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| Section 6.6.4(1)<br>Annex Point IIA 6.6.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | In-vivo mutagenicity study                                                                                                                                                                                   |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1. REFERENCE                                                                                                                                                                                                 | Official use only |
| 1.1 Reference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Author(s), year, title, laboratory name, laboratory report number, report date (if published, list journal name, volume: pages) If necessary, copy field and enter other reference(s).                       |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Kallesen, T. (1985) Assessment of the mutagenic activity of Hyamine 3500 in the mouse micronucleus test. Lab No. LZA 10753. The Scantox Laboratories Ltd. (Unpublished)                                      |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | [Ref No: A24 (LON 1029)]                                                                                                                                                                                     |                   |
| 1.2 Data protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Yes                                                                                                                                                                                                          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (indicate if data protection is claimed)                                                                                                                                                                     |                   |
| 1.2.1 Data owner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Give name of company                                                                                                                                                                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ADBAC Joint Venture                                                                                                                                                                                          |                   |
| 1.2.2 Criteria for data protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Choose one of the following criteria (see also TNsG on Product Evaluation) and delete the others:                                                                                                            |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Data submitted to the MS before 14 May 2000 on existing a.s. for the purpose of its entry into Annex I/IA                                                                                                    |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2. GUIDELINES AND QUALITY ASSURANCE                                                                                                                                                                          |                   |
| 2.1 Guideline study                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Yes                                                                                                                                                                                                          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OECD Test Guideline No. 474, EEC Directive 79/831 Method No. 431                                                                                                                                             |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1985                                                                                                                                                                                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (If yes, give references to the guidelines (for example test number in Annex V of Dir. 67/548/EEC); if no, give justification, e.g. "no guidelines available" or "methods used comparable to guidelines xy") |                   |
| 2.2 GLP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No (GLP not compulsory at the time the study was performed)                                                                                                                                                  |                   |
| (only where required)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (If no, give justification, e.g. state that GLP was not compulsory at the time the study was performed)                                                                                                      |                   |
| 2.3 Deviations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No                                                                                                                                                                                                           |                   |
| ST-1800D The Editorial Collection | (If yes, describe deviations from test guidelines or refer to respective field numbers where these are described, e.g. "see 3.x.y")                                                                          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3. MATERIALS AND METHODS                                                                                                                                                                                     |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | In some fields the values indicated in the EC or OECD test guidelines are given as default values. Adopt, change or delete these default values as appropriate.                                              |                   |
| 3.1 Test material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                              |                   |
| 3.1.1 Lot/Batch number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | List lot/batch number where relevant                                                                                                                                                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                              |                   |

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|        | on 6.6.4(1)<br>Point IIA 6.6.4 | In-vivo mutagenicity study                                                                                                                                                                                                                                                                                     |  |
|--------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 3.1.2  | Specification                  | (describe specification under separate subheadings, such as the following; additional subheadings may be appropriate):                                                                                                                                                                                         |  |
|        |                                | As given in section II of Annex IIA of Directive 98/8/EC, especially Sections 2.6-2.8 therein.                                                                                                                                                                                                                 |  |
|        |                                |                                                                                                                                                                                                                                                                                                                |  |
|        |                                | Active substance (a.s.), alkyl(C <sub>12</sub> -C <sub>16</sub> )dimethylbenzylammonium chloride (ADBAC; CAS RN 68424-85-1), in ethanol solution.                                                                                                                                                              |  |
| 3.1.3  | Description                    | If appropriate, give e.g. colour, physical form (e.g. powder, grain size, particle size/distribution)                                                                                                                                                                                                          |  |
|        |                                |                                                                                                                                                                                                                                                                                                                |  |
| 3.1.4  | Purity                         | Give purity in g/kg, g/l, %w/w or % v/v active substance                                                                                                                                                                                                                                                       |  |
| 3.1.5  | Stability                      | Describe atability of test mentaginal                                                                                                                                                                                                                                                                          |  |
| 5.1.5  | Stability                      | Describe stability of test material                                                                                                                                                                                                                                                                            |  |
|        |                                | The a.s., ADBAC, is hydrolytically and photolytically stable under the conditions of this study and has been shown to be stable in aqueous, alcohol and alcohol/aqueous solutions for extended periods, <i>e.g.</i> at least five years under standard laboratory conditions (see Section 2.6.1 of Annex IIA). |  |
| 3.2 To | est species                    |                                                                                                                                                                                                                                                                                                                |  |
| 3.2.1  | Species                        | Mouse                                                                                                                                                                                                                                                                                                          |  |
| 3.2.2  | Strain                         | Bom:NMRI, GI.Bomholtgard Ltd, DK-8680 Ry                                                                                                                                                                                                                                                                       |  |
| 3.2.3  | Source                         |                                                                                                                                                                                                                                                                                                                |  |
| 3.2.4  | Sex                            | Male and Female                                                                                                                                                                                                                                                                                                |  |
| 3.2.5  | Age/weight at study initiation |                                                                                                                                                                                                                                                                                                                |  |
| 3.2.6  | Number of                      |                                                                                                                                                                                                                                                                                                                |  |
|        | animals<br>per group           |                                                                                                                                                                                                                                                                                                                |  |
| 3.2.7  | Control Animals                |                                                                                                                                                                                                                                                                                                                |  |
| 3.3    | Administration/<br>Exposure    |                                                                                                                                                                                                                                                                                                                |  |
| 3.3.1  | Dose route                     | Oral gavage                                                                                                                                                                                                                                                                                                    |  |
| 3.3.2  | Duration of test/exposure      | Animals sacrificed 24, 48 and 72 hours after dosing                                                                                                                                                                                                                                                            |  |
| 3.3.3  | Concentration                  |                                                                                                                                                                                                                                                                                                                |  |

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|      | tion 6.6.4(1)<br>ex Point IIA 6.6.4 | In-vivo mutagenicity study                                                                                                                                             |  |
|------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 3.3. | 4 Vehicle                           |                                                                                                                                                                        |  |
| 3.3. | 5 Concentration in vehicle          |                                                                                                                                                                        |  |
| 3.3. | 6 Controls                          |                                                                                                                                                                        |  |
| 3.4  | Γest Methods                        |                                                                                                                                                                        |  |
| 3.4. | Pre-sacrifice treatment             |                                                                                                                                                                        |  |
| 3.4. | 2 Cell type                         |                                                                                                                                                                        |  |
|      |                                     | 4. RESULTS                                                                                                                                                             |  |
| 4.1  | Animal observations                 |                                                                                                                                                                        |  |
| 4.1. | 1 Clinical signs                    |                                                                                                                                                                        |  |
| 4.1. | 2 Mortality                         |                                                                                                                                                                        |  |
| 4.2  | Cell observations                   |                                                                                                                                                                        |  |
| 4.2. | 1 Test substance                    | There was no significant increase in the number of micronuclei per thousand polychromatic erythrocytes:                                                                |  |
|      |                                     | Control = 1.0<br>24-Hour Test = 0.8<br>48-Hour Test = 1.1<br>72-Hour Test = 1.0                                                                                        |  |
| 4.2. | 2 Positive control                  | There were significant increases in the number of micronuclei per thousand polychromatic erythrocytes (44.1)                                                           |  |
| 4.3  | Remarks                             | The test substance is not designated as mutagenic in this test system.                                                                                                 |  |
|      |                                     | 5. APPLICANT'S SUMMARY AND CONCLUSION                                                                                                                                  |  |
| 5.1  | Materials and methods               | Give concise description of method; give test guidelines no. and discuss relevant deviations from test guidelines. Comments from 2.1 above are relevant in this table. |  |
|      |                                     |                                                                                                                                                                        |  |
|      |                                     |                                                                                                                                                                        |  |
|      |                                     |                                                                                                                                                                        |  |

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| Annex Point II A 6.6.4  5.2 Results and discussion  Subsections for NOAEL, LOAEL etc. if appropriate Alkyldimethylbenzylammonium Chloride did not cause any increases in the number of micronuclei and is not considered mutagenic in this assay.  5.3.1 Reliability  Based on the assessment of materials and methods include appropriate reliability indicator 0, 1, 2, 3 or 4  5.3.2 Deficiencies  (If yes, discuss the impact of deficiencies and implications on results. If relevant, justify acceptability of study.)  Evaluation by Competent Authorities  Use separate "evaluation boxes" to provide transparency as to the comments of views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 5.3 Conclusion  Subsections for NOAEL, LOAEL etc. if appropriate Alkyldimethylbenzylammonium Chloride did not cause any increases in the number of micronuclei and is not considered mutagenic in this assay.  5.3.1 Reliability  Based on the assessment of materials and methods include appropriate reliability indicator 0, 1, 2, 3 or 4  5.3.2 Deficiencies  (If yes, discuss the impact of deficiencies and implications on results. If relevant, justify acceptability of study.)  Evaluation by Competent Authorities  Use separate "evaluation boxes" to provide transparency as to the comments of views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE                                     |     |
| Alkyldimethylbenzylammonium Chloride did not cause any increases in the number of micronuclei and is not considered mutagenic in this assay.  5.3.1 Reliability  Based on the assessment of materials and methods include appropriate reliability indicator 0, 1, 2, 3 or 4  5.3.2 Deficiencies  (If yes, discuss the impact of deficiencies and implications on results. If relevant, justify acceptability of study.)  Evaluation by Competent Authorities  Use separate "evaluation boxes" to provide transparency as to the comments of views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE                                                                                                      |     |
| Alkyldimethylbenzylammonium Chloride did not cause any increases in the number of micronuclei and is not considered mutagenic in this assay.  5.3.1 Reliability  Based on the assessment of materials and methods include appropriate reliability indicator 0, 1, 2, 3 or 4  5.3.2 Deficiencies  (If yes, discuss the impact of deficiencies and implications on results. If relevant, justify acceptability of study.)  Evaluation by Competent Authorities  Use separate "evaluation boxes" to provide transparency as to the comments of views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE                                                                                                      |     |
| Alkyldimethylbenzylammonium Chloride did not cause any increases in the number of micronuclei and is not considered mutagenic in this assay.  5.3.1 Reliability  Based on the assessment of materials and methods include appropriate reliability indicator 0, 1, 2, 3 or 4  5.3.2 Deficiencies  (If yes, discuss the impact of deficiencies and implications on results. If relevant, justify acceptability of study.)  Evaluation by Competent Authorities  Use separate "evaluation boxes" to provide transparency as to the comments of views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE                                                                                                      |     |
| the number of micronuclei and is not considered mutagenic in this assay.  5.3.1 Reliability  Based on the assessment of materials and methods include appropriate reliability indicator 0, 1, 2, 3 or 4  5.3.2 Deficiencies  (If yes, discuss the impact of deficiencies and implications on results. If relevant, justify acceptability of study.)  Evaluation by Competent Authorities  Use separate "evaluation boxes" to provide transparency as to the comments of views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE                                                                                                                                                                          |     |
| 5.3.2 Deficiencies  (If yes, discuss the impact of deficiencies and implications on results. If relevant, justify acceptability of study.)  Evaluation by Competent Authorities  Use separate "evaluation boxes" to provide transparency as to the comments of views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE                                                                                                                                                                                                                                                                                                                                                                                   |     |
| (If yes, discuss the impact of deficiencies and implications on results. If relevant, justify acceptability of study.)  Evaluation by Competent Authorities  Use separate "evaluation boxes" to provide transparency as to the comments of views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE                                                                                                                                                                                                                                                                                                                                                                                                       |     |
| (If yes, discuss the impact of deficiencies and implications on results. If relevant, justify acceptability of study.)  Evaluation by Competent Authorities  Use separate "evaluation boxes" to provide transparency as to the comments of views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE                                                                                                                                                                                                                                                                                                                                                                                                       |     |
| Evaluation by Competent Authorities  Use separate "evaluation boxes" to provide transparency as to the comments of views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |
| Use separate "evaluation boxes" to provide transparency as to the comments of views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |
| views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | and |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |
| Materials and Methods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |
| Results and discussion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |
| Conclusion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |
| Reliability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |
| Acceptability The study is acceptable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |
| COMMENTS FROM OTHER MEMBER STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |
| Date Give date of the comments submitted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |
| Materials and Methods  Discuss additional relevant discrepancies referring to the (sub)heading number and to applicant's summary and conclusion.  Discuss if deviating from view of rapporteur member state                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ers |
| Results and discussion Discuss if deviating from view of rapporteur member state                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |
| Conclusion Discuss if deviating from view of rapporteur member state                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |

