



Justification Document for the Selection of a CoRAP Substance

Substance Name (public name):	bis(2-ethylhexyl) amine
EC Number:	203-372-4
CAS Number:	106-20-7
Authority:	Portuguese Environment Agency, PT
Date:	17/03/2015 21/03/2017 (withdrawn) 19/03/2019 (update)

Cover Note

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

Table of Contents

1	IDENTITY OF THE SUBSTANCE	3
1.1	Other identifiers of the substance	3
2	OVERVIEW OF OTHER PROCESSES / EU LEGISLATION	4
3	HAZARD INFORMATION (INCLUDING CLASSIFICATION)	5
3.1	Classification	5
3.1.1	Harmonised Classification in Annex VI of the CLP	5
3.1.2	Self classification	5
3.1.3	Proposal for Harmonised Classification in Annex VI of the CLP	5
4	INFORMATION ON (AGGREGATED) TONNAGE AND USES	6
4.1	Tonnage and registration status	6
4.2	Overview of uses	6
5.	JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CORAP SUBSTANCE	8
5.1.	Legal basis for the proposal	8
5.2.	Selection criteria met (why the substance qualifies for being in CoRAP)	8
5.3	Initial grounds for concern to be clarified under Substance Evaluation	8
5.4	Preliminary indication of information that may need to be requested to clarify the concern	9
5.5	Potential follow-up and link to risk management	10

1 IDENTITY OF THE SUBSTANCE

1.1 Other identifiers of the substance

Table: Other Substance identifiers

EC name (public):	Bis(2-ethylhexyl)amine
IUPAC name (public):	2-ethyl-N-(2-ethylhexyl)hexan-1-amine
Index number in Annex VI of the CLP Regulation:	
Molecular formula:	C ₁₆ H ₃₅ N
Molecular weight or molecular weight range:	241.4558 g/mol
Synonyms:	

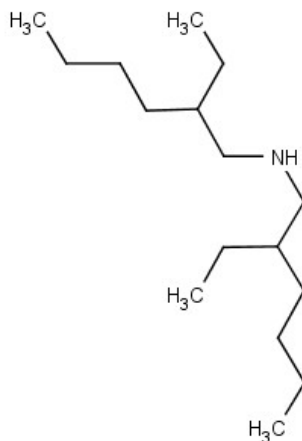
Type of substance

Mono-constituent

Multi-constituent

UVCB

Structural formula:



Other relevant information about substance composition

1.2 Similar substances/grouping possibilities

Has read-across been used by the registrant for the concern related endpoints?

Yes

No

Is the substance a member of a category?

Yes

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 checked="" 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 ¹	
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	

¹ Please specify the relevant entry.

Other processes / EU legislation	<input type="checkbox"/> Other (provide further details below)

3 HAZARD INFORMATION (INCLUDING CLASSIFICATION)

3.1 Classification

3.1.1 Harmonised Classification in Annex VI of the CLP

Substance is not listed in Annex VI CLP.

3.1.2 Self classification

- In the registration:
 - Acute Tox. 4 H302: Harmful if swallowed.
 - Acute Tox. 3 H311: Toxic in contact with skin.
 - Acute Tox. 3 H331: Toxic if inhaled.
 - Skin Corr. 1B H314: Causes severe skin burns and eye damage.
 - Eye Damage 1 H318: Causes serious eye damage.
 - STOT Single Exp. 3 H335: May cause respiratory irritation.
 - Aquatic Chronic 1 H410: Very toxic to aquatic life with long lasting effects.
 - M-Factor chronic: 1

- The following hazard classes are in addition notified among the aggregated self classifications in the C&L Inventory:
 - Acute Tox. 2 H330: Fatal if inhaled.
 - Acute Tox. 4 H312: Harmful in contact with skin.
 - Skin Corr. 1C H314: Causes severe skin burns and eye damage.
 - Skin Corr. 1A H314: Causes severe skin burns and eye damage.
 - Aquatic Chronic 2 H411: Toxic to aquatic life with long lasting effects.

3.1.3 Proposal for Harmonised Classification in Annex VI of the CLP

None.

4 INFORMATION ON (AGGREGATED) TONNAGE AND USES²

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 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 checked="" type="checkbox"/> 1+ tpa (e.g. 10+ ; 100+ ; 10,000+ tpa)		<input type="checkbox"/> Confidential
Joint submission		

*the total tonnage band has been calculated by excluding the intermediate uses, for details see the Manual for Dissemination and Confidentiality under REACH Regulation (section 2.6.11):

https://echa.europa.eu/documents/10162/22308542/manual_dissemination_en.pdf/7e0b87c2-2681-4380-8389-cd655569d9f0

4.2 Overview of uses

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 type="checkbox"/> Consumer use	<input type="checkbox"/> Article service life	<input type="checkbox"/> Closed system
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Part 2:

	Use(s)
Uses as intermediate	Uses at industrial sites.
Formulation	Industrial formulation of lubricant additives.

² Dissemination site was accessed on 1st June 2018.

JUSTIFICATION DOCUMENT FOR THE SELECTION OF A CORAP SUBSTANCE

Uses at industrial sites	Use as intermediate not under strictly controlled conditions.
Uses by professional workers	Use in functional fluids (closed and open systems) including outdoor uses.
Consumer Uses	
Article service life	

Part 3: There is high potential for exposure of

<input type="checkbox"/> Humans	<input checked="" type="checkbox"/> Environment
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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
 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 <input type="checkbox"/> C <input type="checkbox"/> M <input type="checkbox"/> R	Suspected CMR ¹ <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 ³	
<input type="checkbox"/> PBT/vPvB	<input checked="" type="checkbox"/> Suspected PBT/vPvB ¹	<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 type="checkbox"/> High RCR	<input type="checkbox"/> High (aggregated) tonnage	<input type="checkbox"/> Other (please specify below)

³ 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)

The substance is fulfilling the screening criteria for persistence and bioaccumulation as defined in Annex XIII of REACH Regulation.

P/vP criterion

The available experimental results are conflicting, and the available data do not allow assessing degradation in environmental compartments. Therefore, the substance is considered to be potentially persistent.

B/vB criterion

There are no test data on bioaccumulation and the estimation models used to assess bioaccumulation are not adequate for the substance, with the exception of the model BCFBAF v3.01 (EPI Suite v4.11) with an estimated BCF of 2402 L/kg. Therefore bis(2-ethylhexyl) amine is considered to be potentially bioaccumulative.

T criterion

The registrants classified the substance as Aquatic Chronic 1 (H410). Long-term data on aquatic ecotoxicology are available for invertebrates and algae (NOEC >0.01 mg/L). Based on the available data, a definitive conclusion on toxicity cannot be drawn.

Therefore, it is considered necessary to assess this substance in order to conclude if further information is required and if the substance constitutes a risk to the environment.

5.4 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 type="checkbox"/> Information on exposure
<input checked="" 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)

There is a need to further clarify degradation, bioaccumulation and ecotoxicity of this substance.

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

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5.5 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)
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If the substance is identified as a PBT/vPvB substance or if risks are not adequately controlled, an analysis of risk management options shall be performed, taking into account information on use and exposure.