

Substance Name: 2,2-bis(4'-hydroxyphenyl)-4-methylpentane

EC Number: 401-720-1

CAS Number: 6807-17-6

SUPPORT DOCUMENT FOR IDENTIFICATION OF
2,2-BIS(4'-HYDROXYPHENYL)-4-METHYLPENTANE
AS A SUBSTANCE OF VERY HIGH CONCERN BECAUSE
OF ITS TOXIC FOR REPRODUCTION (ARTICLE 57C)
PROPERTIES

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IDENTIFICATION OF A SUBSTANCE OF VERY HIGH CONCERN ON THE BASIS OF THE CRITERIA SET OUT IN REACH ARTICLE 57

Substance Name: 2,2-bis(4'-hydroxyphenyl)-4-methylpentane

EC Number: 401-720-1

CAS number: 6807-17-6

- The substance is identified as a substance meeting the criteria of Article 57 (c) of Regulation (EC) No 1907/2006 (REACH) owing to its classification in the hazard class toxic for reproduction category 1B¹.

Summary of how the substance meets the criteria set out in Article 57 of the REACH Regulation

2,2-bis(4'-hydroxyphenyl)-4-methylpentane (4,4'-isobutylethylidenediphenol)² is covered by index number 604-024-00-8 of Regulation (EC) No 1272/2008 in Annex VI, part 3, Table 3.1 (the list of harmonised classification and labelling of hazardous substances) and it is classified in the hazard class toxic for reproduction category 1B (hazard statement H360F: 'May damage fertility').

Therefore, this classification of the substance in Regulation (EC) No 1272/2008 shows that it meets the criteria for classification in the hazard class:

- Toxic for reproduction category 1B in accordance with Article 57 (c) of REACH.

Registration dossiers submitted for the substance? Yes (NONS registration)

¹ H360F: 'May damage fertility'

² Synonym name in Annex VI, Table 3.1 of Regulation (EC) No 1272/2008.

Justification

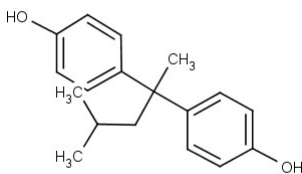
1. Identity of the substance and physical and chemical properties

1.1 Name and other identifiers of the substance

Table 1: Substance identity

EC number:	401-720-1
EC name:	2,2-bis(4'-hydroxyphenyl)-4-methylpentane
CAS number (in the EC inventory):	6807-17-6
CAS number: Deleted CAS numbers:	
CAS name:	
IUPAC name:	4-[2-(4-hydroxyphenyl)-4-methylpentan-2-yl]phenol
Index number in Annex VI of the CLP Regulation	604-024-00-8
Molecular formula:	C ₁₈ H ₂₂ O ₂
Molecular weight range:	270.372 g/mol
Synonyms:	4,4-isobutylethylidenediphenol

Structural formula:



1.2 Composition of the substance

Name: 2,2-bis(4'-hydroxyphenyl)-4-methylpentane

Description: organic

Substance type: mono-constituent

1.3 Physicochemical properties

Not relevant for the identification of the substance as SVHC in accordance with Article 57 (c) REACH.

2. Harmonised classification and labelling

2,2-bis(4'-hydroxyphenyl)-4-methylpentane (4,4-isobutylethylidenediphenol*) is covered by Index number 604-024-00-8 in part 3 of Annex VI to the CLP Regulation as follows:

Table 2: Classification according to Annex VI, Table 3.1 (list of harmonised classification and labelling of hazardous substances) of Regulation (EC) No 1272/2008

Index No	International Chemical Identification	EC No	CAS No	Classification		Labelling			Spec. Conc. Limits, M-factors	Notes
				Hazard Class and Category Code(s)	Hazard statement code(s)	Pictogram, Signal Word Code(s)	Hazard statement code(s)	Suppl. Hazard statement code(s)		
604-024-00-8	4,4-isobutylethylidenediphenol	401-720-1	6807-17-6	Repr. 1B Eye Irrit. 2 Aquatic Acute 1 Aquatic Chronic 1	H360F** H319 H400 H410	GHS08 GHS09 Dgr	H360F** H319 H410			

*Synonym name used in Annex VI, Table 3.1 of Regulation (EC) No 1272/2008.

**Harmonised classifications for fertility and developmental effects under Directive 67/548/EEC.

3. Environmental fate properties

Not relevant for the identification of the substance as SVHC in accordance with Article 57 (c) REACH.

4. Human health hazard assessment

See sections 2 and 6.1 of this Support Document.

5. Environmental hazard assessment

Not relevant for the identification of the substance as SVHC in accordance with Article 57 (c) REACH.

6. Conclusions on the SVHC Properties

6.1 CMR assessment

2,2-bis(4'-hydroxyphenyl)-4-methylpentane (4,4-isobutylethylidenediphenol)³ is covered by index number 604-024-00-8 of Regulation (EC) No 1272/2008 in Annex VI, part 3, Table 3.1 (the list of harmonised classification and labelling of hazardous substances) and it is classified in the hazard class toxic for reproduction category 1B (H360F 'May damage fertility').

Therefore, this classification of the substance in Regulation (EC) No 1272/2008 shows that it meets the criteria for classification in the hazard class:

- Toxic for reproduction category 1B in accordance with Article 57 (c) of REACH.

³ Synonym used in Annex VI, Table 3.1 of Regulation (EC) No 1272/2008.

References

- EU (2006). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/
- EU (2008). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.