

Justification Document for the Selection of a CoRAP Substance

Substance Name (public name):	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides
EC Number:	931-292-6
CAS Number:	-
Authority:	UK
Date:	21/03/2017

Cover Note

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

1	IDENTITY OF THE SUBSTANCE	3
1.1	Other identifiers of the substance	3
2	OVERVIEW OF OTHER PROCESSES / EU LEGISLATION	5
3	HAZARD INFORMATION (INCLUDING CLASSIFICATION)	6
3.1	Classification	6
3.1.1	Harmonised Classification in Annex VI of the CLP	6
3.1.2	Self classification	6
3.1.3	Proposal for Harmonised Classification in Annex VI of the CLP	6
4	INFORMATION ON (AGGREGATED) TONNAGE AND USES	7
4.1	Tonnage and registration status	7
4.2	Overview of uses	7
5.	JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CORAP SUBSTANCE	9
5.1.	Legal basis for the proposal	9
5.2.	Selection criteria met (why the substance qualifies for being in CoRAP)	9
5.3	Initial grounds for concern to be clarified under Substance Evaluation	10
5.4	Preliminary indication of information that may need to be requested to clarify the concern	10
5.5	Potential follow-up and link to risk management	10

1 IDENTITY OF THE SUBSTANCE

The following information is given on the ECHA dissemination website.

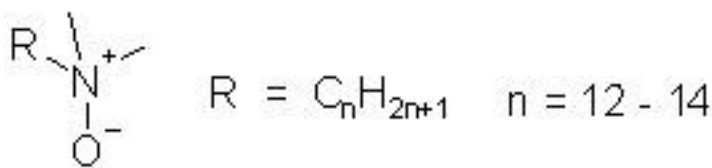
1.1 Other identifiers of the substance

Table: Other Substance identifiers

EC name (public):	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides
IUPAC name (public):	Amines, C12-14 (even numbered) -alkyldimethyl, N-oxides
Index number in Annex VI of the CLP Regulation:	N/A
Molecular formula:	$(C_nH_{2n+1})(CH_3)_2NO$ with $n = 12 - 14$
Molecular weight or molecular weight range:	$229 \leq x \leq 257$
Synonyms:	ADAO_C12-14 / Amines, C12-14-alkyldimethyl, N-oxides; Amines, C12-14-alkyldimethyl, N-oxides; AO-1214-LP.

Type of substance Mono-constituent Multi-constituent UVCB

Structural formula:



Other relevant information about substance composition

A number of compositions are given for this UVCB substance which contain between 2 and 6 of the following constituents (all contain the C₁₂ & C₁₄ amine oxide constituents);

EC Number	Public name	Formula	Structure
216-700-6	Dodecyldimethylamine oxide	C ₁₄ H ₃₁ NO	
222-059-3	N,N-dimethyltetradecylamine N-oxide	C ₁₆ H ₃₅ NO	

2 OVERVIEW OF OTHER PROCESSES / EU LEGISLATION

Table: Completed or ongoing processes

RMOA	<input type="checkbox"/> Risk Management Option Analysis (RMOA)	
REACH Processes	Evaluation	<input type="checkbox"/> Compliance check, Final decision
		<input type="checkbox"/> Testing proposal, Final decision
		<input type="checkbox"/> CoRAP and Substance Evaluation
	Authorisation	<input type="checkbox"/> Candidate List
		<input type="checkbox"/> Annex XIV
Restriction	<input type="checkbox"/> Annex XVII	
Harmonised C&L	<input type="checkbox"/> Annex VI (CLP) (see section 3.1)	
Processes under other EU legislation	<input type="checkbox"/> Plant Protection Products Regulation Regulation (EC) No 1107/2009	
	<input type="checkbox"/> Biocidal Product Regulation Regulation (EU) 528/2012 and amendments	
Previous legislation	<input type="checkbox"/> Dangerous substances Directive Directive 67/548/EEC (NONS)	
	<input type="checkbox"/> Existing Substances Regulation Regulation 793/93/EEC (RAR/RRS)	
(UNEP) Stockholm convention (POPs Protocol)	<input type="checkbox"/> Assessment	
	<input type="checkbox"/> In relevant Annex	

Other processes / EU legislation	<input checked="" type="checkbox"/> Other (provide further details below)
<p>The category <i>Amine Oxides</i> has been assessed under the OECD HPV programme.</p> <p>OECD SIDS http://webnet.oecd.org/hpv/ui/SIDS_Details.aspx?id=b927b43d-8e91-4ada-80e3-720d634e01c0</p>	

3 HAZARD INFORMATION (INCLUDING CLASSIFICATION)

3.1 Classification

3.1.1 Harmonised Classification in Annex VI of the CLP

Not applicable – substance does not have a harmonised classification.

