

Justification for the selection of a substance for CoRAP inclusion

– UPDATE –

Substance Name (Public Name): Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
Chemical Group: Organic
EC Number: 271-846-8
CAS Number: 68609-97-2
Submitted by: Ireland
Date: 26/03/2014
updated 17/03/2015

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:	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
IUPAC name:	Oxirane, 2-((C12-14-alkyloxy)methyl)derivs
Index number in Annex VI of the CLP Regulation	603-103-00-4
Molecular formula:	C15H30O2 + C17H34O2 + C19H38O2 + C12H26O + C14H30O + C30H60O4 + C32H64O4
Molecular weight or molecular weight range:	186-513
Synonyms/Trade names:	

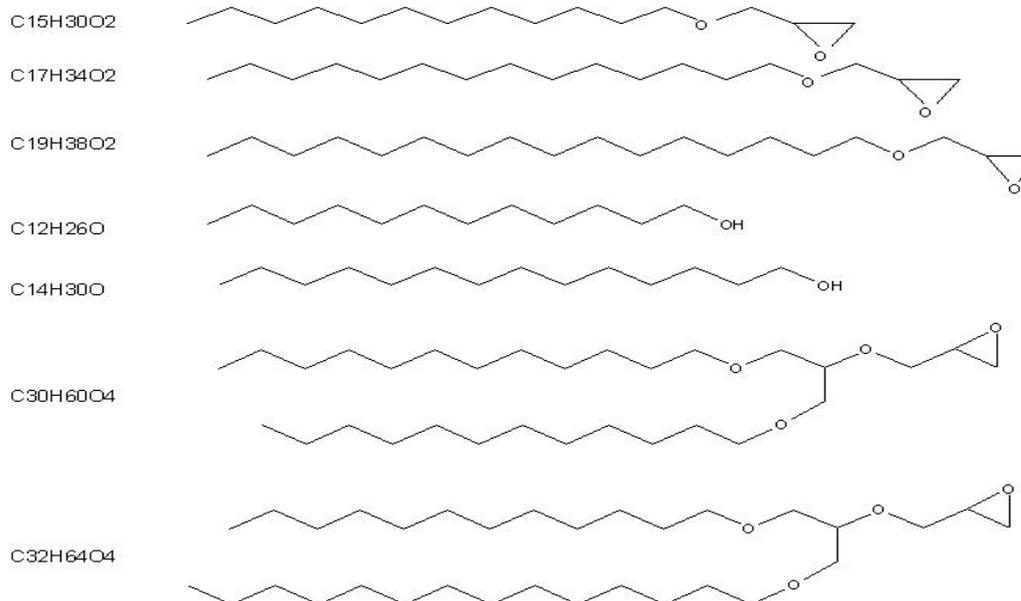
Type of substance

Mono-constituent

Multi-constituent

UVCB

Structural formula:



1.2 Similar substances/grouping possibilities

None identified.

2 CLASSIFICATION AND LABELLING

2.1 Harmonised Classification in Annex VI of the CLP

- Skin Irritation 2; H315: Causes skin irritation.
- Skin Sensitisation 1; H317: May cause an allergic skin reaction

2.2 Self classification

- In the registration data:
 - Skin Irritation 2; H315: Causes skin irritation.
 - Skin Sensitisation 1; H317: May cause an allergic skin reaction

- In addition, the following hazard classes are notified among the self classifications in the C&L Inventory:
 - Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects

2.3 Proposal for Harmonised Classification in Annex VI of the CLP

None.

3 INFORMATION ON AGGREGATED TONNAGE AND USES

From ECHA dissemination site			
<input type="checkbox"/> 1 – 10 tpa	<input type="checkbox"/> 10 – 100 tpa	<input type="checkbox"/> 100 – 1000 tpa	
<input checked="" 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	
<input checked="" type="checkbox"/> Industrial use	<input checked="" type="checkbox"/> Professional use	<input checked="" type="checkbox"/> Consumer use	<input type="checkbox"/> Closed System
The substance is used as a viscosity adjuster for epoxy resins used in for example in adhesives, sealants, coatings and paints, fillers, putties and pastes.			

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 type="checkbox"/> Testing proposal	<input type="checkbox"/> Existing Substances Regulation 793/93/EEC
<input checked="" 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)	

5 JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CoRAP SUBSTANCE

5.1 Legal basis for the proposal

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

5.2 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

5.3 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 checked="" type="checkbox"/> M <input type="checkbox"/> R	<input type="checkbox"/> Potential endocrine disruptor
<input checked="" type="checkbox"/> Sensitiser	<input type="checkbox"/> Suspected Sensitiser ¹	
<input type="checkbox"/> PBT/vPvB	<input type="checkbox"/> Suspected PBT/vPvB ¹	<input checked="" type="checkbox"/> Other (please specify below)
Exposure/risk based concerns		
<input 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 checked="" type="checkbox"/> Exposure of workers	<input type="checkbox"/> Cumulative exposure
<input type="checkbox"/> High RCR	<input checked="" type="checkbox"/> High (aggregated) tonnage	<input type="checkbox"/> Other (please specify below)
<p>The substance has a harmonised classification as a skin sensitiser and there appear to be uses reported in the registration data where worker and consumer exposure is possible. Further assessment of the exposure potential and the adequacy of the existing risk management measures are required.</p> <p>In a guideline (OECD 471) <i>in vitro</i> bacterial gene mutation study (Ames test), a positive result was obtained in <i>S. typhimurium</i> strain TA 1535 in the presence and absence of metabolic activation. In a second non-guideline Ames test, ambiguous results were obtained for <i>S. typhimurium</i> strains TA100, TA 98 and TA 1535. Negative results were obtained in <i>in vitro</i> gene mutation studies on mammalian cells. Results from three <i>in vivo</i> studies investigating chromosome aberrations are available, all of which are negative but there is no <i>in vivo</i> study addressing gene mutation. Further evaluation of the positive result in the <i>in vitro</i> bacterial mutagenicity studies is required in order to determine whether further <i>in vivo</i> testing to address gene mutation is required.</p> <p>No data on the fertility endpoint is reported in the registration data. For the developmental toxicity endpoint, a preliminary dermal developmental toxicity screening study (EPA OTS 798.4420) is reported. No developmental toxicity or maternal toxicity was observed, other than local dermal irritation at site of administration. However, it is noted that there are some limitations with the study, in particular the low number of animals per dose group and the route of administration used. Therefore, given the aggregated tonnage, the potential for worker and consumer exposure and the limited data available on the reproductive toxicity endpoint, further evaluation of the available data is required in order to determine whether additional data to address the fertility and developmental toxicity endpoints is required.</p> <p>The registration dossier reports a 90-day dermal repeat dose toxicity study on an analogue substance however no justification is provided for the read-across or the choice of route of administration. No systemic effects were observed but local effects at the site of administration were reported. As no other repeated dose toxicity data are reported in the registration data, further evaluation of this study and the derivation of systemic DNELs in the dossier are required.</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

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

<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"/> Information ED potential	<input type="checkbox"/> Other (provide further details below)

Following evaluation of the existing data, additional data to clarify the identified concerns for repeated dose toxicity, mutagenicity and reproductive toxicity may be required.

Further information on uses and/or exposure may be required to clarify whether existing exposure estimates and associated risk management measures are adequate.

5.5 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)
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Difficult to identify at this stage given the limited hazard data available.