

Justification for the selection of a substance for CoRAP inclusion

| | |
|--------------------------------------|-----------------------|
| Substance Name (Public Name): | Octamethyltrisiloxane |
| Chemical Group: | siloxanes |
| EC Number: | 203-497-4 |
| CAS Number: | 107-51-7 |
| Submitted by: | UK REACH CA |
| Published: | 26/03/2014 |

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

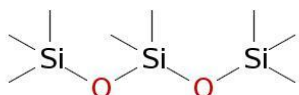
1.1 Other identifiers of the substance

Table 1: Substance identity

| | |
|---|---|
| EC name: | Octamethyltrisiloxane |
| IUPAC name: | Octamethyltrisiloxane |
| Index number in Annex VI of the CLP Regulation | Not listed |
| Molecular formula: | C ₈ H ₂₄ O ₂ Si ₃ |
| Molecular weight or molecular weight range: | 236.5 |
| Synonyms/Trade names: | L3, Dow Corning 200 (r) fluid 1cst |

Type of substance Mono-constituent Multi-constituent UVCB

Structural formula:



1.2 Similar substances/grouping possibilities

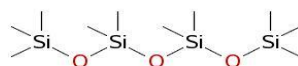
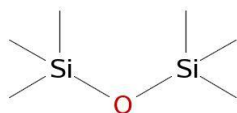
The structurally related chemical decamethyltetrasiloxane (CAS no. 141-62-8, also known as L4) could be included to form a category for evaluation.

Hexamethyldisiloxane (CAS no. 107-46-0, L2) is currently being evaluated by the UK in the 2013 Substance Evaluation work.

Structural formula:

Hexamethyldisiloxane

Decamethyltetrasiloxane



2 CLASSIFICATION AND LABELLING

2.1 Harmonised Classification in Annex VI of the CLP

No harmonised classification.

2.2 Self classification

- In the registration:
Flam. Liquid 3 H226: Flammable liquid and vapour.
- The following hazard classes are in addition notified among the aggregated self classifications in the C&L Inventory:
Aquatic Chronic 4; H413: May cause long lasting harmful effects to aquatic life.
Not Classified

The following labelling is also notified without classification with hazard classes:

- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

2.3 Proposal for Harmonised Classification in Annex VI of the CLP

No proposal according to registry of intention (checked 9th August 2013)

3 INFORMATION ON AGGREGATED TONNAGE AND USES

| | | | |
|--|---|--|--|
| From ECHA dissemination site | | | |
| <input type="checkbox"/> 1 – 10 tpa | <input type="checkbox"/> 10 – 100 tpa | <input checked="" type="checkbox"/> 100 – 1000 tpa | |
| <input type="checkbox"/> 1000 – 10,000 tpa | <input 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 – 100,000,000 tpa | <input type="checkbox"/> > 100,000,000 tpa | |
| <input type="checkbox"/> <1 >+ tpa (e.g. 10+ ; 100+ ; 10,000+ 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 following uses are identified on the ECHA dissemination site: personal care products, coatings, sealants, heat transfer fluid, non-metal surface treatment agent - in situ treatment, use in electronics and optical product manufacturing and laboratory reagent. These cover industrial use, professional use and consumer use.</p> <p>The primary interest in the substance evaluation is the use of personal care products as this is potentially a down-the-drain source of environmental exposure. The significance of other uses will be assessed as part of the evaluation.</p> | | | |

4 JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CoRAP SUBSTANCE

4.1 Legal basis for the proposal

- Article 44(2) (refined prioritisation criteria for substance evaluation)
- Article 45(5) (Member State priority)

4.2 Selection criteria met (why the substance qualifies for being in CoRAP)

- Fulfils criteria as CMR/ Suspected CMR
- Fulfils criteria as Sensitiser/ Suspected sensitiser
- Fulfils criteria as potential endocrine disrupter
- Fulfils criteria as PBT/vPvB / Suspected PBT/vPvB
- Fulfils criteria high (aggregated) tonnage (*tpa* > 1000)
- Fulfils exposure criteria
- Fulfils MS's (national) priorities

