

Justification for the selection of a candidate CoRAP substance

Substance Name (Public Name): 2-furylmethanol

EC Number: 202-626-1

CAS Number: 98-00-0

Submitted by: Bureau for Chemical Substances, Poland

Published: 20/03/2013

NOTE

This document has been prepared by the evaluating Member State given in the CoRAP update.

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1 IDENTITY OF THE SUBSTANCE

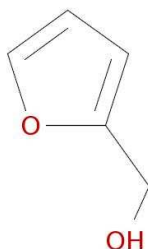
1.1 Name and other identifiers of the substance

Table 1: Substance identity

| | |
|---|--|
| EC number: | 202-626-1 |
| EC name: | furfuryl alcohol |
| CAS number (in the EC inventory): | 98-00-0 |
| CAS number: | 98-00-0 |
| CAS name: | |
| IUPAC name: | |
| Index number in Annex VI of the CLP Regulation | 603-018-00-2 |
| Molecular formula: | C ₅ H ₆ O ₂ |
| Molecular weight or molecular weight range: | 98,1 g/mol |
| Synonyms: | Furfurol 2-furan carbinol 2-furanmethanol 2-furyl carbinol 2-hydroxymethyl furan 2-hydroxymethyl furan (2-Furyl)-methanol FA Furfural Alcohol Furyl Alcohol |

Type of substance Mono-constituent Multi-constituent UVCB

Structural formula:



2 CLASSIFICATION AND LABELLING

2.1 Harmonised Classification in Annex VI of the CLP

Classification according to part 3 of Annex VI, Table 3.1 (list of harmonised classification and labelling of hazardous substances) of Regulation (EC) No 1272/2008:

| Classification | | Labelling | | Specific Conc. Limits, M-factors | Notes |
|-----------------------------------|--------------------------|--------------------------------|--------------------------|----------------------------------|-------|
| Hazard Class and Category Code(s) | Hazard statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | | |
| Carc. 2 | H351 | GHS06 | H351 | | |
| Acute Tox. 3 * | H331 | GHS08 | H331 | | |
| Acute Tox. 4 * | H312 | Dgr | H312 | | |
| Acute Tox. 4 * | H302 | | H302 | | |
| STOT RE 2 * | H373** | | H373** | | |
| Eye Irrit. 2 | H319 | | H319 | | |
| STOT SE 3 | H335 | | H335 | | |

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H319: Causes serious eye irritation.

H331: toxic if inhaled.

H335: May cause respiratory irritation.

H351: suspected of causing cancer.

H373: May cause damage to upper respiratory tract and nose through prolonged or repeated exposure by inhalation.

Classification according to part 3 of Annex VI, Table 3.2 (list of harmonized classification and labelling of hazardous substances from Annex I of Council Directive 67/548/EEC) of Regulation (EC) No 1272/2008:

| Classification | Labelling | Concentration Limits | Notes |
|---|---|----------------------|-------|
| Carc. Cat. 3; R40 T; R23 Xn; R21/22-48/20 Xi; R36/37 | T R: 21/22-23-36/37-40-48/20 S: (1/2-)36/37-45-63 | | |

R21/22: Harmful in contact with skin and if swallowed.

R23: Toxic by inhalation.

R36/37: Irritating to eyes and respiratory system.

R40: Limited evidence of carcinogenicity effect.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

2.2 Proposal for Harmonised Classification in Annex VI of the CLP

None proposed.

2.3 Self classification

In addition to the harmonised classification, the following classifications are included in the Classification and Labelling Inventory database:

Acute Tox. 3; H301: toxic if swallowed.

Acute Tox. 3; H311: Toxic in contact with skin.

Skin Irrit. 2; H315: Causes skin irritation.

Acute Tox. 2; H330: Fatal if inhaled.

Muta. 2; H341: Suspected of causing genetic defects.

STOT SE 3; H370: Causes damage to organs.