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Rapporteur Member State: Italy

Lonza GmbH; Stepan Europe;

Section 6.6.4(1)
Annex Point IIA 6.6.4

Reliability

Discuss if deviating from view of rapporteur member state

Acceptability

Discuss if deviating from view of rapporteur member state

Lonza GmbH; Stepan Europe;

Mason Europe Limited

| Section 6.6.5<br>Annex Point IIA.6.6.5        | Second in vivo mutagenicity test                                                                                                                                                                                                                                                                                                                                          |                    |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|                                               | JUSTIFICATION FOR NON-SUBMISSION OF DATA                                                                                                                                                                                                                                                                                                                                  | Officia<br>use onl |
|                                               | As outlined in the TNsG on data requirements, the applicant must always be able to justify the suggested exemptions from the data requirements. The justifications are to be included in the respective location (section) of the dossier.  If one of the following reasons is marked, detailed justification has to be given below. General arguments are not acceptable |                    |
| Other existing data [ ]                       | Technically not feasible [ ] Scientifically unjustified [X]                                                                                                                                                                                                                                                                                                               |                    |
| Limited exposure [ ]                          | Other justification [ ]                                                                                                                                                                                                                                                                                                                                                   |                    |
| Detailed justification:                       |                                                                                                                                                                                                                                                                                                                                                                           |                    |
|                                               |                                                                                                                                                                                                                                                                                                                                                                           |                    |
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|                                               |                                                                                                                                                                                                                                                                                                                                                                           |                    |
| CLARITING OF CAT AND ARE SAMERING OF SHARE WE | Give date on which the data will be handed in later (Only acceptable if                                                                                                                                                                                                                                                                                                   |                    |
| Undertaking of intended data submission [ ]   | test or study is already being conducted and the responsible CA has agreed on the delayed data submission.)                                                                                                                                                                                                                                                               |                    |

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Rapporteur Member State: Italy

| Section 6.6.5<br>Annex Point IIA.6.6.5  | Second in vivo mutagenicity test                                                               |
|-----------------------------------------|------------------------------------------------------------------------------------------------|
|                                         | Evaluation by Competent Authorities                                                            |
|                                         | Use separate "evaluation boxes" to provide transparency as to the comments and views submitted |
|                                         | EVALUATION BY RAPPORTEUR MEMBER STATE                                                          |
| Date                                    |                                                                                                |
| Evaluation of applicant's justification |                                                                                                |
| Conclusion                              | The applicant's justification is acceptable                                                    |
| Remarks                                 |                                                                                                |
|                                         | COMMENTS FROM OTHER MEMBER STATE (specify)                                                     |
| Date                                    | Give date of comments submitted                                                                |
| Evaluation of applicant's justification | Discuss if deviating from view of rapporteur member state                                      |
| Conclusion                              | Discuss if deviating from view of rapporteur member state                                      |
| Remarks                                 |                                                                                                |

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| Section 6.6.6<br>Annex Point IIA.6.6.6         | Germ cell effects                                                                                                                                                                                                                                                                                                                                                         |                      |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
|                                                | JUSTIFICATION FOR NON-SUBMISSION OF DATA                                                                                                                                                                                                                                                                                                                                  | Official<br>use only |
|                                                | As outlined in the TNsG on data requirements, the applicant must always be able to justify the suggested exemptions from the data requirements. The justifications are to be included in the respective location (section) of the dossier.  If one of the following reasons is marked, detailed justification has to be given below. General arguments are not acceptable |                      |
| Other existing data [ ]                        | Technically not feasible [ ] Scientifically unjustified [X]                                                                                                                                                                                                                                                                                                               |                      |
| Limited exposure [ ]                           | Other justification [ ]                                                                                                                                                                                                                                                                                                                                                   |                      |
| Detailed justification:                        |                                                                                                                                                                                                                                                                                                                                                                           |                      |
|                                                |                                                                                                                                                                                                                                                                                                                                                                           |                      |
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| Undertaking of intended<br>data submission [ ] | Give date on which the data will be handed in later (Only acceptable if test or study is already being conducted and the responsible CA has agreed on the delayed data submission.)                                                                                                                                                                                       |                      |
|                                                | Evaluation by Competent Authorities                                                                                                                                                                                                                                                                                                                                       |                      |
|                                                | Use separate "evaluation boxes" to provide transparency as to the comments and views submitted                                                                                                                                                                                                                                                                            |                      |
|                                                | EVALUATION BY RAPPORTEUR MEMBER STATE                                                                                                                                                                                                                                                                                                                                     |                      |
| Date                                           |                                                                                                                                                                                                                                                                                                                                                                           |                      |
| Evaluation of applicant's justification        |                                                                                                                                                                                                                                                                                                                                                                           |                      |
| Conclusion                                     | The applicant's justification is acceptable                                                                                                                                                                                                                                                                                                                               |                      |
| Remarks                                        |                                                                                                                                                                                                                                                                                                                                                                           |                      |
|                                                | COMMENTS FROM OTHER MEMBER STATE (specify)                                                                                                                                                                                                                                                                                                                                |                      |
| Date                                           | Give date of comments submitted                                                                                                                                                                                                                                                                                                                                           |                      |

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| Section 6.6.6<br>Annex Point IIA.6.6.6  | Germ cell effects                                         |
|-----------------------------------------|-----------------------------------------------------------|
| Evaluation of applicant's justification | Discuss if deviating from view of rapporteur member state |
| Conclusion                              | Discuss if deviating from view of rapporteur member state |
| Remarks                                 |                                                           |

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| Section 6.6.7<br>Annex Point IIA.6.6.7         | Further genetic toxicity tests on metabolites of concern                                                                                                                                                                                                                                                                                                                  |                   |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
|                                                | JUSTIFICATION FOR NON-SUBMISSION OF DATA                                                                                                                                                                                                                                                                                                                                  | Official use only |
|                                                | As outlined in the TNsG on data requirements, the applicant must always be able to justify the suggested exemptions from the data requirements. The justifications are to be included in the respective location (section) of the dossier.  If one of the following reasons is marked, detailed justification has to be given below. General arguments are not acceptable |                   |
| Other existing data [ ]                        | Technically not feasible [ ] Scientifically unjustified [X]                                                                                                                                                                                                                                                                                                               |                   |
| Limited exposure [ ]                           | Other justification [ ]                                                                                                                                                                                                                                                                                                                                                   |                   |
| Detailed justification:                        |                                                                                                                                                                                                                                                                                                                                                                           |                   |
|                                                |                                                                                                                                                                                                                                                                                                                                                                           |                   |
|                                                |                                                                                                                                                                                                                                                                                                                                                                           |                   |
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|                                                |                                                                                                                                                                                                                                                                                                                                                                           |                   |
|                                                |                                                                                                                                                                                                                                                                                                                                                                           |                   |
|                                                |                                                                                                                                                                                                                                                                                                                                                                           |                   |
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|                                                |                                                                                                                                                                                                                                                                                                                                                                           |                   |
|                                                |                                                                                                                                                                                                                                                                                                                                                                           |                   |
|                                                |                                                                                                                                                                                                                                                                                                                                                                           |                   |
|                                                |                                                                                                                                                                                                                                                                                                                                                                           |                   |
| Undertaking of intended<br>data submission [ ] | Give date on which the data will be handed in later (Only acceptable if test or study is already being conducted and the responsible CA has agreed on the delayed data submission.)                                                                                                                                                                                       |                   |
|                                                | <b>Evaluation by Competent Authorities</b>                                                                                                                                                                                                                                                                                                                                |                   |
|                                                | Use separate "evaluation boxes" to provide transparency as to the comments and views submitted                                                                                                                                                                                                                                                                            |                   |
|                                                | EVALUATION BY RAPPORTEUR MEMBER STATE                                                                                                                                                                                                                                                                                                                                     |                   |
| Date                                           |                                                                                                                                                                                                                                                                                                                                                                           |                   |
| Evaluation of applicant's justification        |                                                                                                                                                                                                                                                                                                                                                                           |                   |
| Conclusion                                     | The applicant's justification is acceptable                                                                                                                                                                                                                                                                                                                               |                   |
| Remarks                                        |                                                                                                                                                                                                                                                                                                                                                                           |                   |

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| Section 6.6.7<br>Annex Point IIA.6.6.7  | Further genetic toxicity tests on metabolites of concern  |
|-----------------------------------------|-----------------------------------------------------------|
|                                         | COMMENTS FROM OTHER MEMBER STATE (specify)                |
| Date                                    | Give date of comments submitted                           |
| Evaluation of applicant's justification | Discuss if deviating from view of rapporteur member state |
| Conclusion                              | Discuss if deviating from view of rapporteur member state |
| Remarks                                 |                                                           |

