



## Justification Document for the Selection of a CoRAP Substance

<b>Substance Name (public name):</b>	<b>4,4'-Isopropylidenediphenol, ethoxylated (BPA EO)</b>
<b>EC Number:</b>	<b>500-082-2</b>
<b>CAS Number:</b>	<b>32492-61-8</b>
<b>Authority:</b>	<b>FR MSCA</b>
<b>Date:</b>	<b>22/03/2016</b>

### **Note**

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

## Table of Contents

<b>1</b>	<b>IDENTITY OF THE SUBSTANCE</b>	<b>3</b>
1.1	Other identifiers of the substance	3
1.2	Similar substances/grouping possibilities	3
<b>2</b>	<b>OVERVIEW OF OTHER PROCESSES / EU LEGISLATION</b>	<b>4</b>
<b>3</b>	<b>HAZARD INFORMATION (INCLUDING CLASSIFICATION)</b>	<b>5</b>
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
3.2	Other information	5
<b>4</b>	<b>INFORMATION ON (AGGREGATED) TONNAGE AND USES</b>	<b>6</b>
4.1	Tonnage and registration status	6
4.2	Overview of uses	7
<b>5.</b>	<b>JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CORAP SUBSTANCE</b>	<b>8</b>
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	9

## 1 IDENTITY OF THE SUBSTANCE

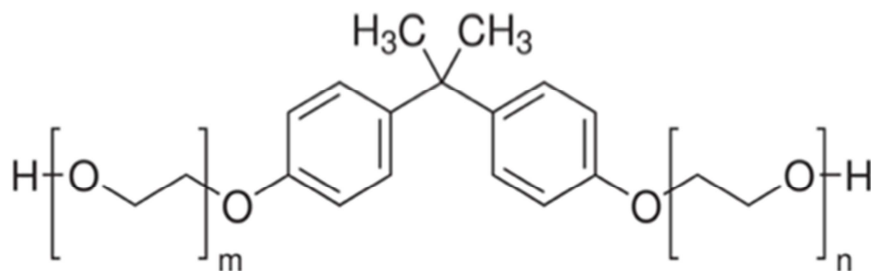
### 1.1 Other identifiers of the substance

**Table 1: Other Substance identifiers**

<b>EC name (public):</b>	4,4'-Isopropylidenediphenol,ethoxylated
<b>IUPAC name (public):</b>	2-[4-[2-[4-(2-hydroxyethoxy)phenyl]propan-2-yl]phenoxy]ethanol
<b>Index number in Annex VI of the CLP Regulation:</b>	Not assigned
<b>Molecular formula:</b>	Not applicable for a UVCB
<b>Molecular weight or molecular weight range:</b>	316-448 g/mol
<b>Synonyms:</b>	DIANOL - SIMULSOL

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

**Structural formula:**



UVCB based on the expected variation of the alkyl chain length (n and m).

### 1.2 Similar substances/grouping possibilities

**Structural formula:** Close to BPA, only the length of the chain in para varies, but same biphenyls with 2 methyl.

## 2 OVERVIEW OF OTHER PROCESSES / EU LEGISLATION

**Table 2: 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
		<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 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**

No existing harmonised classification

##### **3.1.2 Self classification**

- In the registration:

Aquatic Chronic 3 H412

- The following hazard classes are in addition notified among the aggregated self classifications in the C&L Inventory:
  - Acute Tox. 4 H302
  - Skin Irrit. 2 H315
  - Skin Sens. 1 H317
  - Eye Irrit. 2 H319
  - STOT SE 3 H335
  - Not classified (29 notifiers)

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

Not applicable

#### **3.2 Other information**

Some *in vitro* mutagenicity result appears equivocal for BPA EO on *in vitro* mammalian chromosome aberration test with metabolic activation and positive result without metabolic activation. These results do not allow a clear conclusion regarding mutagenicity of the substance, so additional data are requested to complete the dossier.

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

### 4.1 Tonnage and registration status

**Table 3: Tonnage and registration status**

<b>From ECHA dissemination site</b>		
<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 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 - 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
Joint submission		

<sup>1</sup> Please provide here the date when the dissemination site was accessed.

## 4.2 Overview of uses

**Table 4: 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 checked="" type="checkbox"/> Article service life	<input type="checkbox"/> Closed system
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**Part 2:**

	<b>Use(s)</b>
<b>Formulation</b>	Used in resins in formulation of toner (ink and toner) ; used for production of UV/EB curing resins ; used for production of anti-static agents for plastics ; Formulation of plastics compounded with anti-static agents; Use as a sizing agent for carbon fibre ; Formulation of anti-static agents compounded plastics
<b>Uses at industrial sites</b>	Production of UV/EB curing resins ( adhesives, sealants, coatings and paintes, thinners, paint removes, ink and toners) ; Production of resins for toners ; Production of monomers as raw materials for UV/EB curing resins ; Production of anti-static agents ; Molding of the plastic article ; Use for production of sizing agents for carbon fibre ; use as intermediate
<b>Uses by professional workers</b>	Filling and refilling of toners to cartridges ; Maintenance of imaging equipment ; Moulding plastic articles ; Use of carbon fibre ; Laboratory reagent
<b>Consumer Uses</b>	Toner in imaging equipment , laboratory reagent, plastic articles
<b>Article service life</b>	Use of plastic articles; Use of carbon fibre ;

## 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 <sup>1</sup> <input type="checkbox"/> C <input checked="" type="checkbox"/> M <input type="checkbox"/> R	<input checked="" type="checkbox"/> Potential endocrine disruptor
<input type="checkbox"/> Sensitiser	<input type="checkbox"/> Suspected Sensitiser <sup>2</sup>	
<input type="checkbox"/> PBT/vPvB	<input type="checkbox"/> Suspected PBT/vPvB <sup>1</sup>	<input type="checkbox"/> Other (please specify below)
Exposure/risk based concerns		
<input checked="" 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 checked="" type="checkbox"/> High (aggregated) tonnage	<input type="checkbox"/> Other (please specify below)

<sup>2</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



A concern was identified for genotoxicity, because of equivocal results for chromosome aberration *in vitro*, and no *in vivo* test is available.

Concerning environment, no ED concern was identified for human health but still need to be clarified for environment, in light of the fact that the substance has wide dispersive uses and has an high tonnage.

Additionally the substance has a high aggregated tonnage and has wide dispersive uses.

**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 checked="" 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 ED potential	<input type="checkbox"/> Other (provide further details below)

**Environment**

BPA EO is a substance inherently biodegradable but not readily biodegradable with a low potential of bioaccumulation and a low aquatic toxicity. The persistent behavior of BPA EO is a concern due to its low degradation. Further analysis regarding biodegradation of BPA EO and identification of its byproducts are needed. If BPA are by-products of BPA EO, a concern for ED could be expected.

As BPA EO is classified as Aquatic Chronic 3 H412 in the registration dossier, an exposure assessment is missing in the dossier.

**Human Health**

As an *in vitro* mutagenicity result is equivocal for BPA EO on *in vitro* mammalian chromosome aberration test with metabolic activation and positive result without metabolic activation. An *in vivo* toxicological assessment on the mutagenicity of BPA EO is missing in the dossier.

The mutagenicity evaluation might be performed under substance evaluation. While evaluating, an extended one generation study might be requested to obtain information regarding on reproductive and developmental effects of BPA EO.

**5.5. Potential follow-up and link to risk management**

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