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# Justification for the selection of a substance for CoRAP inclusion

**Substance Name (Public Name):** p-(1,1-dimethylpropyl)phenol

**Chemical Group:** 

**EC Number**: 201-280-9

**CAS Number:** 80-46-6

Submitted by: Germany

**Published:** 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

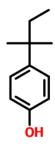
#### 1.1 Other identifiers of the substance

**Table 1: Substance identity** 

EC name:	p-(1,1-dimethylpropyl)phenol			
IUPAC name:	4-(1,1-Dimethylpropyl)phenol			
Index number in Annex VI of the CLP Regulation	n.a.			
Molecular formula:	C <sub>11</sub> H <sub>16</sub> O			
Molecular weight or molecular weight range:	164.24 g/mol			
Synonyms/Trade names:	4-(1,1-Dimethylpropyl)phenol p-tert-Amylphenol p-tert-Pentylphenol Phenol, p-(1,1-dimethylpropyl)- (5CI); Phenol, p-tert-pentyl- (6CI,8CI); 4-t-Amylphenol; 4-t-Pentylphenol; 4-tert-Amylphenol; 4-tert-Pentylphenol; Amilfenol; BirexSE; NSC 403672; NSC 4965; p-(a,a-Dimethylpropyl)phenol;			

Type of substance		☐ Multi-constituent	☐ UVCB
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#### Structural formula:



### 1.2 Similar substances/grouping possibilities

None

#### 2 CLASSIFICATION AND LABELLING

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

There is no harmonized classification of p-(1,1-dimethylpropyl)phenol according to Annex VI of Regulation (EC) No 1272/2008.

#### 2.2 Self classification

• In the registration

Classifica	ation	L	Specific Concentration	
Hazard Class and Category Code(s)	Hazard Statement Code(s)	Hazard Statement Code(s)	Supplementary Hazard Statement Code(s)	limits, M- Factors
Skin Sens. 1	H317	H317		
Skin Corr. 1B	H314	H314		
Eye Dam. 1	H318			
Aquatic Chronic 1	H410	H410		
STOT SE 3	H335			

Signal Words: Danger Pictograms: GHS05, GHS07, GHS09

• The following hazard classes are in addition notified among the aggregated self classifications in the C&L Inventory:

Classific	ation		Specific	
Hazard Class and Category Code(s)	Hazard Statement Code(s)	Hazard Statement Code(s)	Supplementary Hazard Statement Code(s)	Concentration limits, M- Factors
Skin Sens. 1B	H317	H317		
Skin Corr. 1A	H314	H314		
Skin Corr. 1C	H314	H314		
Acute Tox. 4	H332	H332		
Acute Tox. 4	H302	H302		
Acute Tox. 4	H312	H312		
Skin Irr 2 Aquatic Acute 1 Aqua Chronic 2	H315 H400 H411	H411		
Not Classified				

Other Signal Words: Warning Other Pictograms: GHS08

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

None

#### **3 INFORMATION ON AGGREGATED TONNAGE AND USES**

From ECHA dissemination site						
☐ 1 – 10 tpa		☐ 10 – 100 tpa				
☐ 1000 – 10,000 tpa		☐ 10,000 – 100,000 tpa		☐ 100,000 – 1,000,000 tpa		
1,000,000 – 10,000,00	00 tpa	□ 10,000,000 –	100,000,000 tpa	☐ > 100,000,000 tpa		
☐ <1 > ·	+ tpa (e.	g. 10+ ; 100+ ; 1	0,000+ tpa)	☐ Confidential		
	⊠ Profe	essional use 🛮 Consumer use			☐ Closed System	
also used in the productio Other use categories are of products are given: adhes	The substance p-(1,1-dimethylpropyl)phenol is used in the production of phenolic resins and lacquers. It is also used in the production of ethoxylated resins, some of which are used in oilfield applications. Other use categories are cleaning/washing agents, surface active agents, paints. Also use in consumer products are given: adhesive, sealants, coatings and paints, thinners and paint removes. A wide dispersive use can be assumed.					
4 JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CORAP SUBSTANCE 4.1 Legal basis for the proposal						
		NCE		THE C	ANDIDATE	
4.1 Legal ba	isis for	NCE the proposa				
4.1 Legal ba	nsis for	the proposa	ıl			
4.1 Legal ba  Article 44(2) (  Article 45(5) (  4.2 Selection  Fulfils criteria  Fulfils criteria  Fulfils criteria  Fulfils criteria	refined particles as CMR as Sensa as PBT/	the proposal orioritisation criter (State priority)  ria met / Suspected CMF (itiser/ Suspected solution)	eria for substance	e evalua		
4.1 Legal ba  Article 44(2) (  Article 45(5) (  4.2 Selection  Fulfils criteria  Fulfils criteria  Fulfils criteria  Fulfils criteria	refined particles for crite as CMR as Sens as poter as PBT/a high (agure criter)	rthe proposal prioritisation criter State priority)  ria met / Suspected CMF itiser/ Suspected shitial endocrine dispression of the company o	eria for substance ensitiser eupter d PBT/vPvB	e evalua		