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|                   | on 6.7(1)<br>Point IIA 6.7                                               | Carcinogenicity study in mice                                                                                                                                                                                                           |                   |
|-------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
|                   |                                                                          | 1. REFERENCE                                                                                                                                                                                                                            | Official use only |
| 1.1 R             | eference                                                                 | Gill, M.W., Hermansky, S.J. and Wagner, C.L. (1991) Chronic dietary oncogenicity study with Alkyldimethylbenzylammonium Chloride in mice. Report No: 53-515. Union Carbide, Bushy Run Research Center, Export, PA, U.S.A. (Unpublished) |                   |
|                   |                                                                          | [Ref No. A83 (LON 1886)]                                                                                                                                                                                                                |                   |
| 1.2 D             | ata protection                                                           | Yes                                                                                                                                                                                                                                     |                   |
| 1.2.1             | Data owner                                                               | ADBAC Joint Venture                                                                                                                                                                                                                     |                   |
| 1.2.2             | Criteria for data protection                                             | Data submitted to the MS before 14 May 2000 on existing a.s. for the purpose of its entry into Annex I/IA                                                                                                                               |                   |
|                   |                                                                          | 2. GUIDELINES AND QUALITY ASSURANCE                                                                                                                                                                                                     |                   |
| 2.1               | Guideline study                                                          | Yes                                                                                                                                                                                                                                     |                   |
|                   |                                                                          | U.S. EPA FIFRA 83-2                                                                                                                                                                                                                     |                   |
|                   |                                                                          | 1991                                                                                                                                                                                                                                    |                   |
| 2.2<br>(only w    | GLP<br>vhere required)                                                   | Yes                                                                                                                                                                                                                                     |                   |
| 2.3               | Deviations                                                               | No                                                                                                                                                                                                                                      |                   |
|                   |                                                                          | 3. MATERIALS AND METHODS                                                                                                                                                                                                                |                   |
| 3.1 T             | est material                                                             | Alkyldimethylbenzylammonium Chloride                                                                                                                                                                                                    | X                 |
| axie-active convi | t recommend of the fact, and the commendation of the factors are stated. | 1 meg tamine any too meg tamine and a meet a contract                                                                                                                                                                                   |                   |
| 3.1.1             | Lot/Batch number                                                         |                                                                                                                                                                                                                                         |                   |
| 3.1.2             | Specification                                                            | As given in section II of Annex IIA of Directive 98/8/EC, especially Sections 2.6-2.8 therein.                                                                                                                                          | X                 |
|                   |                                                                          | Active substance (a.s.), alkyl( $C_{12}$ - $C_{16}$ )dimethylbenzylammonium chloride (ADBAC; CAS RN 68424-85-1), in aqueous/ethanol solution.                                                                                           |                   |
| 3.1.3             | Description                                                              |                                                                                                                                                                                                                                         |                   |
| 3.1.4             | Purity                                                                   |                                                                                                                                                                                                                                         |                   |
| 3.1.5             | Stability                                                                | Stable                                                                                                                                                                                                                                  | X                 |
| 3.2 T             | est animals                                                              |                                                                                                                                                                                                                                         |                   |
| 3.2.1             | Species                                                                  | Mouse                                                                                                                                                                                                                                   |                   |

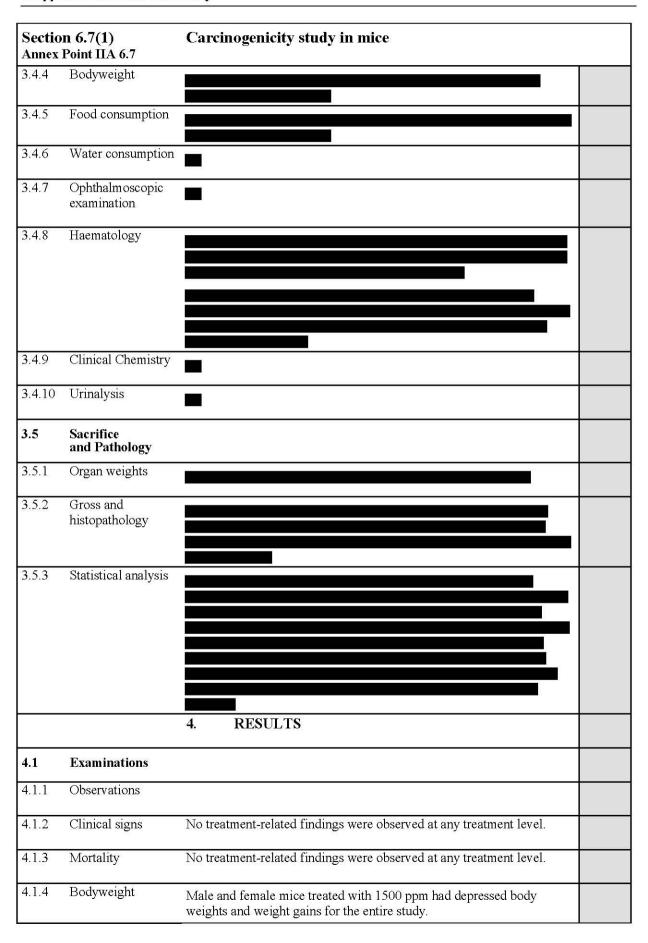
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| 3.2.2 Strain CD-1 3.2.3 Source 3.2.4 Sex Male and female 3.2.5 Age/weight at study initiation 3.2.6 Number of animals per group 3.2.7 Satellite group(s) 3.2.8 Control Animals 3.3 Administration/Exposure 3.3.1 Dose route Oral by diet Duration of test/exposure 78 weeks 3.3.3 Frequency of exposure period 3.3.4 Post exposure period 3.3.5 Concentration 3.3.6 Vehicle 3.3.8 Actual dose received 3.3.9 Controls 3.4 Examinations 3.4.1 Observations 3.4.2 Clinical signs 3.4.3 Mortality | Section Annex | on 6.7(1)<br>Point IIA 6.7     | Carcinogenicity study in mice |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------|-------------------------------|---|
| 3.2.4 Sex Male and female  3.2.5 Age/weight at study initiation  3.2.6 Number of animals per group  3.2.7 Satellite group(s)  3.2.8 Control Animals  3.3 Administration/Exposure  3.3.1 Dose route Oral by diet  Duration of test/exposure 78 weeks  3.3.3 Frequency of exposure 7 days/week  3.3.4 Post exposure  3.3.5 Concentration  3.3.6 Vehicle  3.3.8 Actual dose received  3.3.9 Controls  3.4 Examinations  3.4.1 Observations  3.4.2 Clinical signs                                  | 3.2.2         | Strain                         | CD-1                          |   |
| 3.2.5 Age/weight at study initiation  3.2.6 Number of animals per group  3.2.7 Satellite group(s)  3.2.8 Control Animals  3.3 Administration/Exposure  3.3.1 Dose route Oral by diet  Duration of test/exposure  78 weeks  3.3.3 Frequency of exposure period  3.3.4 Post exposure period  3.3.5 Concentration  3.3.6 Vehicle  3.3.8 Actual dose received  3.3.9 Controls  3.4 Examinations  3.4.1 Observations  3.4.2 Clinical signs                                                          | 3.2.3         | Source                         |                               |   |
| study initiation  3.2.6 Number of animals per group  3.2.7 Satellite group(s)  3.2.8 Control Animals  3.3 Administration/ Exposure  3.3.1 Dose route Oral by diet  Duration of test/exposure 78 weeks  3.3.3 Frequency of exposure exposure period  3.3.4 Post exposure period  3.3.5 Concentration  3.3.6 Vehicle  3.3.8 Actual dose received  3.3.9 Controls  3.4 Examinations  3.4.1 Observations  3.4.2 Clinical signs                                                                     | 3.2.4         | Sex                            | Male and female               |   |
| animals per group  3.2.7 Satellite group(s)  3.2.8 Control Animals  3.3 Administration/ Exposure  3.3.1 Dose route Oral by diet  Duration of test/exposure 78 weeks  3.3.3 Frequency of exposure period  3.3.4 Post exposure period  3.3.5 Concentration  3.3.6 Vehicle  3.3.8 Actual dose received  3.3.9 Controls  3.4 Examinations  3.4.1 Observations  3.4.2 Clinical signs                                                                                                                | 3.2.5         | Age/weight at study initiation |                               |   |
| 3.2.8 Control Animals  3.3 Administration/Exposure 3.3.1 Dose route Oral by diet  Duration of test/exposure 78 weeks  3.3.3 Frequency of exposure period  3.3.4 Post exposure  3.3.5 Concentration  3.3.6 Vehicle  3.3.8 Actual dose received  3.3.9 Controls  3.4 Examinations  3.4.1 Observations  3.4.2 Clinical signs                                                                                                                                                                      | 3.2.6         |                                |                               |   |
| 3.3.1 Dose route Oral by diet  Duration of test/exposure 78 weeks  3.3.3 Frequency of exposure period  3.3.4 Post exposure period  3.3.5 Concentration  3.3.6 Vehicle  3.3.8 Actual dose received  3.3.9 Controls  3.4 Examinations  3.4.1 Observations  3.4.2 Clinical signs                                                                                                                                                                                                                  | 3.2.7         | Satellite group(s)             |                               |   |
| Exposure  3.3.1 Dose route Oral by diet  Duration of test/exposure 78 weeks  3.3.3 Frequency of exposure period  3.3.4 Post exposure period  3.3.5 Concentration  3.3.6 Vehicle  3.3.8 Actual dose received  3.3.9 Controls  3.4 Examinations  3.4.1 Observations  3.4.2 Clinical signs                                                                                                                                                                                                        | 3.2.8         | Control Animals                |                               |   |
| Duration of test/exposure 78 weeks  3.3.3 Frequency of exposure 7 days/week  3.3.4 Post exposure period  3.3.5 Concentration  3.3.6 Vehicle  3.3.8 Actual dose received  3.3.9 Controls  3.4 Examinations  3.4.1 Observations  3.4.2 Clinical signs                                                                                                                                                                                                                                            | 3.3           |                                |                               |   |
| 3.3.3 Frequency of exposure  3.3.4 Post exposure period  3.3.5 Concentration  3.3.6 Vehicle  3.3.8 Actual dose received  3.3.9 Controls  3.4 Examinations  3.4.1 Observations  3.4.2 Clinical signs                                                                                                                                                                                                                                                                                            | 3.3.1         | Dose route                     | Oral by diet                  |   |
| a.3.4 Post exposure period  3.3.5 Concentration  3.3.6 Vehicle  3.3.8 Actual dose received  3.3.9 Controls  3.4 Examinations  3.4.1 Observations  3.4.2 Clinical signs                                                                                                                                                                                                                                                                                                                         | Duratio       | on of test/exposure            | 78 weeks                      |   |
| period  3.3.5 Concentration  3.3.6 Vehicle  3.3.8 Actual dose received  3.3.9 Controls  3.4 Examinations  3.4.1 Observations  3.4.2 Clinical signs                                                                                                                                                                                                                                                                                                                                             | 3.3.3         |                                | 7 days/week                   |   |
| 3.3.6 Vehicle  3.3.8 Actual dose received  3.3.9 Controls  3.4 Examinations  3.4.1 Observations  3.4.2 Clinical signs                                                                                                                                                                                                                                                                                                                                                                          | 3.3.4         |                                |                               |   |
| 3.3.8 Actual dose received  3.3.9 Controls  3.4 Examinations  3.4.1 Observations  3.4.2 Clinical signs                                                                                                                                                                                                                                                                                                                                                                                         | 3.3.5         | Concentration                  |                               |   |
| received  3.3.9 Controls  3.4 Examinations  3.4.1 Observations  3.4.2 Clinical signs                                                                                                                                                                                                                                                                                                                                                                                                           | 3.3.6         | Vehicle                        |                               | 7 |
| 3.4 Examinations  3.4.1 Observations  3.4.2 Clinical signs                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3.3.8         |                                |                               |   |
| 3.4.1 Observations  3.4.2 Clinical signs                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.3.9         | Controls                       |                               |   |
| 3.4.2 Clinical signs                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.4           | Examinations                   |                               |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.4.1         | Observations                   |                               |   |
| 3.4.3 Mortality                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.4.2         | Clinical signs                 |                               |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.4.3         | Mortality                      |                               |   |

