OLAMINS DI SAMI

Justification Document for the Selection of a CoRAP Substance

- Update -

Substance Name (public name): Reaction mass of 2-methylpentane and

Hexanol, branched and linear and

diisopropyl ether

EC Number: 906-390-7

CAS Number: NS

Authority: Italy

Date: 22/03/2016

20/03/2018 (1. Update)

Cover 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: Other Substance identifiers

EC name (public):	Reaction mass of 2-methylpentane and Hexanol, branched and linear and diisopropyl ether		
IUPAC name (public):			
Index number in Annex VI of the CLP Regulation:			
Molecular formula:	A complex and variable combination of hydrocarbons having carbon numbers predominantly in the C3, C6 & C9 chain length and oxygenated organic molecules, predominantly diisopropyl ether and hexanol (branched and linear). See diagram		
Molecular weight or molecular weight range:	ca. 96.0		
Synonyms:			
Type of substance ☐ Mono-constitue	ent 🗵 Multi-constituent 🗆 UVCB		

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Structural formula:

Diisopropylether.	The state of the s
-Propagol (NPA)	2,3-dimethylbutane CH ₃
-methylpentane H ₃ C CH ₃	3-methyl pentane
sopropyl Ether (IPE)	3-methyl-2-pentene CH ₃ CH ₃
,3 dimethylbutene	H ₃ C CH ₃ 3-methyl-2-pentanol HO CH ₃
-methyl-2-pentanol H ₃ C OH	4-methyl-2-pentanol H ₃ C CH ₃ OH
.4 dimethylbeatene	3,5 dimethyl-3-heptene
(ropy) isopropylether	3-methyl-3-pentanol H ₃ C CH ₃ HO CH ₃
ropylene	OH IPA
H ₃ C CH ₃	

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1.2 Similar substances/grouping possibilities

Has read-across been used by the registrant for the concern related				
endpoints?	☐ Yes	⊠ No		
Is the substance a member of a category?	☐ Yes	⊠ No		

2 OVERVIEW OF OTHER PROCESSES / EU LEGISLATION

Table: Completed or ongoing processes

RMOA	☐ Risk Management Option Analysis (RMOA)			
no		□ Compliance check, Final decision		
	Evaluation	\square Testing proposal, Final decison		
sses	Ē	☐ CoRAP and Substance Evaluation		
REACH Processes		☐ Candidate List		
REACH Proc	☐ Annex XIV			
Restri -ction	☐ Annex XVII¹			
Harmonised C&L	☐ Annex VI (CLP) (see section 3.1)			
Processes under other EU legislation	☐ Plant Protection Products Regulation			
esson other	Regulation (EC) No 1107/2009			
Processes under other	\square Biocidal Product Regulation			
= E		Regulation (EU) 528/2012 and amendments		
Previ ous legisl ation	☐ Dangerous substances Directive Directive 67/548/EEC (NONS)			

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¹ Please specify the relevant entry.

JUSTIFICATION DOCUMENT FOR THE SELECTION OF A CORAP SUBSTANCE

	☐ Existing Substances Regulation Regulation 793/93/EEC (RAR/RRS)	
IEP) kholm ention DPs	☐ Assessment	
(UNEP Stockho conventi (POPs Protoco	☐ In relevant Annex	
Other processes / EU legislation	\square Other (provide further details below)	
Please provide further details and more particularly specify where relevant if the process is ongoing or completed. Give only publicly available information.		

3 HAZARD INFORMATION (INCLUDING CLASSIFICATION)

3.1 Classification

3.1.1 Harmonised Classification in Annex VI of the CLP

The substance hasn't a harmonised classification

3.1.2 Self classification

• In the registration:

Asp. Tox. 1 H304
 Flam. Liq. 2 H225
 Aquatic Chronic 3 H412
 STOT SE 3 H336

• The following hazard classes are in addition notified among the aggregated self classifications in the C&L Inventory:

none

3.1.3 Proposal for Harmonised Classification in Annex VI of the CLP

none

4 INFORMATION ON (AGGREGATED) TONNAGE AND USES²

4.1 Tonnage and registration status

Table: Tonnage and registration status

From ECHA dis	semination s	ite					
□ Full registration(s) (Art. 10)			\Box Intermediate registration(s) (Art. 17 and/or 18)				
Tonnage band (as per dissemi	nation site)				
□ 1 – 10 tpa		□ 10 -	□ 10 - 100 tpa			.000 tpa	
□ 1000 - 10,00	00 tpa	□ 10,0	□ 10,000 - 100,000 tpa			☐ 100,000 - 1,000,000 tpa	
⊠ 1,000,000 - tpa	.,000,000 – 10,000,000			□ > 100,0	000,000 tpa		
□ <1>+ tpa (e.g. 10+; 100+; 10,000+ tpa) □ Cor			☐ Confide	ntial			
This substance I Submission(s).	nas 1 active r	egistrations	s under REAC	CH, 0 Joint S	ubmission(s)	and 1 Individu	
This sub	verview of used of the stance is used of the stance is used of the stance of the stanc	as a fuel by					
Table: U		'	<i>3</i> ,			J	
Part 1:							
Manufacture	⊠ Formulation	⊠ Industrial use	Professional use	⊠ Consumer use	☐ Article service life	☐ Closed system	
	e is high pote	ntial for e	xposure of				
			l⊠ Er	vironment			

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² The dissemination site was accessed in July 2017.

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 □ C □ M □ R	Suspected CMR¹ ☐ C ☐ M ☐ R	☐ Potential endocrine disruptor		
☐ Sensitiser	☐ Suspected Sensitiser³			
□ PBT/vPvB	Suspected PBT/vPvB¹	☐ Other (please specify below)		
Exposure/risk based concerns				
⊠ Wide dispersive use	⊠ Consumer use	☐ Exposure of sensitive populations		
		☐ Cumulative exposure		
\square High RCR \boxtimes High (aggregated) tonnage		☐ Other (please specify below)		

Suspected PBT: Potentially Persistent, Bioaccumulative and Toxic

³ <u>CMR/Sensitiser</u>: known carcinogenic and/or mutagenic and/or reprotoxic properties/known sensitising properties (according to CLP harmonized or registrant self-classification or CLP Inventory) <u>Suspected CMR/Suspected sensitiser</u>: suspected carcinogenic and/or mutagenic and/or reprotoxic properties/suspected sensitising properties (not classified according to CLP harmonized or registrant self-classification)

Persistence: At pH4, 7 and 9 there was less than 10% hydrolysis after 120 hours at 50°C when monitoring the isopropyl ether content of the test material, equivalent to a half-life greater than 1 year at 25°C. In a ready biodegradability test conducted according to guideline OECD 310, 22% biodegradation was observed in 28 days. The degradation simulation studies required at this tonnage band have been waived so no definite conclusion on P can be made. The screening

criterion for P/vP is met.

Bioaccumulation: The measured water solubility of the substance was found to be dependent on loading and ranged from 0.444-16.9 g/l at nominal loadings between 1 and 100g/l respectively. Log Pow was measured using the HPLC method EU Method A.8 giving values between 0.324 to 4.63. From the chromatographic profile, one component, peak 9, meets the screening criterion for B. The fish bioaccumulation study required at this tonnage band is waived. A summary of QSAR predictions is provided which concludes that 'highest BCF calculated was 173.9 L/kg, which was associated with the C6 aliphatic constituents'. Based on the measured Pow, some components of the substance are potentially bioaccumulative and this cannot be ruled out without further information, such as further justification of the QSAR predictions or further bioaccumulation testing.

Toxicity: There is insufficient data to determine whether the T criterion is met. Reproductive toxicity and repeated dose toxicity studies are waived. Acute toxicity studies with fish and Daphnia show LC50s in the 10-100 mg/l range based on nominal concentrations. For algae, the 72h ErC50 was 80mg/l (nominal concentration). However, these aquatic toxicity studies all used the WAF approach so the actual toxicity of individual components is unclear. Long-term aquatic toxicity studies are waived.

Exposure and risks: There is wide dispersive use of the substance as a fuel sources, including consumer exposure. Potential risks to consumer are identified.

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

oximes Information on toxicological properties	☑ Information on physico-chemical properties	
oximes Information on fate and behaviour	☑ Information on exposure	
$oxed{\boxtimes}$ Information on ecotoxicological properties	☐ Information on uses	
\square Information on ED potential	\square Other (provide further details below)	
 Further tests to investigate the persistence and bioaccumulation of certain components of the substance. It is difficult to request such information for components of a substance under compliance check. Substance identity check to determine whether hexane is present Further tests to investigate long-term toxicity and ecotoxicity, if necessary. Information on exposure to clarify the risk to consumers 		

5.5 Potential follow-up and link to risk management

☐ Harmonised C&L	⊠ Restriction	⊠ Authorisation	☐ Other (provide further details)
Dependent on whether found.	er the definitive PBT o	criteria are met and wh	nether risks to consumers are