### 4.3 Initial grounds for concern to be clarified under Substance Evaluation

Hazard based concerns						
CMR □C □M □R	Suspected CMR <sup>1</sup>	□ Potential endocrine disruptor				
Sensitiser	☐ Suspected Sensitise	r <sup>1</sup>				
☐ PBT/vPvB	☐ Suspected PBT/vPv	Other (please specify below)				
Exposure/risk based concerns						
☐ Wide dispersive use	□ Consumer use	Exposure of sensitive populations				
☐ Exposure of environment	☐ Exposure of worker	Cumulative exposure				
☐ High RCR	☐ High (aggregated)	onnage				
p-(1,1-dimethylpropyl)phenol give	s evidence for being an	endocrine disruptors for the environment:				
		nethylpropyl)phenol to be an endocrine tes. The potency is approx. in the same				
There are also in vivo studies for for the WHO/IPCS:	There are also in vivo studies for fishes available that show effects due to the definition of the					
system and consequently causes a	"An endocrine disrupter is an exogenous substance or mixture that alters function(s) of the endocrine system and consequently causes adverse health effects in an intact organism, or its progeny, or (sub)populations" (IPCS/WHO; cited in (European Commission, 1999)).					
	Effects appeared in several species of fish that showed p-(1,1-dimethylpropyl)phenol to have endocrine properties (indicative effects). So for example vitellogenin in fishes is elevated. Also adverse effects for					
However no clear conclusion about endocrine disrupting properties of p-(1,1-dimethylpropyl)phenol is possible yet. Therefore a substance evaluation of p-(1,1-dimethylpropyl)phenol is proposed.						
4.4 Other completed/ongoing regulatory processes that may affect suitability for substance evaluation						
Compliance check, Final decision	☐ Dangero	us substances Directive 67/548/EEC				
Testing proposal	☐ Existing	☐ Existing Substances Regulation 793/93/EEC				
Annex VI (CLP)	☐ Plant Pro	tection Products Regulation 91/414/EEC				
Annex XV (SVHC)		☐ Biocidal Products Directive 98/8/EEC; Biocidal Product Regulation (Regulation (EU) 528/2012)				
Annex XIV (Authorisation)	Other (p	ovide further details below)				
Annex XVII (Restriction)						

Suspected PBT: Potentially Persistent, Bioaccumulative and Toxic

<sup>1 &</sup>lt;u>CMR/Sensitiser</u>: known carcinogenic and/or mutagenic and/or reprotoxic properties/known sensitising properties (according to CLP harmonized or registrant self-classification or CLP Inventory) <u>Suspected CMR/Suspected sensitiser</u>: suspected carcinogenic and/or mutagenic and/or reprotoxic properties/suspected sensitising properties (not classified according to CLP harmonized or registrant self-classification)

#### JUSTIFICATION DOCUMENT FOR THE SELECTION OF A CORAP SUBSTANCE

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

☐ Information on toxico	ological properties	☐ Information	☐ Information on physico-chemical properties			
☐ Information on fate a	and behaviour	☐ Information	☐ Information on exposure			
☐ Information on ecoto	xicological properties	☐ Information	☐ Information on uses			
☐ Information ED poter	ntial	☐ Other (provi	Other (provide further details below)			
Information on ED poter studies including fish se	<u> </u>	•	the request of relevant fish toxicity			
4.6 Potential follow-up and link to risk management						
☐ Harmonised C&L	☐ Other (provide further details)					
If concern is substantiated a SVHC-identification according to art. 57 f will be proposed.						