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| Section 6.7(1) Carcinogenicity study in mice Annex Point IIA 6.7 |                             | Carcinogenicity study in mice                                                         |   |
|------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|---|
| 4.1.5                                                            | Food consumption            | No treatment-related findings were observed at any treatment level.                   |   |
| 4.1.6                                                            | Water consumption           |                                                                                       |   |
| 4.1.7                                                            | Ophthalmoscopic examination |                                                                                       |   |
| 4.1.8                                                            | Haematology                 | No treatment-related findings were observed at any treatment level.                   |   |
| 4.1.9                                                            | Clinical Chemistry          |                                                                                       |   |
| 4.1.10                                                           | Urinalysis                  |                                                                                       |   |
| 4.2                                                              | Sacrifice and<br>Pathology  |                                                                                       |   |
| 4.2.1                                                            | Organ weights               | No treatment-related findings were observed at any treatment level.                   |   |
| 4.2.2                                                            | Gross and<br>Histopathology | No treatment-related findings were observed at any treatment level.                   |   |
| 4.2.3                                                            | Statistical analysis        | As described above                                                                    |   |
| 4.3                                                              | LOAEL                       |                                                                                       | X |
| 4.4                                                              | NOAEL                       | NOAEL = 500 ppm equivalent to 73 and 92 mg/kg/day for males and females respectively. | X |
|                                                                  |                             | 5. APPLICANT'S SUMMARY AND CONCLUSION                                                 |   |
|                                                                  | Materials and<br>methods    |                                                                                       | X |
|                                                                  | Results and<br>discussion   |                                                                                       |   |

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Rapporteur Member State: Italy

| Section 6.7(1)<br>Annex Point IIA 6.7 | Carcinogenicity study in mice                                                                                                                                                                            |   |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 5.3 Conclusion                        | NOEL = 500 ppm equivalent to 73 and 92 mg/kg/day for males and females respectively.  The test substance is not considered to be carcinogenic in this strain of mice under the conditions of this study. |   |
| 5.3.1 Reliability                     |                                                                                                                                                                                                          |   |
| 5.3.2 Deficiencies                    |                                                                                                                                                                                                          |   |
|                                       | Evaluation by Competent Authorities                                                                                                                                                                      |   |
|                                       | EVALUATION BY RAPPORTEUR MEMBER STATE                                                                                                                                                                    |   |
| Date                                  |                                                                                                                                                                                                          |   |
| Materials and Methods                 |                                                                                                                                                                                                          | - |
| Results and discussion                |                                                                                                                                                                                                          |   |

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| Section 6.7(1)<br>Annex Point IIA 6.7 | Carcinogenicity study in mice                                                                                                                                                         |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conclusion                            |                                                                                                                                                                                       |
|                                       |                                                                                                                                                                                       |
|                                       |                                                                                                                                                                                       |
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|                                       |                                                                                                                                                                                       |
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|                                       |                                                                                                                                                                                       |
|                                       |                                                                                                                                                                                       |
|                                       |                                                                                                                                                                                       |
|                                       |                                                                                                                                                                                       |
| Reliability                           |                                                                                                                                                                                       |
| Acceptability                         | Acceptable                                                                                                                                                                            |
| Remarks                               |                                                                                                                                                                                       |
|                                       | COMMENTS FROM OTHER MEMBER STATE                                                                                                                                                      |
| Date                                  | Give date of the comments submitted                                                                                                                                                   |
| Materials and Methods                 | Discuss additional relevant discrepancies referring to the (sub)heading numbers and to applicant's summary and conclusion.  Discuss if deviating from view of rapporteur member state |
| Results and discussion                | Discuss if deviating from view of rapporteur member state                                                                                                                             |
| Conclusion                            | Discuss if deviating from view of rapporteur member state                                                                                                                             |
| Reliability                           | Discuss if deviating from view of rapporteur member state                                                                                                                             |
| Acceptability                         | Discuss if deviating from view of rapporteur member state                                                                                                                             |

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|       | tion 6.7(2)<br>ex Point IIA 6.7                                                              | Carcinogenicity study in rats                                                                                                                                                                                                                                                                                  |                      |
|-------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
|       |                                                                                              | 1. REFERENCE                                                                                                                                                                                                                                                                                                   | Official<br>use only |
| 1.1   | Reference                                                                                    | Gill, M.W., Hermansky, S. J. and Wagner, C.L. (1991) Chronic dietary toxicity/oncogenicity study with alkyl dimethyl benzyl ammonium Chloride (ADBAC) in rats. Report No. 53-543. Bushy Run Research Center, Export, PA, U.S. (Unpublished)                                                                    |                      |
|       |                                                                                              | [Ref No. A21 (LON 1882)]                                                                                                                                                                                                                                                                                       |                      |
| 1.2   | Data protection                                                                              | Yes                                                                                                                                                                                                                                                                                                            |                      |
| Data  | owner                                                                                        | ADBAC Joint Venture                                                                                                                                                                                                                                                                                            |                      |
| Crite | eria for data protection                                                                     | Data submitted to the MS before 14 May 2000 on existing a.s. for the purpose of its entry into Annex $I/IA$                                                                                                                                                                                                    |                      |
|       |                                                                                              | 2. GUIDELINES AND QUALITY ASSURANCE                                                                                                                                                                                                                                                                            |                      |
| 2.1   | Guideline study                                                                              | Yes                                                                                                                                                                                                                                                                                                            |                      |
|       | electric desirabilità del consecucionalistato i sensitivo di sustanti del segui minimi di se | USEPA Guideline 83-5;                                                                                                                                                                                                                                                                                          |                      |
|       |                                                                                              | OECD Guideline 453                                                                                                                                                                                                                                                                                             |                      |
|       |                                                                                              | 1991                                                                                                                                                                                                                                                                                                           |                      |
| 2.2   | GLP                                                                                          | Yes                                                                                                                                                                                                                                                                                                            |                      |
|       | y where required)                                                                            |                                                                                                                                                                                                                                                                                                                |                      |
| 2.3   | Deviations                                                                                   | No                                                                                                                                                                                                                                                                                                             |                      |
|       |                                                                                              | 3 MATERIALS AND METHODS                                                                                                                                                                                                                                                                                        |                      |
| 3.1   | Test material                                                                                | Alkyldimethylbenzylammonium Chloride                                                                                                                                                                                                                                                                           | X                    |
| 3.1.1 | Lot/Batch number                                                                             |                                                                                                                                                                                                                                                                                                                |                      |
| 3.1.2 | 2 Specification                                                                              | As given in section II of Annex IIA of Directive 98/8/EC, especially Sections 2.6-2.8 therein.                                                                                                                                                                                                                 | X                    |
|       |                                                                                              | Active substance (a.s.), alkyl(C <sub>12</sub> -C <sub>16</sub> )dimethylbenzylammonium chloride (ADBAC; CAS RN 68424-85-1), in aqueous/ethanol solution.                                                                                                                                                      |                      |
| 3.1.3 | 3 Description                                                                                |                                                                                                                                                                                                                                                                                                                |                      |
| 3.1.4 | 4 Purity                                                                                     |                                                                                                                                                                                                                                                                                                                |                      |
| 3.1.5 | 5 Stability                                                                                  | The a.s., ADBAC, is hydrolytically and photolytically stable under the conditions of this study and has been shown to be stable in aqueous, alcohol and alcohol/aqueous solutions for extended periods, <i>e.g.</i> at least five years under standard laboratory conditions (see Section 2.6.1 of Annex IIA). |                      |

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| Section 6.7(2)<br>Annex Point IIA 6.7 |                                | Carcinogenicity study in rats |  |
|---------------------------------------|--------------------------------|-------------------------------|--|
| 3.2                                   | Test animals                   |                               |  |
| 3.2.1                                 | Species                        | Rat                           |  |
| 3.2.2                                 | Strain                         | Sprague-Dawley CD             |  |
| 3.2.3                                 | Source                         |                               |  |
| 3.2.4                                 | Sex                            | Male and female               |  |
| 3.2.5                                 | Age/weight at study initiation |                               |  |
| 3.2.6                                 | Number of a nimals per group   |                               |  |
| 3.2.7                                 | Satellite group(s)             |                               |  |
| 3.2.8                                 | Control Animals                |                               |  |
| 3.3                                   | Administration/<br>Exposure    |                               |  |
| 3.3.1                                 | Route of exposure              | Oral by diet                  |  |
| 3.3.2                                 | Duration of treatment          | 24 months (104 weeks)         |  |
| 3.3.3                                 | Frequency of exposure          | 7 days/week                   |  |
| 3.3.4                                 | Post exposure period           |                               |  |
| 3.3.5                                 | Concentration                  |                               |  |
| 3.3.6                                 | Vehicle                        |                               |  |
| 3.3.7                                 | Total volume applied           |                               |  |
| 3.3.8                                 | Controls                       |                               |  |
| 3.4                                   | Examinations                   |                               |  |
| 3.4.1                                 | Observations                   |                               |  |
| 3.4.2                                 | Clinical signs                 |                               |  |

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| Section 6.7(2)<br>Annex Point IIA 6.7 |                             | Carcinogenicity study in rats                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|---------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                       |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 3.4.3                                 | Mortality                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                       | 236.0                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 3.4.4                                 | Bodyweight                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 3.4.5                                 | Food consumption            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 3.4.6                                 | Water consumption           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 3.4.7                                 | Ophthalmoscopic examination |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 3.4.8                                 | Haematology                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 3.4.9                                 | Clinical Chemistry          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 3.4.10                                | Urinalysis                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 3.4.11                                | Remarks                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 3.5                                   | Sacrifice and pathology     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 3.5.1                                 | Organ weights               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 3.5.2                                 | Gross and<br>histopathology |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 3.5.3                                 | Other examinations          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 3.5.4                                 | Statistics                  | 4 RESULTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| 4.1                                   | Examinations                | TES SELECTION OF CONTROL OF CONTR |  |
| 4.1.1                                 | Observations                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |

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| Section 6.7(2) |                             | Carcinogenicity study in rats                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |
|----------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Annex          | Point IIA 6.7               | • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |
| 4.1.2          | Clinical signs              | An increased incidence of loose faeces was noted in the male rats in all groups treated with the test substance. Based upon previous 14-day and 90-day dietary studies with the test substance, the increased incidence of loose faeces in this study was considered potentially treatment-related, but was not considered biologically significant due to the lack of a dose response relationship in incidence, the infrequent nature of the observation throughout all dose groups, and the lack of histological changes in the digestive tract. There were no other clinical signs observed in male rats considered to be treatment-related. No clinical signs observed in the female rats were considered to be related to treatment with test substance. | X |
| 4.1.3          | Mortality                   | No treatment-related findings were observed at any treatment level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |
| 4.1.4          | Body weight gain            | The mean absolute body weights of the 2000 ppm group male and female rats were statistically significantly decreased at most measurement periods from Week 1 to Week 26 (male) and Week 1 to 60 (female) and, while not consistently statistically significant, remained decreased throughout the study. On a percentage basis, the differences from the control ranged between 4 -5 % in males and 6 - 9% in females from Weeks 13 - 104.                                                                                                                                                                                                                                                                                                                     | X |
| 4.1.5          | Food consumption            | There appeared to be a depression in food consumption in the male rats in the 1000 ppm treatment group during the first few months of the study. However, because of the small and transient nature of this finding, no toxicological significance was attributed to it.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | X |
| 4.1.6          | Water consumption           | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |
| 4.1.7          | Ophthalmoscopic examination | No treatment-related effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |
| 4.1.8          | Haematology                 | No treatment-related effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |
| 4.1.9          | Clinical chemistry          | No treatment-related effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |
| 4.1.10         | Urinalysis                  | No treatment-related effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |
| 4.2            | Sacrifice and pathology     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| 4.2.1          | Organ weights               | No treatment-related effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |
| 4.2.2          | Gross and<br>histopathology | No treatment-related effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |
| 4.2.3          | Other examinations          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| 4.2.4          | Statistical analysis        | As noted above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |
| 4.3            | LO(A)EL                     | 2000 ppm (approximately 102 mg/kg/day)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | X |
| 4.4            | NO(A)EL                     | NOAEL=1000 ppm (approximately 50 mg/kg/day) for toxicity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | X |

