

Justification for the selection of a candidate CoRAP substance

Substance Name (Public Name):	7-oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate
Chemical Group:	-
EC Number:	219-207-4
CAS Number:	2386-87-0
Submitted by:	Health & Safety Authority, Ireland
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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

Public Name:	7-oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate
EC number:	219-207-4
EC name:	7-oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate
CAS number (in the EC inventory):	219-207-4
CAS number:	2386-87-0
CAS name:	-
IUPAC name:	7-oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate
Index number in Annex VI of the CLP Regulation	Not listed on Annex VI of CLP
Molecular formula:	C ₁₄ H ₂₀ O ₄
Molecular weight or molecular weight range:	252.3062
Synonyms:	7-Oxabicyclo 4.1.0 heptane-3-carboxylic acid, 7-oxabicyclo 4.1.0 hept-3-ylmethyl ester. Trade name: CELLOXIDE 2021P

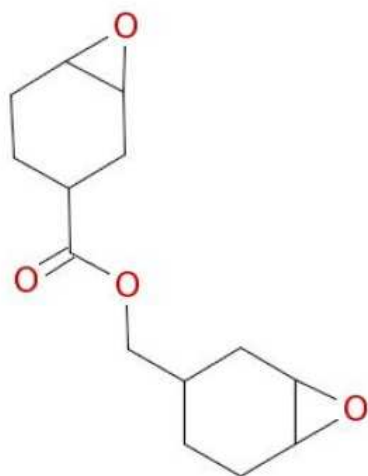
Type of substance

Mono-constituent

Multi-constituent

UVCB

Structural formula:



2 CLASSIFICATION AND LABELLING

2.1 Harmonised Classification in Annex VI of the CLP

No harmonised classification.

2.2 Proposal for Harmonised Classification in Annex VI of the CLP

There are no proposals listed on the Registry of Intentions.

2.3 Self classification

In the registration data:

- CLP Criteria:
Skin Sens. 1; H317: May cause an allergic skin reaction.

- DSD Criteria:
R43: May cause sensitization by skin contact.
Xi: Irritant.

C&L Inventory:

The following additional classifications have been notified to the C&L Inventory:

Hazard class	Hazard statement
STOT RE 2	H373: May cause damage to organs.
Aquatic Chronic 3	H412: Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	H315: Causes skin irritation.
Eye Irrit. 2	H319: Causes serious eye irritation.
Muta. 2	H341: Suspected of causing genetic defects.
STOT SE 3	H335: May cause respiratory irritation.

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

The substance is self-classified as Skin Sens. 1 H317: May cause an allergic skin reaction. However it is not listed in Annex VI of CLP. A number of identified uses indicate the possibility for dermal exposure, e.g. PROCs 10, 11, 13 and 19. Therefore, the adequacy of risk management measures should be further evaluated.

The registration data contains several *in vitro* mutagenicity studies which are positive. There is one negative *in vivo* UDS and one negative *in vivo* mouse micronucleus study; both reported with limited details in the registration data. No carcinogenicity studies are available. In addition, the substance has positive structural alerts for mutagenicity and carcinogenicity using a number of QSAR models. Further review of the mutagenic, and possibly carcinogenic, potential of the substance is proposed.

In a study according OECD Guideline 414 (Prenatal Developmental Toxicity Study) effects observed in the high dose group included reduced mean foetal body weight, increased skeletal developmental variations in the form of reduced mean litter proportion of cervical centrum no. 1 ossified, which were statistically significant and an increase in the mean litter proportions of unossified sternbrae, which although not statistically significant, were above the maximum values in the historical controls. These observed effects were considered evidence of a developmental delay. However, a decrease in maternal body weight and food consumption was also observed at this dose and it was concluded in the registration data that the effects were secondary to maternal toxicity. Clarification of the significance of the observed maternal toxicity with respect to developmental delay is required.

3.3 Information on aggregated tonnage and uses

<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 – 50,000 tpa	<input type="checkbox"/> 50,000 – 100,000 tpa	
<input type="checkbox"/> 100,000 – 500,000 tpa	<input type="checkbox"/> 500,000 – 1000,000 tpa	<input type="checkbox"/> > 1000,000 tpa	
<input type="checkbox"/> Confidential			
Tonnage band is indicated on ECHA's dissemination website.			
<input checked="" type="checkbox"/> Industrial use	<input checked="" type="checkbox"/> Professional use	<input type="checkbox"/> Consumer use	<input type="checkbox"/> Closed System

The following uses are indicated on ECHA's dissemination website:

1. Formulation/packaging/mixing/blending (including formulation of coatings) – industrial
2. Intermediate use – industrial
3. Monomer use - industrial
4. Application and use - industrial
5. Formulation/packaging/mixing/blending (including formulation of coatings) – professional
6. Application and use - professional

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 type="checkbox"/> Information on exposure
<input type="checkbox"/> Information on ecotoxicological properties	<input type="checkbox"/> Information on uses
<input checked="" type="checkbox"/> Other (provide further details below)	
<p>The clarification of data with relevance to sensitization, mutagenicity and reproductive toxicity is needed (see 3.2). Possible request for additional exposure information for processes where concern about exposure and further refinement of the exposure estimate may be appropriate.</p>	

3.6 Potential follow-up and link to risk management

<input type="checkbox"/> Restriction	<input checked="" type="checkbox"/> Harmonised C&L	<input type="checkbox"/> Authorisation	<input checked="" type="checkbox"/> Other (provide further details)
<p>A proposal for harmonised classification for skin sensitization, and for other endpoints if required, may be considered. If it is confirmed that the risk to workers is not adequately controlled using the currently applied risk management measures, a proposal for additional EU wide or national risk management measures will be considered, depending on the concern identified.</p>			