3.1.2 Self classification

- In the registration:

Acute Tox 4 (oral), H302

Skin Irrit. 2, H315

Eye damage 1, H318

Aquatic acute 1, H400

Aquatic Chronic 2, H411

No additional hazards are listed in the C&L inventory

3.1.3 Proposal for Harmonised Classification in Annex VI of the CLP

Not applicable.

4 INFORMATION ON (AGGREGATED) TONNAGE AND USES¹

4.1 Tonnage and registration status

Table: Tonnage and registration status

From ECHA dissemination site		
<input checked="" type="checkbox"/> Full registration(s) (Art. 10)	<input type="checkbox"/> Intermediate registration(s) (Art. 17 and/or 18)	
Tonnage band (as per dissemination site)		
<input type="checkbox"/> 1 – 10 tpa	<input type="checkbox"/> 10 – 100 tpa	<input type="checkbox"/> 100 – 1000 tpa
<input type="checkbox"/> 1000 – 10,000 tpa	<input checked="" 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

4.2 Overview of uses

ECHA's publicly accessible website (accessed 31/5/2016) gives the following information:

This substance is used in the following products: washing & cleaning products, cosmetics and personal care products, laboratory chemicals, polishes and waxes, metal working fluids and water treatment chemicals.

This substance is used in the following areas: formulation of mixtures and/or re-packaging and agriculture, forestry and fishing. This substance is used for the manufacture of: textile, leather or fur.

Release to the environment of this substance is likely to occur from industrial use: formulation of mixtures, in processing aids at industrial sites and manufacturing of the substance. Other release to the environment of this substance is likely to occur from: indoor use (e.g. machine wash liquids/detergents, automotive care products, paints and coating or adhesives, fragrances and air fresheners).

¹ ECHA dissemination site accessed 31/5/2016.

Table: Uses

Part 1:

<input checked="" type="checkbox"/> Manufacture	<input checked="" type="checkbox"/> Formulation	<input checked="" type="checkbox"/> Industrial use	<input checked="" type="checkbox"/> Professional use	<input checked="" type="checkbox"/> Consumer use	<input type="checkbox"/> Article service life	<input type="checkbox"/> Closed system
---	---	--	--	--	---	--

Part 2:

	Use(s)
Uses as intermediate	
Formulation	Formulation of preparations (laboratory chemicals; metal working fluids; polishes and wax blends; washing and cleaning products (including solvent based products); water treatment chemicals; cosmetics/personal care products
Uses at industrial sites	Use of detergents
Uses by professional workers	Use in detergents
Consumer Uses	Use in detergents and cosmetic products
Article service life	

Part 3: There is high potential for exposure of

<input checked="" type="checkbox"/> Humans	<input type="checkbox"/> Environment
--	--------------------------------------

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

The substance has consumer uses and there is a high potential for exposure of humans. Therefore, it is important to properly clarify the hazards and ensure that any risks are properly managed.

5.3 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 ¹ <input type="checkbox"/> C <input type="checkbox"/> M <input checked="" type="checkbox"/> R	<input type="checkbox"/> Potential endocrine disruptor
<input type="checkbox"/> Sensitiser	<input type="checkbox"/> Suspected Sensitiser ²	
<input type="checkbox"/> PBT/vPvB	<input type="checkbox"/> Suspected PBT/vPvB ¹	<input checked="" 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 type="checkbox"/> Exposure of environment	<input type="checkbox"/> Exposure of workers	<input type="checkbox"/> Cumulative exposure
<input type="checkbox"/> High RCR	<input type="checkbox"/> High (aggregated) tonnage	<input type="checkbox"/> Other (please specify below)
<p>In a developmental toxicity screening study, an increased incidence of post-implantation and post-natal loss was observed, along with reduced pup weights. In a developmental toxicity study, reduced pup weights and increased incidences of foetuses and litters with alterations (linked to reduced ossification) were observed. The registrants have not classified the substance for developmental toxicity. Substance evaluation is required to assess the available data to determine whether classification for developmental toxicity is appropriate.</p> <p>In repeated dose toxicity studies, effects in the eyes were noted (moderate to severe bilateral cataracts, lenticular opacities and lenticular lesions). The substance is not classified for repeated dose toxicity. Substance evaluation is required to investigate whether these effects pose a risk to human health. This would involve a detailed assessment of the available studies, and possibly a request for further data on the eye effects.</p>		

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

<input checked="" 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"/> Information on ED potential	<input type="checkbox"/> Other (provide further details below)
<p>Non-standard toxicological testing may be required to further investigate the eye effects (e.g., detailed histopathological investigations).</p>	

5.5 Potential follow-up and link to risk management

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

The substance has consumer uses and there is a high potential for exposure of humans. It is important therefore to ensure that the substance has the appropriate classification and labelling to ensure that the risks are properly managed.

² 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