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| Section 6.7(2)<br>Annex Point IIA 6.7 | Carcinogenicity study in rats                                                                 |  |
|---------------------------------------|-----------------------------------------------------------------------------------------------|--|
|                                       | The NOAEL for carcinogenicity is >2000 ppm (approximately 102 mg/kg/day)                      |  |
|                                       | 5 APPLICANT'S SUMMARY AND CONCLUSION                                                          |  |
| 5.1 Materials and methods             |                                                                                               |  |
| 5.2 Results and discussion            |                                                                                               |  |
| 5.3 Conclusion                        | NOAEL = 1000 ppm (approximately 50 mg/kg/day) for toxicity                                    |  |
|                                       | Alkyldimethylbenzylammonium Chloride was not carcinogenic under the conditions of this study. |  |
| 5.3.1 Reliability                     |                                                                                               |  |
| 5.3.2 Deficiencies                    |                                                                                               |  |
|                                       | Evaluation by Competent Authorities                                                           |  |
|                                       | EVALUATION BY RAPPORTEUR MEMBER STATE                                                         |  |
| Date                                  |                                                                                               |  |

Lonza GmbH; Stepan Europe; Alkyl (C<sub>12-16</sub>) dimethylbenzyl ammonium chloride September 2012

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| Section 6.7(2)<br>Annex Point IIA 6.7 | Carcinogenicity study in rats |
|---------------------------------------|-------------------------------|
| Materials and Methods                 |                               |
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| Results and discussion                |                               |
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| Conclusion                            |                               |
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| D. N. 1.000                           |                               |
| Reliability                           |                               |
| Acceptability                         | Acceptable                    |

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| Section 6.7(2)<br>Annex Point IIA 6.7 | Carcinogenicity study in rats                                                                                                                                                         |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks                               |                                                                                                                                                                                       |
|                                       | COMMENTS FROM OTHER MEMBER STATE                                                                                                                                                      |
| Date                                  | Give date of the comments submitted                                                                                                                                                   |
| Materials and Methods                 | Discuss additional relevant discrepancies referring to the (sub)heading numbers and to applicant's summary and conclusion.  Discuss if deviating from view of rapporteur member state |
| Results and discussion                | Discuss if deviating from view of rapporteur member state                                                                                                                             |
| Conclusion                            | Discuss if deviating from view of rapporteur member state                                                                                                                             |
| Reliability                           | Discuss if deviating from view of rapporteur member state                                                                                                                             |
| Acceptability                         | Discuss if deviating from view of rapporteur member state                                                                                                                             |

Lonza GmbH; Stepan Europe; Alkyl (C<sub>12-16</sub>) dimethylbenzyl ammonium chloride September 2012

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Rapporteur Member State: Italy

Lonza GmbH; Stepan Europe;

## Section 6.8 Reproductive toxicity Annex point IIA – headline only

| Section 6.8.1(1)<br>Annex Point IIA 6.8.1 |                              | Teratogenicity test in rats                                                                                                                                                                                                                                            |                      |
|-------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
|                                           |                              | 1. REFERENCE                                                                                                                                                                                                                                                           | Official<br>use only |
| 1.1                                       | Reference                    | Author(s), year, title, laboratory name, laboratory report number, report date (if published, list journal name, volume: pages) If necessary, copy field and enter other reference(s).                                                                                 |                      |
|                                           |                              | Neeper-Bradley, T.L. (1992) Developmental toxicity evaluation II of Alkyldimethylbenzylammonium Chloride (ADBAC) administered by gavage to CD® rats. Project No: 91N0031. Union Carbide, Bushy Run Research Center, Mellon Road, Export, PA 15632, USA. (Unpublished). |                      |
|                                           |                              | [Ref Nos A26 and A26a (LON 3241)]                                                                                                                                                                                                                                      |                      |
| 1.2                                       | Data protection              | Yes                                                                                                                                                                                                                                                                    |                      |
|                                           |                              | (indicate if data protection is claimed)                                                                                                                                                                                                                               |                      |
| 1.2.1                                     | Data owner                   | Give name of company                                                                                                                                                                                                                                                   |                      |
|                                           |                              | ADBAC Joint Venture                                                                                                                                                                                                                                                    |                      |
| 1.2.2                                     | Criteria for data protection | Choose one of the following criteria (see also TNsG on Product Evaluation) and delete the others:                                                                                                                                                                      |                      |
|                                           |                              | Data submitted to the MS before 14 May 2000 on existing a.s. for the purpose of its entry into Annex $\rm I/IA$                                                                                                                                                        |                      |
|                                           |                              | 2. GUIDELINES AND QUALITY ASSURANCE                                                                                                                                                                                                                                    |                      |
| 2.1                                       | Guideline study              | Yes                                                                                                                                                                                                                                                                    |                      |
|                                           |                              | U.S. EPA Guideline 83-3; OECD Guideline 414                                                                                                                                                                                                                            |                      |
|                                           |                              | 1992                                                                                                                                                                                                                                                                   |                      |
|                                           |                              | (If yes, give references to the guidelines (for example test number in Annex V of Dir. 67/548/EEC); if no, give justification, e.g. "no guidelines available" or "methods used comparable to guidelines xy")                                                           |                      |
| 2.2                                       | GLP                          | Yes                                                                                                                                                                                                                                                                    |                      |
| (only w                                   | vhere required)              | (If no, give justification, e.g. state that GLP was not compulsory at the time the study was performed)                                                                                                                                                                |                      |
| 2.3                                       | Deviations                   | No                                                                                                                                                                                                                                                                     |                      |
|                                           |                              | (If yes, describe deviations from test guidelines or refer to respective field numbers where these are described, e.g. "see 3.x.y")                                                                                                                                    |                      |
|                                           |                              | 3. MATERIALS AND METHODS                                                                                                                                                                                                                                               |                      |
|                                           |                              | In some fields the values indicated in the EC or OECD test guidelines are given as default values. Adopt, change or delete these default values as appropriate.                                                                                                        |                      |
| 3.1                                       | Test material                | Alkyldimethylbenzylammonium Chloride                                                                                                                                                                                                                                   |                      |
| 3.1.1                                     | Lot/Batch number             | List lot/batch number where relevant                                                                                                                                                                                                                                   |                      |

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| Section 6.8.1(1)<br>Annex Point IIA 6.8.1 |                                | Teratogenicity test in rats                                                                                                                                                                                                                                                                                    |   |
|-------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                           |                                |                                                                                                                                                                                                                                                                                                                |   |
| 3.1.2                                     | Specification                  | (describe specification under separate subheadings, such as the following; additional subheadings may be appropriate):                                                                                                                                                                                         |   |
|                                           |                                | As given in section II of Annex IIA of Directive 98/8/EC, especially Sections 2.6-2.8 therein.                                                                                                                                                                                                                 |   |
|                                           |                                | Active substance (a.s.), alkyl(C <sub>12</sub> -C <sub>16</sub> )dimethylbenzylammonium chloride (ADBAC; CAS RN 68424-85-1), in aqueous/ethanol solution.                                                                                                                                                      |   |
| 3.1.3                                     | Description                    | If appropriate, give e.g. colour, physical form (e.g. powder, grain size, particle size/distribution)                                                                                                                                                                                                          |   |
| 2 1 4                                     | D't                            |                                                                                                                                                                                                                                                                                                                | v |
| 3.1.4                                     | Purity                         | Give purity in g/kg, g/l, %w/w or % v/v active substance                                                                                                                                                                                                                                                       | X |
|                                           |                                |                                                                                                                                                                                                                                                                                                                |   |
| 3.1.5                                     | Stability                      | Describe stability of test material                                                                                                                                                                                                                                                                            |   |
|                                           |                                | The a.s., ADBAC, is hydrolytically and photolytically stable under the conditions of this study and has been shown to be stable in aqueous, alcohol and alcohol/aqueous solutions for extended periods, <i>e.g.</i> at least five years under standard laboratory conditions (see Section 2.6.1 of Annex IIA). |   |
| 3.2                                       | Test Animals                   |                                                                                                                                                                                                                                                                                                                |   |
| 3.2.1                                     | Species                        | Rat                                                                                                                                                                                                                                                                                                            |   |
| 3.2.2                                     | Strain                         | Sprague Dawley                                                                                                                                                                                                                                                                                                 |   |
| 3.2.3                                     | Source                         |                                                                                                                                                                                                                                                                                                                |   |
| 3.2.4                                     | Sex                            | Female                                                                                                                                                                                                                                                                                                         |   |
| 3.2.5                                     | Age/weight at study initiation |                                                                                                                                                                                                                                                                                                                |   |
| 3.2.6                                     | Number of                      |                                                                                                                                                                                                                                                                                                                |   |
| animal                                    | s per group                    |                                                                                                                                                                                                                                                                                                                |   |
| 3.2.7                                     | Control animals                |                                                                                                                                                                                                                                                                                                                |   |
| 3.3                                       | Administration/<br>exposure    |                                                                                                                                                                                                                                                                                                                |   |
| 3.3.1<br>exposu                           | Route of<br>are                | Oral gavage                                                                                                                                                                                                                                                                                                    |   |
| 3.3.2                                     | Duration of treatment          | Days 6 - 15 of gestation                                                                                                                                                                                                                                                                                       |   |

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| Section 6.8.1(1)<br>Annex Point IIA 6.8.1 |                             | Teratogenicity test in rats       |   |
|-------------------------------------------|-----------------------------|-----------------------------------|---|
| 3.3.3                                     | Frequency of exposure       | Once daily during exposure period |   |
| 3.3.4                                     | Vehicle                     |                                   |   |
| 3.3.5                                     | Dose levels                 |                                   | X |
| 3.3.6                                     | Concentration in vehicle    |                                   |   |
| 3.3.7                                     | Actual dose<br>administered |                                   | X |
| 3.3.8                                     | Post exposure period        |                                   |   |
| 3.4<br>Examin                             | Adult<br>actions            |                                   |   |
| 3.4.1                                     | Clinical signs              |                                   |   |
| 3.4.2                                     | Mortality                   |                                   |   |
| 3.4.3                                     | Bodyweight                  |                                   |   |
| 3.4.4<br>consum                           | Food<br>nption              |                                   |   |
| 3.4.5<br>consum                           | Water<br>nption             |                                   |   |
| 3.5                                       | Sacrifice and examinations  |                                   |   |
| 3.5.1                                     | Maternal findings           |                                   |   |
| 3.5.1.1<br>finding                        | Gross necropsy<br>s         |                                   |   |
| Organ                                     | weights                     |                                   |   |
| Other                                     |                             |                                   |   |
| 3.5.2                                     | Foetal findings             |                                   |   |
| 3.5.2.1                                   | Bodyweight                  |                                   |   |
| 3.5.2.2                                   | Gross necropsy findings     |                                   |   |

