

## **Justification for the selection of a candidate CoRAP substance**

<b>Substance Name (Public name):</b>	Diisodecyl azelate
<b>EC Number:</b>	249-044-4
<b>CAS Number:</b>	28472-97-1
<b>Submitted by:</b>	Ministry of Health – Italy
<b>Published:</b>	20/03/2013

### **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

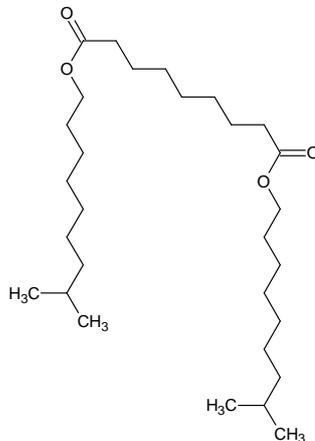
## 1.1 Name and other identifiers of the substance

Table 1: Substance identity

<b>EC number:</b>	249-044-4
<b>EC name:</b>	Diisodecyl azelate
<b>CAS number (in the EC inventory):</b>	28472-97-1
<b>CAS number:</b>	
<b>CAS name:</b>	
<b>IUPAC name:</b>	Not available because not a single isomer. The product consists of isomers with different branching patterns.
<b>Index number in Annex VI of the CLP Regulation</b>	
<b>Molecular formula:</b>	C <sub>29</sub> H <sub>56</sub> O <sub>4</sub>
<b>Molecular weight or molecular weight range:</b>	468.7525 g/mol
<b>Synonyms:</b>	

**Type of substance**     Mono-constituent     Multi-constituent     UVCB

### Structural formula:



## **2 CLASSIFICATION AND LABELLING**

### **2.1 Harmonised Classification in Annex VI of the CLP**

Not classified.

### **2.2 Proposal for Harmonised Classification in Annex VI of the CLP**

None proposed.

### **2.3 Self-classification**

Not classified in the registration.

No other notifications to the Classification and Labelling Inventory than "Not classified".

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

The substance was selected on the basis of structural similarities to a known PBT substance (dichlorodioctylstannane, CAS 3542-36-7).

Vapour pressure: 9.71E-10 Pa at 20°C (SPARC calculation)

Water solubility: <0.05 mg/L at 20°C (and pH=6.8)

Log Kow (calculated) : 11.55

Log Koc: 6.3 – 7.1 (calculated KoCWin v2.00)

Regarding biodegradation the information available is a read across to Bis(2-ethylhexyl) azelate (CAS 103-24-2) which indicates that the substance is readily biodegradable (73.2 – 89.3% degradation after 29 days in a OECD 301B test. In addition there is a test with a reliability 3 performed with the substance of concern which indicates 60% degradation after 7 days (remaining hydrocarbons). This test was conducted according to the Coordinating European Council (CEC) Guideline (1982) "Development of performance tests for lubricants and engine fuels, tentative test method. Biodegradability of two-stroke cycle outboard engine oils in water". Due to methodological deficiencies, biodegradation values could only be obtained up to day 7 (planned study period 21 days) and therefore the study was classified as not reliable. No more information is given on the study.

Only acute data on fish is available where no effects were seen at the highest tested concentration (LC50 (96h)>10g/L). Acute data on invertebrates and algae are available on the analogue substance Bis(2-ethylhexyl) azelate (CAS 103-24-2) for which no effects were seen (use of WAF). Long term testing has been waived.

The uses are clearly wide dispersive as the substance is a lubricant used for vehicles and machineries in industrial settings but also by professionals and consumers.

The whole chemical safety report is based on the fact that the substance is readily biodegradable and not toxic. However the read across would need to be checked and due to the low solubility of the substance long term testing should have been investigated.

From a hazard point of view this substance is of potential concern for the environment, in addition the tonnage is high and the uses are wide dispersive. In conclusion it is proposed to investigate further this substance under substance evaluation.

### 3.3 Information on aggregated tonnage and uses

<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 tpa	
<input type="checkbox"/> <1 . . . . . >+ tpa	<input type="checkbox"/> Confidential	
<i>Please provide further details if appropriate</i>		
<input checked="" type="checkbox"/> Industrial use	<input checked="" type="checkbox"/> Professional use	<input checked="" type="checkbox"/> Consumer use
		<input type="checkbox"/> Closed System
Diisodecyl azelate is used as a lubricant or additive in lubricants in vehicles and machineries in industrial settings but is also used by professionals as well as consumers (ERC 8a, b, d and e as well as ERC 9a and b).		

### 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 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 type="checkbox"/> Other (provide further details below)	
<i>Please provide further details</i>	

### 3.6 Potential follow-up and link to risk management

<input type="checkbox"/> Restriction	<input type="checkbox"/> Harmonised C&L	<input type="checkbox"/> Authorisation	<input type="checkbox"/> Other (provide further details)
Depending on the outcome of substance evaluation.			