3 JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CoRAP SUBSTANCE

3.1 Legal basis for the proposal

Article 44(1) (refined prioritisation criteria for substance evaluation)

Article 45(5) (Member State priority)

3.2 Grounds for concern

| | | |
|--|--|--|
| <input checked="" type="checkbox"/> (Suspected) CMR | <input checked="" type="checkbox"/> Wide dispersive use | <input type="checkbox"/> Cumulative exposure |
| <input type="checkbox"/> (Suspected) Sensitiser | <input checked="" type="checkbox"/> Consumer use | <input type="checkbox"/> High RCR |
| <input type="checkbox"/> (Suspected) PBT | <input type="checkbox"/> Exposure of sensitive populations | <input checked="" type="checkbox"/> Aggregated tonnage |
| <input type="checkbox"/> Suspected endocrine disruptor | <input type="checkbox"/> Other (provide further details below) | |

The substance is proposed based on its hazard potential (carcinogen), exposure profile and tonnage.

The substance is toxic by all routes of exposure (oral, dermal, inhalation) and classified as Carc. 2. Furfuryl alcohol was selected to CoRAP because of the not conclusive data on carcinogenicity by oral route of exposure. The detailed evaluation of the available data and the read-across arguments on carcinogenicity may lead to further information requirements. It has large production volume, widespread use in manufacturing with high exposure for workers, wide dispersive use with high release for environment and ubiquitous presence in consumer goods.

3.3 Information on aggregated tonnage and uses

| | | | |
|--|--|--|--|
| <input type="checkbox"/> 1 – 10 tpa | <input type="checkbox"/> 10 – 100 tpa | <input type="checkbox"/> 100 – 1000 tpa | |
| <input type="checkbox"/> 1000 – 10,000 tpa | <input checked="" type="checkbox"/> 10,000 – 100,000 tpa | <input type="checkbox"/> 100,000 – 1,000,000 tpa | |
| <input type="checkbox"/> 1,000,000 – 10,000,000 tpa | <input type="checkbox"/> > 10,000,000 tpa | | |
| <input type="checkbox"/> <1 >+ tpa | <input type="checkbox"/> Confidential | | |
| <i>Please provide further details if appropriate</i> | | | |
| <input checked="" type="checkbox"/> Industrial use | <input checked="" type="checkbox"/> Professional use | <input checked="" type="checkbox"/> Consumer use | <input type="checkbox"/> Closed System |
| <p>The most relevant uses and exposure are:</p> <p>Industry – Manufacturing of Furfuryl alcohol Industry – Manufacturing of other substances (mixing with other substances) Industry – Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) Industry – Polymer preparations and compounds Industry – Packing, re-packing</p> | | | |

3.4 Other completed/ongoing regulatory processes that may affect suitability for substance evaluation

| | |
|--|--|
| <input type="checkbox"/> Compliance check | <input type="checkbox"/> Dangerous substances Directive 67/548/EEC |
| <input type="checkbox"/> Testing proposal | <input type="checkbox"/> Existing Substances Regulation 793/93/EEC |
| <input type="checkbox"/> Annex VI (CLP) | <input type="checkbox"/> Plant Protection Products Regulation 91/414/EEC |
| <input type="checkbox"/> Annex XV (SVHC) | <input type="checkbox"/> Biocidal Products Directive 98/8/EEC |
| <input type="checkbox"/> Annex XIV (Authorisation) | <input type="checkbox"/> Other (provide further details below) |
| <input type="checkbox"/> Annex XVII (Restriction) | |
| <i>Please provide further details</i> | |

3.5 Information to be requested to clarify the suspected risk

| | |
|--|---|
| <input checked="" type="checkbox"/> Information on toxicological properties | <input type="checkbox"/> Information on physico-chemical properties |
| <input type="checkbox"/> Information on fate and behaviour | <input checked="" type="checkbox"/> Information on exposure |
| <input type="checkbox"/> Information on ecotoxicological properties | <input checked="" type="checkbox"/> Information on uses |
| <input type="checkbox"/> Other (provide further details below) | |
| <p>Detailed evaluation of the available data and the read-across arguments on carcinogenicity may lead to further information requirements.</p> <p>Information related to the identified uses and exposure scenarios as well as information needed to refine exposure assessment and risk management measures.</p> | |

3.6 Potential follow-up and link to risk management

| | | | |
|--|---|--|--|
| <input type="checkbox"/> Restriction | <input type="checkbox"/> Harmonised C&L | <input type="checkbox"/> Authorisation | <input type="checkbox"/> Other (provide further details) |
| <p>Depending on outcome of the substance evaluation. A potential follow up action of the evaluation will be refinement of the RCR and in consequence risk management measures to limit exposure.</p> | | | |