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| Section 6.8.1(1)<br>Annex Point IIA 6.8.1 |                            | Teratogenicity test in rats                                                                                                                                                                          |  |
|-------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 3.5.2.3                                   | Skeletal examinations      |                                                                                                                                                                                                      |  |
| 3.5.2.4                                   | Visceral examinations      |                                                                                                                                                                                                      |  |
| 3.6                                       | Statistics                 |                                                                                                                                                                                                      |  |
| 3.7                                       | Further remarks            |                                                                                                                                                                                                      |  |
|                                           |                            | 4 RESULTS                                                                                                                                                                                            |  |
| 4.1                                       | Maternal observations      |                                                                                                                                                                                                      |  |
| 4.1.1                                     | Clinical signs             | Perioral wetness in 67% of dams and audible respiration in 3 dams at 100 mg/kg/day. One dam in this group exhibited dehydration, unkempt appearance, loose feces, urine stains, and perioral wetness |  |
|                                           |                            | Audible respiration in 2 dams at 30 mg/kg/day. One of these dams also exhibited urine stains, gasping, perinasal encrustation, loose feces and perioral wetness.                                     |  |
| 4.1.2                                     | Mortality                  | No mortalities                                                                                                                                                                                       |  |
| 4.1.3                                     | Body weight gain           | There were no effects of treatment on gestational body weight and body weight gain, and gravid uterine weight in any dose group.                                                                     |  |
| 4.1.4 consum                              | Food<br>aption             | Food consumption was reduced for Days 6 to 9 in the 30 and 100 mg/kg/day treatment groups.                                                                                                           |  |
| 4.1.5                                     | Gross findings at necropsy | Ulceration of stomach and gas filled intestines, color changes in liver and lymph nodes and small spleen in one dam at 100 mg/kg/day                                                                 |  |
|                                           |                            | Swollen liver in one dam at 30 mg/kg/day                                                                                                                                                             |  |
| 4.1.6                                     | Other                      | One female in the mid-dose group delivered early and was removed from the study. At scheduled sacrifice, one female in the control group had no viable foetuses.                                     |  |
|                                           |                            | There were no treatment-related differences in the number of ovarian corpora lutea and in gestational parameters including total number of implantations, number of viable and nonviable implants.   |  |
| 4.2<br>observa                            | Foetal<br>tions            |                                                                                                                                                                                                      |  |
| 4.2.1                                     | Bodyweight                 | No treatment-related effects                                                                                                                                                                         |  |
| 4.2.2                                     | Gross findings at necropsy | No malformations                                                                                                                                                                                     |  |
| 4.2.3                                     | Skeletal findings          | No treatment-related variations or malformations                                                                                                                                                     |  |

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|       | on 6.8.1(1)<br>Point IIA 6.8.1 | Teratogenicity test in rats                                                                                                                                            |          |
|-------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 4.2.4 | Visceral findings              | No treatment-related variations or malformations                                                                                                                       |          |
| 4.3   | Remarks                        | No developmental toxicity including teratogenicity was observed at any dosage employed.                                                                                |          |
|       |                                | 5 APPLICANT'S SUMMARY AND CONCLUSION                                                                                                                                   |          |
| 5.1   | Materials and methods          | Give concise description of method; give test guidelines no. and discuss relevant deviations from test guidelines. Comments from 2.1 above are relevant in this table. | X        |
|       |                                |                                                                                                                                                                        |          |
|       |                                |                                                                                                                                                                        |          |
| 5.2   | Results and discussion         | Summarise relevant results; discuss dose-response relationship where relevant.                                                                                         | X        |
|       |                                |                                                                                                                                                                        |          |
|       |                                |                                                                                                                                                                        |          |
|       |                                |                                                                                                                                                                        |          |
|       |                                |                                                                                                                                                                        |          |
| 5.3   | Conclusion                     | Subsections for NOAEL, LOAEL etc. if appropriate                                                                                                                       | X        |
|       |                                | No developmental toxicity, including teratogenicity was observed at any dosage employed.                                                                               |          |
|       |                                | The "no observable effect level" (NOEL) for maternal toxicity was 10 mg/kg/day; the NOEL for developmental toxicity was at least 100 mg/kg/day.                        |          |
| 5.3.1 | Reliability                    | Based on the assessment of materials and methods include appropriate reliability indicator 0, 1, 2, 3 or 4                                                             |          |
|       |                                |                                                                                                                                                                        |          |
| 5.3.2 | Deficiencies                   |                                                                                                                                                                        |          |
|       |                                | (If yes, discuss the impact of deficiencies and implications on results. If relevant, justify acceptability of study.)                                                 |          |
|       |                                |                                                                                                                                                                        |          |
|       |                                | <b>Evaluation by Competent Authorities</b>                                                                                                                             |          |
|       |                                | Use separate "evaluation boxes" to provide transparency as to the communities submitted                                                                                | ents and |
|       |                                | EVALUATION BY RAPPORTEUR MEMBER STATE                                                                                                                                  |          |
| Date  |                                |                                                                                                                                                                        |          |

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| Section 6.8.1(1)<br>Annex Point IIA 6.8.1 | Teratogenicity test in rats                                                                                                                                                           |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Materials and Methods                     |                                                                                                                                                                                       |
| Results and discussion                    |                                                                                                                                                                                       |
| Conclusion                                |                                                                                                                                                                                       |
| Reliability                               |                                                                                                                                                                                       |
| Acceptability                             |                                                                                                                                                                                       |
| Remarks                                   |                                                                                                                                                                                       |
|                                           | COMMENTS FROM OTHER MEMBER STATE                                                                                                                                                      |
| Date                                      | Give date of the comments submitted                                                                                                                                                   |
| Materials and Methods                     | Discuss additional relevant discrepancies referring to the (sub)heading numbers and to applicant's summary and conclusion.  Discuss if deviating from view of rapporteur member state |
| Results and discussion                    | Discuss if deviating from view of rapporteur member state                                                                                                                             |
| Conclusion                                | Discuss if deviating from view of rapporteur member state                                                                                                                             |
| Reliability                               | Discuss if deviating from view of rapporteur member state                                                                                                                             |
| Acceptability                             | Discuss if deviating from view of rapporteur member state                                                                                                                             |

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|         | on 6.8.1(2)<br>Point IIA 6.8.1 | Teratogenicity test in rabbits                                                                                                                                                                                                                                                                           |                   |
|---------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
|         |                                | 1. REFERENCE                                                                                                                                                                                                                                                                                             | Official use only |
| 1.1     | Reference                      | Author(s), year, title, laboratory name, laboratory report number, report date (if published, list journal name, volume: pages) If necessary, copy field and enter other reference(s).                                                                                                                   |                   |
|         |                                | Neeper-Bradley, T.L. and Kubena, M.F. (1992). Developmental toxicity evaluation of Alkyl Dimethyl Benzyl Ammonium Chloride (ADBAC) Administered by gavage to New Zealand White Rabbits. Project No: 91N0032. Union Carbide, Bushy Run Research Center, Mellon Road, Export, PA 15632, USA. (Unpublished) |                   |
|         |                                | [Ref Nos A27 and A27a (LON 3242)                                                                                                                                                                                                                                                                         |                   |
| 1.2     | Data protection                | Yes                                                                                                                                                                                                                                                                                                      |                   |
|         |                                | (indicate if data protection is claimed)                                                                                                                                                                                                                                                                 |                   |
| 1.2.1   | Data owner                     | Give name of company                                                                                                                                                                                                                                                                                     |                   |
|         |                                | ADBAC Joint Venture                                                                                                                                                                                                                                                                                      |                   |
| 1.2.2   | Criteria for data protection   | Choose one of the following criteria (see also TNsG on Product Evaluation) and delete the others:                                                                                                                                                                                                        |                   |
|         |                                | Data submitted to the MS before 14 May 2000 on existing a.s. for the purpose of its entry into Annex I/IA                                                                                                                                                                                                |                   |
|         |                                | 2. GUIDELINES AND QUALITY ASSURANCE                                                                                                                                                                                                                                                                      |                   |
| 2.1     | Guideline study                | Yes                                                                                                                                                                                                                                                                                                      |                   |
|         |                                | U.S. EPA OPP 83-3                                                                                                                                                                                                                                                                                        |                   |
|         |                                | 1992                                                                                                                                                                                                                                                                                                     |                   |
|         |                                | (If yes, give references to the guidelines (for example test number in Annex V of Dir. 67/548/EEC); if no, give justification, e.g. "no guidelines available" or "methods used comparable to guidelines xy")                                                                                             |                   |
| 2.2     | GLP                            | Yes                                                                                                                                                                                                                                                                                                      |                   |
| (only w | vhere required)                | (If no, give justification, e.g. state that GLP was not compulsory at the time the study was performed)                                                                                                                                                                                                  |                   |
| 2.3     | Deviations                     | No                                                                                                                                                                                                                                                                                                       |                   |
|         |                                | (If yes, describe deviations from test guidelines or refer to respective field numbers where these are described, e.g. "see 3.x.y")                                                                                                                                                                      |                   |
|         |                                | 3. MATERIALS AND METHODS                                                                                                                                                                                                                                                                                 |                   |
|         |                                | In some fields the values indicated in the EC or OECD test guidelines are given as default values. Adopt, change or delete these default values as appropriate.                                                                                                                                          |                   |
| 3.1     | Test material                  | Alkyldimethylbenzylammonium Chloride                                                                                                                                                                                                                                                                     |                   |
| 3.1.1   | Lot/Batch number               | List lot/batch number where relevant                                                                                                                                                                                                                                                                     |                   |
|         |                                |                                                                                                                                                                                                                                                                                                          |                   |

