

## Justification for the selection of a substance for CoRAP inclusion

<b>Substance Name (Public Name):</b>	Imidazolium compounds, 2-C17-unsatd.-alkyl-1-(2-C18-unsatd. amidoethyl)-4,5-dihydro-N-methyl, Me sulfates
<b>Chemical Group:</b>	
<b>List Number:</b>	931-745-8
<b>CAS Number:</b>	
<b>Submitted by:</b>	Sweden
<b>Published:</b>	26/03/2014

### Note

This document has been prepared by the evaluating Member State given in the CoRAP update.

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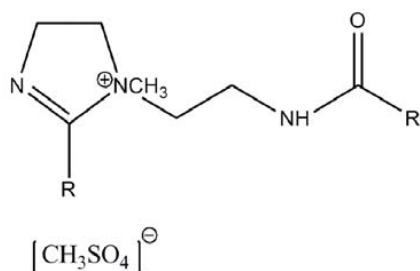
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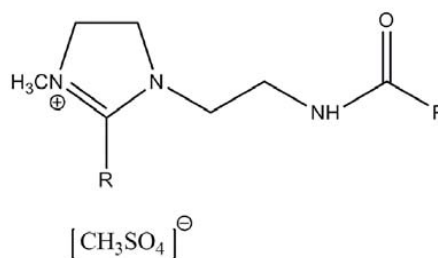
## 1.2 Similar substances/grouping possibilities

Imidazolium compounds, 2-(C15-17(odd numbered), C17-unsatd. alkyl)-1-[2-(C16-18(even numbered), C18-unsatd. amido)ethyl]-4,5-dihydro-N-methyl, Me sulfates)

Structural formula:



Structure #1



Structure #2

## 2 CLASSIFICATION AND LABELLING

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

None

### 2.2 Self classification

- In the registration (given for "oleic-acid based IQAC, DMS quaternised")
  - Skin Irrit. 2; H315: Causes skin irritation.
  - Eye Irrit. 2 ; H319: Causes serious eye irritation.
  - Aquatic Acute 1; H400: Very toxic to aquatic life.
  - Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects.
- The following hazard classes are in addition notified among the aggregated self classifications in the C&L Inventory:
  - None. Not listed in the C&L inventory.

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

None

### 3 INFORMATION ON AGGREGATED TONNAGE AND USES

From ECHA dissemination site			
<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 – 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 – 100,000,000 tpa	<input type="checkbox"/> > 100,000,000 tpa	
<input type="checkbox"/> <1 . . . . . >+ tpa (e.g. 10+ ; 100+ ; 10,000+ 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
<p>WDU:                      Anti-static agents                      Softeners                      Surface active agents</p> <p>Professional and consumer uses</p> <p>Polishes and wax blends                      Fabrics, textiles and apparel                      Paper articles</p>			

