

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

<b>Substance Name (Public Name):</b>	4,4'-(1,3-phenylene-bis(1-methylethylidene))bisphenol
<b>Chemical Group:</b>	bisphenol
<b>EC Number:</b>	428-970-4
<b>CAS Number:</b>	13595-25-0
<b>Submitted by:</b>	Belgium
<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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## 1 IDENTITY OF THE SUBSTANCE

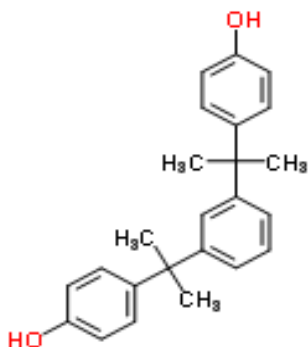
### 1.1 Other identifiers of the substance

Table 1: Substance identity

EC name:	NA
IUPAC name:	4,4'-(1,3-phenylene-bis(1-methylethylidene))bisphenol
Index number in Annex VI of the CLP Regulation	604-079-00-8
Molecular formula:	C <sub>24</sub> H <sub>26</sub> O <sub>2</sub>
Molecular weight or molecular weight range:	346.46 g/mol
Synonyms/Trade names:	CAS name = phenol, 4,4'-[1,3-phenylenebis(1-methylethylidene)]bis- Bisphenol-M

Type of substance     Mono-constituent     Multi-constituent     UVCB

Structural formula:



### 1.2 Similar substances/grouping possibilities

NA

## 2 CLASSIFICATION AND LABELLING

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

Repr. 2; H361f: Suspected of damaging fertility.

Skin Sens. 1; H317: May cause an allergic skin reaction.

Aquatic chronic 2; H411: Toxic to aquatic life with long lasting effects.

Signal word: Warning Pictograms: GHS08, GHS09

### 2.2 Self classification

- In the registration  
Same as the harmonised
- The following hazard classes are in addition notified among the aggregated self classifications in the C&L Inventory:  
Same as the harmonised

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

NA

## 3 INFORMATION ON AGGREGATED TONNAGE AND USES

From ECHA dissemination site			
<input type="checkbox"/> 1 – 10 tpa	<input checked="" 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 type="checkbox"/> <1 . . . . . >+ tpa (e.g. 10+ ; 100+ ; 10,000+ tpa)		<input checked="" type="checkbox"/> Confidential	
There is also one NONS registration with confidential tonnage.			
<input checked="" type="checkbox"/> Industrial use	<input type="checkbox"/> Professional use	<input checked="" type="checkbox"/> Consumer use	<input type="checkbox"/> Closed System
<u>Industrial uses:</u>			
Polymerisation (used in closed process)			
Article service life: Plastic articles			

## 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	Suspected Sensitiser <sup>1</sup>	
<input type="checkbox"/> PBT/vPvB	<input checked="" type="checkbox"/> Suspected PBT/vPvB <sup>1</sup>	<input checked="" type="checkbox"/> Other (please specify below)
Exposure/risk based concerns		
<input type="checkbox"/> Wide dispersive use	<input checked="" 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)

<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

Persistency:

In a ready biodegradability test, 30.7% degradation is seen after 28 days. The substance is not readily biodegradable.

No further testing available.

Bioaccumulation:

Log Kow value close to the cut-off value, namely 4.3. However, QSAR data provide higher LogKow values.

No further testing available.

Toxicity:

The T criterion is fulfilled given that the substance is classified as Toxic for Reproduction Category 2.

Other:

The substance belongs to the bisphenol group, so some further assessment to clarify the similarities (possible ED properties) might be initiated if warranted.

Exposure:

Potential exposure related to the plastic articles should be further clarified.

**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)	
Information on other completed/ongoing regulatory processes was not found.	

#### 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)

This substance is considered to be a potential PBT substance. The definitive T-criterion is met. Screening data for P do not allow to draw a conclusion. Experimental screening data for B indicate that the value is close to the cut-off value and QSAR predictions even show values fulfilling the cut-off.

It is not clear whether the plastic articles create exposure to the environment or to consumers.

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

<input type="checkbox"/> Harmonised C&L	<input type="checkbox"/> Restriction	<input checked="" type="checkbox"/> Authorisation	<input type="checkbox"/> Other (provide further details)
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Depending on the outcome of the evaluation any of the above mentioned RMMs could be initiated if warranted.