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|                 | on 6.8.1(2)<br>Point IIA 6.8.1 | Teratogenicity test in rabbits                                                                                                                                                                                                                                                                                 |    |
|-----------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 3.1.2           | Specification                  | (describe specification under separate subheadings, such as the following; additional subheadings may be appropriate):                                                                                                                                                                                         | X  |
|                 |                                | As given in section II of Annex IIA of Directive 98/8/EC, especially Sections 2.6-2.8 therein.                                                                                                                                                                                                                 |    |
|                 |                                |                                                                                                                                                                                                                                                                                                                |    |
|                 |                                | Active substance (a.s.), alkyl(C <sub>12</sub> -C <sub>16</sub> )dimethylbenzylammonium chloride (ADBAC; CAS RN 68424-85-1), in aqueous/ethanol solution.                                                                                                                                                      |    |
| 3.1.3           | Description                    | If appropriate, give e.g. colour, physical form (e.g. powder, grain size, particle size/distribution)                                                                                                                                                                                                          |    |
|                 |                                |                                                                                                                                                                                                                                                                                                                | 24 |
| 3.1.4           | Purity                         | Give purity in g/kg, g/l, %w/w or % v/v active substance                                                                                                                                                                                                                                                       |    |
| 3.1.5           | Stability                      | Describe stability of test material                                                                                                                                                                                                                                                                            |    |
|                 | J.                             | The a.s., ADBAC, is hydrolytically and photolytically stable under the conditions of this study and has been shown to be stable in aqueous, alcohol and alcohol/aqueous solutions for extended periods, <i>e.g.</i> at least five years under standard laboratory conditions (see Section 2.6.1 of Annex IIA). |    |
| 3.2             | Test Animals                   |                                                                                                                                                                                                                                                                                                                |    |
| 3.2.1           | Species                        | Rabbit                                                                                                                                                                                                                                                                                                         |    |
| 3.2.2           | Strain                         | New Zealand White                                                                                                                                                                                                                                                                                              |    |
| 3.2.3           | Source                         |                                                                                                                                                                                                                                                                                                                |    |
| 3.2.4           | Sex                            | Female                                                                                                                                                                                                                                                                                                         | G  |
| 3.2.5           | Age/weight at study initiation |                                                                                                                                                                                                                                                                                                                |    |
| 3.2.6           | Number of animals              |                                                                                                                                                                                                                                                                                                                |    |
|                 | per group                      |                                                                                                                                                                                                                                                                                                                |    |
| 3.2.7           | Control animals                |                                                                                                                                                                                                                                                                                                                |    |
| 3.3             | Administration/<br>exposure    |                                                                                                                                                                                                                                                                                                                |    |
| 3.3.1<br>exposu | Route of are                   | Oral gavage                                                                                                                                                                                                                                                                                                    |    |
| 3.3.2           | Duration of treatment          | Days 6 - 18 of gestation                                                                                                                                                                                                                                                                                       |    |

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| 3.3.3           | Point IIA 6.8.1            |       |   |
|-----------------|----------------------------|-------|---|
| 3.3.3           | Frequency of exposure      | Daily |   |
| 3.3.4           | Vehicle                    |       |   |
| 3.3.5           | Dose levels                |       | X |
| 3.3.6           | Concentration in vehicle   |       |   |
| 3.3.7           | Actual dose administered   |       | X |
| 3.3.8           | Post exposure period       |       |   |
| 3.4<br>Examin   | Adult<br>actions           |       |   |
| 3.4.1           | Clinical signs             |       |   |
| 3.4.2           | Mortality                  |       |   |
| 3.4.3           | Bodyweight                 |       |   |
| 3.4.4<br>consum | Food<br>aption             |       |   |
| 3.4.5<br>consum | Water<br>option            |       |   |
| 3.5             | Sacrifice and examinations |       |   |
| 3.5.1           | Maternal findings          |       |   |
| Gross r         | necropsy findings          |       |   |
| Organ           | weights                    |       |   |
| Other           |                            |       |   |
| 3.5.2           | Foetal findings            |       |   |
| 3.5.2.1         | Bodyweight                 |       |   |
| 3.5.2.2         | Gross necropsy findings    |       |   |

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|                | n <b>6.8.1(2</b> )<br>Point IIA 6.8.1 | Teratogenicity test in rabbits                                                                                                                                                                     |  |
|----------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 3.5.2.3        | Skeletal examinations                 |                                                                                                                                                                                                    |  |
| 3.5.2.4        | Visceral examinations                 |                                                                                                                                                                                                    |  |
| 3.6            | Statistics                            |                                                                                                                                                                                                    |  |
| 3.7            | Further remarks                       |                                                                                                                                                                                                    |  |
|                |                                       | 4. RESULTS                                                                                                                                                                                         |  |
| 4.1            | Maternal observations                 |                                                                                                                                                                                                    |  |
| 4.1.1          | Clinical signs                        | Treatment-related clinical signs were observed at 9.0 mg/kg/day primarily related to laboured or audible breathing and hypoactivity.                                                               |  |
| 4.1.2          | Mortality                             | No mortalities                                                                                                                                                                                     |  |
| 4.1.3          | Body weight gain                      | No treatment related changes                                                                                                                                                                       |  |
| 4.1.4 consum   | Food<br>ption                         | No treatment related changes                                                                                                                                                                       |  |
| 4.1.5          | Gross findings at necropsy            | None                                                                                                                                                                                               |  |
| 4.1.6          | Other                                 | No abortions or early births.                                                                                                                                                                      |  |
|                |                                       | There were no treatment-related differences in the number of ovarian corpora lutea and in gestational parameters including total number of implantations, number of viable and nonviable implants. |  |
| 4.2<br>observa | Foetal<br>tions                       |                                                                                                                                                                                                    |  |
| 4.2.1          | Bodyweight                            | No treatment-related effects                                                                                                                                                                       |  |
| 4.2.2          | Gross findings at necropsy            | No malformations                                                                                                                                                                                   |  |
| 4.2.3          | Skeletal findings                     | No treatment-related variations or malformations                                                                                                                                                   |  |
| 4.2.4          | Visceral findings                     | No treatment-related variations or malformations                                                                                                                                                   |  |
| 4.3 Re         | marks                                 | No developmental toxicity including teratogenicity was observed at any dosage employed.                                                                                                            |  |
|                |                                       | 5. APPLICANT'S SUMMARY AND CONCLUSION                                                                                                                                                              |  |

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|        | on 6.8.1(2)<br>Point IIA 6.8.1 | Teratogenicity test in rabbits                                                                                                                                         |          |
|--------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 5.1    | Materials and methods          | Give concise description of method; give test guidelines no. and discuss relevant deviations from test guidelines. Comments from 2.1 above are relevant in this table. | X        |
|        |                                |                                                                                                                                                                        |          |
| 5.2    | Results and discussion         | Summarise relevant results; discuss dose-response relationship where relevant.                                                                                         |          |
|        |                                |                                                                                                                                                                        | **       |
| 5.3    | Conclusion                     | Subsections for NOAEL, LOAEL etc. if appropriate                                                                                                                       | X        |
|        |                                | No developmental toxicity, including teratogenicity, were observed at any dosage employed.                                                                             |          |
|        |                                | The "no observable effect level" (NOEL) for maternal effects was 3.0 mg/kg/day. The NOEL for developmental toxicity was at least 9.0 mg/kg/day.                        |          |
| 5.3.1  | Reliability                    |                                                                                                                                                                        |          |
| 5.3.2  | Deficiencies                   | (If yes, discuss the impact of deficiencies and implications on results. If relevant, justify acceptability of study.)                                                 |          |
|        |                                | <b>Evaluation by Competent Authorities</b>                                                                                                                             |          |
|        |                                | Use separate "evaluation boxes" to provide transparency as to the comm views submitted                                                                                 | ents and |
|        |                                | EVALUATION BY RAPPORTEUR MEMBER STATE                                                                                                                                  |          |
| Date   |                                |                                                                                                                                                                        |          |
| Mater  | ials and Methods               |                                                                                                                                                                        |          |
|        |                                |                                                                                                                                                                        |          |
| Result | s and discussion               |                                                                                                                                                                        | q        |
| Concl  | usion                          |                                                                                                                                                                        |          |
| Reliab | oility                         |                                                                                                                                                                        |          |
| Accep  | tability                       |                                                                                                                                                                        |          |
| Rema   | rks                            |                                                                                                                                                                        |          |

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| Section 6.8.1(2)<br>Annex Point IIA 6.8.1 | Teratogenicity test in rabbits                                                                                                                                                        |  |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                           | COMMENTS FROM OTHER MEMBER STATE                                                                                                                                                      |  |
| Date                                      | Give date of the comments submitted                                                                                                                                                   |  |
| Materials and Methods                     | Discuss additional relevant discrepancies referring to the (sub)heading numbers and to applicant's summary and conclusion.  Discuss if deviating from view of rapporteur member state |  |
| Results and discussion                    | Discuss if deviating from view of rapporteur member state                                                                                                                             |  |
| Conclusion                                | Discuss if deviating from view of rapporteur member state                                                                                                                             |  |
| Reliability                               | Discuss if deviating from view of rapporteur member state                                                                                                                             |  |
| Acceptability                             | Discuss if deviating from view of rapporteur member state                                                                                                                             |  |

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|         | on 6.8.2(1)<br>Point IIA 6.8.2 | Two generations reproduction study                                                                                                                                                                                                                                        |                   |
|---------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
|         |                                | 1. REFERENCE                                                                                                                                                                                                                                                              | Official use only |
| 1.1     | Reference                      | Author(s), year, title, laboratory name, laboratory report number, report date (if published, list journal name, volume: pages) If necessary, copy field and enter other reference(s).                                                                                    |                   |
|         |                                | Neeper-Bradley, T. L. (1990). Two-generation reproduction study in Sprague-Dawley (CD*) rats with Alkyl Dimethyl Benzyl Ammonium Chloride (ADBAC) administered in the diet. Report No. 52-524. Union Carbide, Bushy Run Research Center, Export, PA, U.S.A. (Unpublished) |                   |
|         |                                | [Ref No: A25 (LON 1881)]                                                                                                                                                                                                                                                  |                   |
| 1.2     | Data protection                | Yes                                                                                                                                                                                                                                                                       |                   |
|         |                                | (indicate if data protection is claimed)                                                                                                                                                                                                                                  |                   |
| 1.2.1   | Data owner                     | Give name of company                                                                                                                                                                                                                                                      |                   |
|         |                                | ADBAC Joint Venture                                                                                                                                                                                                                                                       |                   |
| 1.2.2   | Criteria for data protection   | Choose one of the following criteria (see also TNsG on Product<br>Evaluation) and delete the others:                                                                                                                                                                      |                   |
|         |                                | Data submitted to the MS before 14 May 2000 on existing a.s. for the purpose of its entry into Annex I/IA                                                                                                                                                                 |                   |
|         |                                | 2. GUIDELINES AND QUALITY ASSURANCE                                                                                                                                                                                                                                       |                   |
| 2.1     | Guideline study                | Yes                                                                                                                                                                                                                                                                       |                   |
|         |                                | U.S. EPA OPP 83-4                                                                                                                                                                                                                                                         |                   |
|         |                                | 1990                                                                                                                                                                                                                                                                      |                   |
|         |                                | (If yes, give references to the guidelines (for example test number in Annex V of Dir. 67/548/EEC); if no, give justification, e.g. "no guidelines available" or "methods used comparable to guidelines xy")                                                              |                   |
| 2.2     | GLP                            | Yes                                                                                                                                                                                                                                                                       |                   |
| (only w | here required)                 | (If no, give justification, e.g. state that GLP was not compulsory at the time the study was performed)                                                                                                                                                                   |                   |
| 2.3     | Deviations                     | No                                                                                                                                                                                                                                                                        |                   |
|         |                                | (If yes, describe deviations from test guidelines or refer to respective field numbers where these are described, e.g. "see 3.x.y")                                                                                                                                       |                   |
|         |                                | 3. MATERIALS AND METHODS                                                                                                                                                                                                                                                  |                   |
|         |                                | In some fields the values indicated in the EC or OECD test guidelines are given as default values. Adopt, change or delete these default values as appropriate.                                                                                                           |                   |
| 3.1     | Test material                  | Alkyldimethylbenzylammonium Chloride                                                                                                                                                                                                                                      |                   |
| 3.1.1   | Lot/Batch number               | List lot/batch number where relevant                                                                                                                                                                                                                                      |                   |
| 0.1.1   |                                |                                                                                                                                                                                                                                                                           |                   |