### 4 JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CoRAP SUBSTANCE

#### 4.1 Legal basis for the proposal

- Article 44(2) (refined prioritisation criteria for substance evaluation)
- 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
- 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 <input type="checkbox"/> C <input type="checkbox"/> M <input type="checkbox"/> R	Suspected CMR <sup>1</sup> <input type="checkbox"/> C <input type="checkbox"/> M <input type="checkbox"/> R	<input type="checkbox"/> Potential endocrine disruptor
<input type="checkbox"/> Sensitiser	<input type="checkbox"/> Suspected Sensitiser <sup>1</sup>	
<input type="checkbox"/> PBT/vPvB	<input checked="" type="checkbox"/> Suspected PBT/vPvB <sup>1</sup>	<input type="checkbox"/> Other (please specify below)
Exposure/risk based concerns		
<input type="checkbox"/> Wide dispersive use	<input type="checkbox"/> Consumer use	<input type="checkbox"/> Exposure of sensitive populations
<input checked="" type="checkbox"/> Exposure of environment	<input type="checkbox"/> Exposure of workers	<input type="checkbox"/> Cumulative exposure
<input checked="" type="checkbox"/> High RCR	<input type="checkbox"/> High (aggregated) tonnage	<input type="checkbox"/> Other (please specify below)
<p>Water solubility: 2.2 ± 0.4 mg/L</p> <p><b>P:</b> 4.4 — 12.7 % after 28 d (CO<sub>2</sub> evolution) (not readily biodegradable).</p> <p>P screening criterion is met. However, evidence is presented that an analogue is rapidly biodegradable.</p> <p>Hydrolysis: Hydrolysis of the test item was studied in the dark at 20°C, 50 °C and 60 °C in sterile aqueous buffered solutions at pH 4 (acetate buffer), pH 7 (phosphate buffer) and pH 9 (borate buffer) for 5 days according to EC C.7 (OECD 111). The half-lives of the test item were at pH 4: &gt; 1 year at 25 °C, at pH 7 2.9 days at 20°C, 2.5 days at 25°C, 27 hours at 50 °C and 16 hours at 60 °C, respectively. At pH 9 the half life was 1.2 days at 20 °C. No information provided on hydrolysis products.</p> <p><b>B:</b> Log Kow &gt; 5.7 Only calculated BCF = 71, BCF R-A = 10.7 Concl. from Reg on a calculation: "A n-octanol/water partition coefficient log Kow=12.94 at 25°C was calculated using EPIWIN v3.20, KOWWIN v1.67. Due to missing information about the applicability of the calculation model in respect to the substance under investigation the result should be treated with care." However correlation between log Kow and BCF is not linear for substances with high molecular weight and high log Kow. Therefore the lower limit of the n-octanol/water-partition coefficient (log Know = 5.7) was used for the assessment as a conservative approach.</p> <p>Log Koc &gt;5.6 (strongly adsorptive to soil, sediments and suspended matter)</p> <p><b>T:</b> Fish: LC50 = 1.8 mg/l (based on a.i. content of 75%; 2.4 mg/L nominal) Long-term fish test waived Daphnia: EC50 = 87 µg/L (95% CL: 75 - 100 µg/L) Long-term R-A: The 63d NOEC of &gt;100 µg/L was determined in a 21-day-reproduction test with Daphnia magna over 3 generations. Daphnids were exposed to the effluent of the activated sludge unit containing the degradation products of partially unsaturated IQAC, DMS quaternised.</p>		

<sup>1</sup> CMR/Sensitiser: known carcinogenic and/or mutagenic and/or reprotoxic properties/known sensitising properties (according to CLP harmonized or registrant self-classification or CLP Inventory)

Suspected CMR/Suspected sensitiser: suspected carcinogenic and/or mutagenic and/or reprotoxic properties/suspected sensitising properties (not classified according to CLP harmonized or registrant self-classification)

Suspected PBT: Potentially Persistent, Bioaccumulative and Toxic

Algae: NOEC (72h) = 79 µg/L yield  
 Oleic-acid based IQAC, DMS quaternized is toxic for the environment.  
 Sediment and terrestrial toxicity tests waived.

High RCRs: for sediment: <1 and for agricultural soil > 1 for various scenarios.

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

<input type="checkbox"/> Compliance check, Final decision	<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 ; Biocidal Product Regulation (Regulation (EU) 528/2012)
<input type="checkbox"/> Annex XIV (Authorisation)	<input type="checkbox"/> Other (provide further details below)
<input type="checkbox"/> Annex XVII (Restriction)	
Testing proposal was terminated on administrative grounds. (Endpoint: Sub-chronic toxicity (90-day): oral)	

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

<input type="checkbox"/> Information on toxicological properties	<input type="checkbox"/> Information on physico-chemical properties
<input checked="" type="checkbox"/> Information on fate and behaviour	<input checked="" type="checkbox"/> Information on exposure
<input type="checkbox"/> Information on ecotoxicological properties	<input type="checkbox"/> Information on uses
<input type="checkbox"/> Information ED potential	<input type="checkbox"/> Other (provide further details below)
Could clarify risks to soil and sediment compartment, consider toxicity testing. Consider bioaccumulation potential and biodegradability of all components.	

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

<input type="checkbox"/> Harmonised C&L	<input checked="" type="checkbox"/> Restriction	<input checked="" type="checkbox"/> Authorisation	<input type="checkbox"/> Other (provide further details)
<i>Please provide further details/explanation.</i>			