4.3 Initial grounds for concern to be clarified under Substance Evaluation

| Hazard based concerns | | |
|--|--|--|
| CMR <input type="checkbox"/> C <input type="checkbox"/> M <input type="checkbox"/> R | Suspected CMR ¹ <input type="checkbox"/> C <input type="checkbox"/> M <input type="checkbox"/> R | <input type="checkbox"/> Potential endocrine disruptor |
| <input type="checkbox"/> Sensitiser | <input type="checkbox"/> Suspected Sensitiser ¹ | |
| <input type="checkbox"/> PBT/vPvB | <input checked="" type="checkbox"/> Suspected PBT/vPvB ¹ | <input type="checkbox"/> Other (please specify below) |
| Exposure/risk based concerns | | |
| <input checked="" type="checkbox"/> Wide dispersive use | <input checked="" type="checkbox"/> Consumer use | <input type="checkbox"/> Exposure of sensitive populations |
| <input type="checkbox"/> Exposure of environment | <input type="checkbox"/> Exposure of workers | <input type="checkbox"/> Cumulative exposure |
| <input type="checkbox"/> High RCR | <input type="checkbox"/> High (aggregated) tonnage | <input type="checkbox"/> Other (please specify below) |
| <p><i>vPvB</i></p> <p>Octamethyltrisiloxane has a high measured bioconcentration factor in fish (BCF = 7730 L/kg) and is not readily biodegradable. Characteristics of other siloxanes such as D4, D5 and HMDS (L2) suggest potential to be persistent in sediment. Therefore as well as clarifying P properties, sediment risks will also be investigated.</p> <p>Octamethyltrisiloxane is registered with uses including professional and consumer personal care products, which suggests a wide dispersive use pattern. As the substance could be a potential replacement for D4 and D5, if uses of those substances are restricted, the supply volume of octamethyltrisiloxane could increase.</p> | | |

¹ CMR/Sensitiser: known carcinogenic and/or mutagenic and/or reprotoxic properties/known sensitising properties (according to CLP harmonized or registrant self-classification or CLP Inventory)

Suspected CMR/Suspected sensitiser: suspected carcinogenic and/or mutagenic and/or reprotoxic properties/suspected sensitising properties (not classified according to CLP harmonized or registrant self-classification)

Suspected PBT: Potentially Persistent, Bioaccumulative and Toxic

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

| | |
|--|---|
| <input type="checkbox"/> Compliance check, Final decision | <input type="checkbox"/> Dangerous substances Directive 67/548/EEC |
| <input checked="" 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 ; Biocidal Product Regulation (Regulation (EU) 528/2012) |
| <input type="checkbox"/> Annex XIV (Authorisation) | <input type="checkbox"/> Other (provide further details below) |
| <input type="checkbox"/> Annex XVII (Restriction) | |
| <p>Terrestrial and developmental toxicity testing proposed by registrant for octamethyltrisiloxane.</p> <p>D4 and D5 have been agreed to meet the PBT/vPvB criteria, which may affect the supply of octamethyltrisiloxane if this is used as a substitute in the future.</p> | |

4.5 Preliminary indication of information that may need to be requested to clarify the concern

| | |
|--|---|
| <input type="checkbox"/> Information on toxicological properties | <input type="checkbox"/> Information on physico-chemical properties |
| <input checked="" type="checkbox"/> Information on fate and behaviour | <input type="checkbox"/> Information on exposure |
| <input type="checkbox"/> Information on ecotoxicological properties | <input type="checkbox"/> Information on uses |
| <input type="checkbox"/> Information ED potential | <input type="checkbox"/> Other (provide further details below) |
| <p>Testing to assess persistence in sediment, for example OECD 308 <i>Aerobic and Anaerobic Transformation in Aquatic Sediment Systems</i>.</p> <p>Further information on releases from relevant parts of the life cycle (may include a request for monitoring data).</p> <p>Further data to clarify any sediment risks.</p> | |

4.6 Potential follow-up and link to risk management

| | | | |
|--|--------------------------------------|--|--|
| <input type="checkbox"/> Harmonised C&L | <input type="checkbox"/> Restriction | <input type="checkbox"/> Authorisation | <input type="checkbox"/> Other (provide further details) |
| To be determined following substance evaluation. | | | |