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|               | on 6.8.2(1)<br>Point IIA 6.8.2 | Two generations reproduction study                                                                                                                                                                                                                                                                             |   |
|---------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 3.1.2         | Specification                  | (describe specification under separate subheadings, such as the following; additional subheadings may be appropriate):                                                                                                                                                                                         | X |
|               |                                | As given in section II of Annex IIA of Directive 98/8/EC, especially Sections 2.6-2.8 therein.                                                                                                                                                                                                                 |   |
|               |                                |                                                                                                                                                                                                                                                                                                                |   |
|               |                                | Active substance (a.s.), alkyl( $C_{12}$ - $C_{16}$ )dimethylbenzylammonium chloride (ADBAC; CAS RN 68424-85-1), in aqueous/ethanol solution.                                                                                                                                                                  |   |
| 3.1.3         | Description                    | If appropriate, give e.g. colour, physical form (e.g. powder, grain size, particle size/distribution)                                                                                                                                                                                                          |   |
|               |                                |                                                                                                                                                                                                                                                                                                                |   |
| 3.1.4         | Purity                         | Give purity in g/kg, g/l, %w/w or % v/v active substance                                                                                                                                                                                                                                                       |   |
| 3.1.5         | Stability                      |                                                                                                                                                                                                                                                                                                                |   |
| 0.1.0         | Stability                      | Describe stability of test material                                                                                                                                                                                                                                                                            |   |
|               |                                | The a.s., ADBAC, is hydrolytically and photolytically stable under the conditions of this study and has been shown to be stable in aqueous, alcohol and alcohol/aqueous solutions for extended periods, <i>e.g.</i> at least five years under standard laboratory conditions (see Section 2.6.1 of Annex IIA). |   |
| 3.2           | Test Animals                   |                                                                                                                                                                                                                                                                                                                |   |
| 3.2.1         | Species                        | Rat                                                                                                                                                                                                                                                                                                            |   |
| 3.2.2         | Strain                         | Sprague-Dawley                                                                                                                                                                                                                                                                                                 |   |
| 3.2.3         | Source                         |                                                                                                                                                                                                                                                                                                                |   |
| 3.2.4         | Sex                            | Male and female                                                                                                                                                                                                                                                                                                |   |
| 3.2.5         | Age/weight at study initiation |                                                                                                                                                                                                                                                                                                                |   |
|               |                                |                                                                                                                                                                                                                                                                                                                |   |
| 3.2.6         | Number of animals per group    |                                                                                                                                                                                                                                                                                                                |   |
| 3.2.7         | Control animals                |                                                                                                                                                                                                                                                                                                                |   |
| 3.3<br>exposu | Administration/<br>re          |                                                                                                                                                                                                                                                                                                                |   |
| 3.3.1         | Route of exposure              | Oral feed                                                                                                                                                                                                                                                                                                      |   |
| 3.3.2         | Duration of                    | F <sub>0</sub> : 19 weeks (from 1 <sup>st</sup> prebreed dose to last F <sub>0</sub> sacrifice)                                                                                                                                                                                                                |   |
|               | treatment                      | $F_1$ : 25 weeks (from $1^{st} F_1$ wean to last $F_1$ sacrifice)                                                                                                                                                                                                                                              |   |

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| on 6.8.2(1)<br>Point IIA 6.8.2 | Two generations reproduction study                                                                                                                                                                                                         |                                                                                                                                                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                | F <sub>2</sub> : to weaning                                                                                                                                                                                                                | 1                                                                                                                                                                                                                                                  |
| Frequency of exposure          | Ad libitum                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                    |
| Vehicle                        |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                    |
| Dose levels                    |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                    |
| Concentration in vehicle       |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                    |
| Actual dose<br>administered    |                                                                                                                                                                                                                                            | X                                                                                                                                                                                                                                                  |
| Post exposure period           |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                    |
| Examinations                   |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                    |
| Clinical signs                 |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                    |
| Mortality                      |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                    |
| Bodyweight                     |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                    |
| Food<br>mption                 |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                    |
| Water<br>mption                |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                    |
| Sacrifice and ogy              |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                    |
| Organ weights                  |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                    |
| Gross and<br>histopathology    |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                    |
|                                | Frequency of exposure Vehicle Dose levels Concentration in vehicle Actual dose administered  Post exposure period  Examinations Clinical signs  Mortality Bodyweight  Food mption Water mption  Sacrifice and ogy Organ weights  Gross and | Frequency of exposure  Vehicle  Dose levels  Concentration in vehicle  Actual dose administered  Post exposure period  Examinations  Clinical signs  Mortality  Bodyweight  Food mption  Water mption  Sacrifice and ogy  Organ weights  Gross and |

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|                 | on 6.8.2(1)<br>Point IIA 6.8.2 | Two generations reproduction study                                                                                                                                                                                                                                                                                            |  |
|-----------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                 |                                |                                                                                                                                                                                                                                                                                                                               |  |
|                 |                                |                                                                                                                                                                                                                                                                                                                               |  |
| 3.5.3           | Other                          |                                                                                                                                                                                                                                                                                                                               |  |
|                 | nations                        |                                                                                                                                                                                                                                                                                                                               |  |
| 3.6             | Statistics                     |                                                                                                                                                                                                                                                                                                                               |  |
|                 |                                |                                                                                                                                                                                                                                                                                                                               |  |
|                 |                                |                                                                                                                                                                                                                                                                                                                               |  |
|                 |                                |                                                                                                                                                                                                                                                                                                                               |  |
| 3.7             | T41                            |                                                                                                                                                                                                                                                                                                                               |  |
| 3./             | Further remarks                | 4. RESULTS                                                                                                                                                                                                                                                                                                                    |  |
|                 |                                | 4. RESULTS                                                                                                                                                                                                                                                                                                                    |  |
| 4.1<br>(Paren   | Observations<br>tal data)      |                                                                                                                                                                                                                                                                                                                               |  |
| 4.1.1           | Clinical signs                 | No significant signs of toxicity during the pre-breed, mating, gestation or lactation periods at any dose for either generation.                                                                                                                                                                                              |  |
| 4.1.2           | Mortality                      | None                                                                                                                                                                                                                                                                                                                          |  |
| 4.1.3           | Body weight                    | During the 10-week pre-breed exposure, F0 males exhibited no reduction in body weight. During the same period, F0 females at 2000 ppm exhibited reductions in body weight for weeks 5, 6, 9 and 10 of pre-breed treatment. Body weight gain was also reduced at 2000 ppm for one week (week 8-9) during the pre-breed period. |  |
|                 |                                | On lactational day 21 mean body weight of F0 dams at 2000 ppm exhibited a significant increase. Increased lactational body weight gain was observed at 2000 ppm throughout lactation.                                                                                                                                         |  |
|                 |                                | During the 10-week pre-breed exposure, F1 males at 2000 ppm exhibited no reduction in body weights but weight gain was reduced at 2000 ppm for the second treatment week. There were no significant effects on the F1 females.                                                                                                |  |
|                 |                                | F1 maternal body weights at 2000 ppm were unaffected during the gestational and lactational periods.                                                                                                                                                                                                                          |  |
| 4.1.4           | Gestation period               | Reproductive parameters were unaffected by treatment for all groups during the first and second breeding of both the F0 and F1 animals.                                                                                                                                                                                       |  |
| 4.1.5<br>consun | Food<br>mption                 | Food consumption in the F0 females at 2000 ppm was reduced for the first four exposure weeks. Food consumption in F0 males was significantly reduced at 2000 ppm for the first week of treatment only.                                                                                                                        |  |
|                 |                                | At F0 breed to produce F1 litters food consumption during gestation and lactation was unaltered by treatment.                                                                                                                                                                                                                 |  |
|                 |                                | Food consumption for the Fl males exhibited significant reductions at 2000 ppm for weeks 3-4 and 6-7 of the pre-breed period and for week                                                                                                                                                                                     |  |

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|                            | on 6.8.2(1)<br>Point IIA 6.8.2 | Two generations reproduction study                                                                                                                                                                                                                                     |   |
|----------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                            |                                | 15-16. Treated Fl females exhibited no reductions in food consumption throughout the ten-week pre-breed period.                                                                                                                                                        |   |
|                            |                                | At the F1 breed to produce F2 litters gestational food consumption was reduced for days 7-11 and 14-17 at 2000 ppm.                                                                                                                                                    |   |
| 4.1.6                      | Other                          | No treatment-related effects on any reproductive parameters were observed at any dose. NOEL (parental) = 1000 ppm                                                                                                                                                      |   |
| 4.2                        | Observations<br>(Foetal data)  |                                                                                                                                                                                                                                                                        |   |
| 4.2.1                      | Clinical signs                 | There were no signs of toxicity in the F1 or F2 animals.                                                                                                                                                                                                               |   |
| 4.2.2                      | Mortality                      | There was no effects of treatment on postnatal deaths.                                                                                                                                                                                                                 |   |
| 4.2.3                      | Body weight                    | The F1 litters exhibited reduced body weights per litter on postnatal days 21 and 28 at 2000 ppm. F1 pup body weight gains were reduced for lactation days 14-21 and 21-28.                                                                                            |   |
|                            |                                | F2 pup weights per litter were reduced at 2000 ppm on postnatal day 28. Pup weight gains were also reduced at 2000 ppm for lactational days 14-21 and for days 21-28.                                                                                                  |   |
| 4.2.4                      | Other                          | NOEL (Fland F2 offspring) = 1000 ppm                                                                                                                                                                                                                                   |   |
| 4.3<br>pathol              | Sacrifice and ogy              |                                                                                                                                                                                                                                                                        |   |
| 4.3.1                      | Gross and<br>histopathology    | There were no treatment-related observations or histopathological findings in either the F0 or F1 adult animals at any dose. There were no treatment-related findings in the F1 or F2 pups that died during lactation or randomly selected F1 and F2 pups at necropsy. |   |
| 4.4                        | Other                          |                                                                                                                                                                                                                                                                        |   |
|                            |                                | 5. APPLICANT'S SUMMARY AND CONCLUSION                                                                                                                                                                                                                                  |   |
| 5.1 Materials and methods  |                                | Give concise description of method; give test guidelines no. and discuss relevant deviations from test guidelines. Comments from 2.1 above are relevant in this table.                                                                                                 | X |
|                            |                                |                                                                                                                                                                                                                                                                        |   |
|                            |                                |                                                                                                                                                                                                                                                                        |   |
| 5.2 Results and discussion |                                | Summarise relevant results; discuss dose-response relationship where relevant.                                                                                                                                                                                         |   |
|                            |                                |                                                                                                                                                                                                                                                                        |   |
|                            |                                |                                                                                                                                                                                                                                                                        |   |
|                            |                                |                                                                                                                                                                                                                                                                        |   |
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