Justification for the selection of a substance for CoRAP inclusion

Substance Name (Public Name): hexafluoropropene

Chemical Group:

EC Number: 204-127-4

CAS Number: 116-15-4

Submitted by: Italy

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:	hexafluoropropene
IUPAC name:	1,1,2,3,3,3-hexafluoroprop-1-ene
Index number in Annex VI of the CLP Regulation	602-061-00-4
Molecular formula:	C3F6
Molecular weight or molecular weight range:	150.0225
Synonyms/Trade names:	1-Propene, 1,1,2,3,3,3-hexafluoro-

Type of substance ⊠ Mono-constituent □ Multi-constituent □ UVCB

Structural formula:

1.2 Similar substances/grouping possibilities

2 CLASSIFICATION AND LABELLING

2.1 Harmonised Classification in Annex VI of the CLP

Class	ification	Labelling		
Hazard Class and Category Code(s)	Hazard Statement Code(s)	Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	
Liq. Gas (Note U)	H280	H280	GUG07	
Acute Tox. 4	H332	H332	GHS07	
STOT SE 3	H335	H335	Wng	

2.2 Self classification

• In the registrations

The joint submission and one of the individual registrants have given the following self classifications in addition to the ones in Annex VI:

STOT SE 2; H371: May cause damage to organs.

STOT RE 2; H373: May cause damage to organs through prolonged or

repeated exposure.

For both: Affected organs: Kidneys

Route of exposure: Inhalation

• In addition are the following hazard class notified to the C&L Inventory:

Aquatic Chronic 3; H412: Harmful 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					
☐ 1 - 10 tpa		☐ 10 - 100 tpa		☐ 100 - 1000 tpa	
☐ 1000 - 10,000 tpa		☑ 10,000 – 100,000 tpa		☐ 100,000 - 1,000,000 tpa	
☐ 1,000,000 - 10,000,000 tpa ☐ 10,000,000 - 100,000,000 tpa			100,000,000 tpa	☐ > 100,000,000 tpa	
☐ <1 > + tpa (e.g. 10+; 100+; 10,000+ tpa)					
There are also two individual registrations as intermediate, for which the tonnage is confidential.					
☐ Industrial use	☐ Profe	ssional use	☐ Consumer use		☐ Closed System
PC 0: Other: flame retardant agent (UCN B45000) - fire extinguisher powder (UCN B50000) PC 19: Intermediate; PC 32: Polymer preparations and compounds SU 9: Manufacture of fine chemicals; SU 11: Manufacture of rubber products					
SU 12: Manufacture of plastics products, including compounding and conversion					

4 JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CORAP SUBSTANCE

4.1 Legal basis for the proposal
☐ 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
$oxed{\boxtimes}$ 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 □C □M □R	Suspected CMR^1 $\square C$ $\square M$ $\square R$	☐ Potential endocrine disruptor			
Sensitiser	☐Suspected Sensitiser ¹				
☐ PBT/vPvB	☐ Suspected PBT/vPvB ¹	☐ Other (please specify below)			
Exposure/risk based concer	ns				
☐ Wide dispersive use	☐ Consumer use	☐ Exposure of sensitive populations			
☐ Exposure of environment	☐ Exposure of workers	☐ Cumulative exposure			
☐ High RCR	☐ High (aggregated) tonnage	☐ Other (please specify below)			
that the reproductive/develop concluded that in order to eva- test is needed for this chemi repeat dose toxicity data it was information on a surrogate che	mental toxicity endpoint was aluate the developmental toxic cal. Based on similarity of chas recommended that this commical – tetrafluoroethene (TFI	azardous chemicals and concluded not fulfilled. At the SIAM it was city, a reproductive/developmental nemical structure and comparable data gap could be filled by using before the conduct of additional have been made available for TEE			

Suspected PBT: Potentially Persistent, Bioaccumulative and Toxic

for this end-point.

¹ <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)

JUSTIFICATION DOCUMENT FOR THE SELECTION OF A CORAP SUBSTANCE

Furthermore in the REACH registration dossier the available information are not sufficient to conclude on developmental toxicity and on carcinogenicity. Indeed waivings are reported for these two end-points.

However, the potential carcinogenicity of hexafluoropropene was assessed with the OECD (Q)SAR Toolbox by IT CAs. The chemical contains a "Structural alert for nongenotoxic carcinogenity (Trichloro (or fluoro) ethylene and Tetrachloro (or fluoro) ethylene". The chemical was subsequently subjected to a preliminary Read-Across, that confirmed the suspicion for carcinogenic activity.

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

Compliance check Fi	nal decision	☐ Dangerous substance	es Directive 67/548/FFC	
Compliance check, Final decision		☐ Dangerous substances Directive 67/548/EEC		
☐ Testing proposal		☐ Existing Substances Regulation 793/93/EEC		
☐ Annex VI (CLP)		☐ Plant Protection Products Regulation 91/414/EEC		
☐ Annex XV (SVHC)		☐ Biocidal Products Directive 98/8/EEC; Biocidal Product Regulation (Regulation (EU) 528/2012)		
Annex XIV (Authorisa	ation)	☑ Other (provide further details below)		
☐ Annex XVII (Restrict	on)			
ITCA has assessed th	e substance under Ol	ECD activities on HPVC	C (see above).	
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