

# Justification Document for the Selection of a CoRAP Substance

## -Update-

**Substance Name (public name):** 3,5,5-trimethylhexanoic acid

**EC Number:** 221-975-0 **CAS Number:** 3302-10-1

**Authority:** Ministry of Health, Consumer Affairs

and Social Welfare, Spain

**Date:** 22/03/2016 (UK)

20/03/2018 (1. Update) (UK)

19/03/2019 (2. Update) (ES)

#### 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):	3,5,5-trimethylhexanoic acid
IUPAC name (public):	3,5,5-trimethylhexanoic acid
Index number in Annex VI of the CLP Regulation:	NA
Molecular formula:	C9H18O2
Molecular weight or molecular weight range:	158.24
Synonyms:	

**Type of substance**  $\square$  Mono-constituent  $\square$  Multi-constituent  $\square$  UVCB

**Structural formula:** 



## 1.2 Similar substances/grouping possibilities

Not applicable

## **2 OVERVIEW OF OTHER PROCESSES / EU LEGISLATION**

**Table: Completed or ongoing processes** 

RMOA	☐ Risk Management Option Analysis (RMOA)				
	Evaluation	☐ Compliance check, Final decision			
Ŋ		□ Testing proposal – complete – dossier updated			
esse		☐ CoRAP and Substance Evaluation			
REACH Processes	Authori- sation	☐ Candidate List			
EACH		☐ Annex XIV			
~	Restri -ction	☐ Annex XVII			
Harmonised C&L	☐ Annex VI (CLP) (see section 3.1)				
es ner tion		☐ Plant Protection Products Regulation			
r oth	Regulation (EC) No 1107/2009				
Processes under other EU legislation	☐ Biocidal Product Regulation				
		Regulation (EU) 528/2012 and amendments			
		☐ Dangerous substances Directive			
ous	Directive 67/548/EEC (NONS)				
Previous egislation	☐ Existing Substances Regulation				
e B	Regulation 793/93/EEC (RAR/RRS)				
(UNEP) cockholm nvention (POPs	☐ Assessment				
(UNEP) Stockholm conventior (POPs	☐ In relevant Annex				
Other processes / EU legislation		$\square$ Other (provide further details below)			

#### 3 HAZARD INFORMATION (INCLUDING CLASSIFICATION)

#### 3.1 Classification

#### 3.1.1 Harmonised Classification in Annex VI of the CLP

No harmonised classification is available for the substance.

#### 3.1.2Self classification

• In the registration:

Acute tox 4, H302 Harmful if swallowed

Skin irrit 2, H315 Causes skin irritation

Eye damage 1, H318 Causes serious eye damage

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

Eye irrit 2, H319 Causes serious eye irritation

STOT SE 3, H335 (resp system, inhalation) May cause respiratory irritation Unclassified

## 3.1.3Proposal for Harmonised Classification in Annex VI of the CLP

Not applicable

## 4 INFORMATION ON (AGGREGATED) TONNAGE AND USES<sup>1</sup>

## 4.1 Tonnage and registration status

**Table: Tonnage and registration status** 

From ECHA dissemination site*							
oxtimes Full registration(s) (		☐ Intermediate registration(s) (Art. 17 and/or 18)					
Tonnage band (as per o	dissemin	ation site)	)				
□ 1 – 10 tpa	□ 1 – 10 tpa □ 10				□ 100 - 10	□ 100 − 1000 tpa	
□ 1000 - 10,000 tpa	□ 10,0	00 - 100,000	tpa	□ 100,000 - 1,000,000 tpa			
☐ 1,000,000 - 10,000 tpa	,000	□ 10,0 tpa	00,000 - 100	,000,000	□ > 100,000,000 tpa		
⊠ 10,000+ tpa					☐ Confidential		
Joint submission	Joint submission						
2.6.11): https://echa.europa.eu/documents/10162/22308542/manual dissemination en.pdf/7e0b8 7c2-2681-4380-8389-cd655569d9f0  4.2 Overview of uses							
Part 1:					☐ Article	☐ Closed	
					service life	system	
Part 2:							
Use(s)							
Uses as intermediate	At industrial sites. Not SCC.						
Formulation	Preparations						
Uses at	laboratory use						
industrial sites	metal working fluids / rolling oils						
	lubricants						

 $<sup>^{\</sup>mathrm{1}}$  The dissemination site was accessed November 2018

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	functional fluids
	use as intermediate (non SCC)
	functional fluids
Uses by professional	laboratory use
workers	lubricants
	metal working fluids / rolling oils

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## 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 $\boxtimes$ 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** Suspected CMR<sup>2</sup> ☐ Potential endocrine disruptor $\square$ C $\square$ M $\boxtimes$ R $\square$ C $\square$ M $\square$ R ☐ Sensitiser ☐ Suspected Sensitiser<sup>2</sup> ☐ Other (please specify below) ☐ Suspected PBT/vPvB<sup>2</sup> ☐ PBT/vPvB Exposure/risk based concerns ☐ Exposure of sensitive ☐ Wide dispersive use ☐ Consumer use populations ☐ Exposure of ☐ Cumulative exposure environment ☐ High RCR ☐ High (aggregated) tonnage ☐ Other (please specify below)

Suspected PBT: Potentially Persistent, Bioaccumulative and Toxic

<sup>&</sup>lt;sup>2</sup> <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)

A developmental toxicity study in rats has been conducted according to OECD test guideline 414. In this study morphological changes indicative of delayed development, such as supernumerary and wavy ribs and delayed ossification, were reported at the top dose, together with severely altered rib cages that were reported to result in malformations. This was in the presence of maternal toxicity. From the information available in the dossier it is not clear whether the findings reported are malformations or are the result of variations/delayed development.

Also reported is a yellow discolouration of the foetal livers. This finding was seen in all dose groups in the absence of maternal toxicity and showed a dose-response relationship. There were no underlying morphological changes or histopathology to explain the finding. A one generation range/screening study according to OECD guideline 415 was available, but this did not include histopathology on the pups so provided no information on the persistence of the discolouration post-partum. However, the study reported no effects on the pups in terms of either survival or clinical signs, other than in the presence of maternal toxicity.

These effects raise concern that the substance might be a developmental toxicant in rats. No developmental study in a second species is available. Further consideration is needed of this endpoint.

3,5,5-trimethylhexanoic acid is registered at high tonnages (> 1000 tpa) and, for some exposure scenarios, there is the potential for direct human contact (for example, through the use of metalworking fluids).

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

☑ Information on to	xicological properties	☐ Information on physico-chemical properties				
$\square$ Information on fat	e and behaviour		☑ Information on exposure			
☐ Information on eco	otoxicological propert	ies	$\square$ Information on uses			
☐ Information ED po	tential		$\square$ Other (provide further details below)			
During substance evaluation details of the effects reported in the developmental study should be requested. Further information or studies might be needed to clarify the concern						
5.5 Potential follow-up and link to risk management						
☐ Harmonised C&L	☐ Harmonised C&L ☐ Restriction ☐ Authorisation ☐ Other (provide further details)					
Further action and risk management measures will depend upon the outcome of the evaluation.						

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