

**Substance Name: 2,2',6,6'-tetrabromo-4,4'-
isopropylidenediphenol**

EC Number: 201-236-9

CAS Number: 79-94-7

SUPPORT DOCUMENT FOR IDENTIFICATION OF

**2,2',6,6'-TETRABROMO-4,4'-
ISOPROPYLIDENEDIPHENOL**

**AS A SUBSTANCE OF VERY HIGH CONCERN BECAUSE
OF ITS CARCINOGENIC (ARTICLE 57A) PROPERTIES**

CONTENTS

IDENTIFICATION OF A SUBSTANCE OF VERY HIGH CONCERN ON THE BASIS OF THE CRITERIA SET OUT IN REACH ARTICLE 57	4
JUSTIFICATION	5
1. IDENTITY OF THE SUBSTANCE AND PHYSICAL AND CHEMICAL PROPERTIES	5
1.1 Name and other identifiers of the substance	5
1.2 Composition of the substance	5
1.3 Identity and composition of degradation products/metabolites relevant for the SVHC assessment	6
1.4 Identity and composition of structurally related substances (used in a grouping or read-across approach).....	6
1.5 Physicochemical properties	6
2. HARMONISED CLASSIFICATION AND LABELLING	7
3. ENVIRONMENTAL FATE PROPERTIES.....	7
4. HUMAN HEALTH HAZARD ASSESSMENT	7
5. ENVIRONMENTAL HAZARD ASSESSMENT.....	7
6. CONCLUSIONS ON THE SVHC PROPERTIES.....	8
6.1 CMR assessment.....	8
6.2 PBT and vPvB assessment.....	8
6.3 Assessment under Article 57(f)	8
REFERENCES.....	9

TABLES

Table 1: Substance identity	5
Table 2: Constituents other than impurities/additives	6
Table 3: Classification and labelling in accordance with the CLP Regulation (Regulation (EC) 1272/2008) from the RAC opinion (RAC, 2021)	7

ABBREVIATIONS

ATP: Adaption to Technical Progress

CLP: Classification, labelling and packaging, Regulation (EC) No 1272/2008

RAC: Risk Assessment Committee

SVHC: Substance of very high concern

TBBPA: 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol

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

Substance name: 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol

EC number: 201-236-9

CAS number: 79-94-7

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

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

The Risk Assessment Committee (RAC) adopted its opinion on the proposal for harmonised classification and labelling (CLH) of 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol on 16 September 2021 and the substance is included in the draft 21st ATP to CLP. Once adopted, the resulting entry will be listed in Regulation (EC) No 1272/2008 in Annex VI, part 3, Table 4 (the list of harmonised classification and labelling of hazardous substances) and classified in the hazard class carcinogenicity category 1B (hazard statement H350: "May cause cancer").

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

- Carcinogenicity category 1B in accordance with Article 57 (a) of REACH.

Registration dossiers submitted for the substance: Yes

¹ Classification in accordance with section 3.6 of Annex I to Regulation (EC) No 1272/2008.

Justification

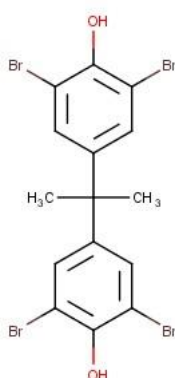
1. Identity of the substance and physical and chemical properties

1.1 Name and other identifiers of the substance

Table 1: Substance identity

EC number:	201-236-9
EC name:	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol
CAS number (in the EC inventory):	79-94-7
CAS number:	79-94-7
IUPAC name:	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol
Index number in Annex VI of the CLP Regulation	604-074-00-0
Molecular formula:	C ₁₅ H ₁₂ Br ₄ O ₂
Molecular weight range:	543.9 g/mol
Synonyms:	Tetrabromobisphenol A; 2,2-Bis(3,5-dibromo-4-hydroxyphenyl)propane; 2,2-bis(4-hydroxy-3,5-dibromophenyl)propane; 4,4'-isopropylidenebis(2,6-dibromophenol); 4,4'-(1-methylethylidene)bis(2,6-dibromophenol); 2,2',6,6'-tetrabromobisphenol A; 3,3',5,5'-tetrabromobisphenol A; 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol; Tetrabromodiphenylpropane; TBBPA; TBBP-A

Structural formula:



1.2 Composition of the substance

Name: 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol

Description: organic

Substance type: mono-constituent

Table 2: Constituents other than impurities/additives

Constituents	Typical concentration
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol; tetrabromobisphenol-A EC no: 201-236-9 CAS no: 79-94-7	≥80% w/w

1.3 Identity and composition of degradation products/metabolites relevant for the SVHC assessment

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

1.4 Identity and composition of structurally related substances (used in a grouping or read-across approach)

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

1.5 Physicochemical properties

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

2. Harmonised classification and labelling

The Risk Assessment Committee (RAC) adopted its opinion on the proposal for harmonised classification and labelling (CLH) of 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol on 16 September 2021 and the substance is included in the draft 21st ATP to CLP. Once adopted, the resulting entry will be listed in Regulation (EC) No 1272/2008 in Annex VI, part 3, Table 3.1 (the list of harmonised classification and labelling of hazardous substances) and classified in the hazard class carcinogenicity category 1B (hazard statement H350: "May cause cancer").

Table 3: Classification and labelling in accordance with the CLP Regulation (Regulation (EC) 1272/2008) from the RAC opinion (RAC, 2021)

Index No	Chemical name	EC No	CAS No	Classification		Labelling			Spec. Conc. Limits, M-factors and ATEs ²	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)		
604-074-00-0	2,2',6,6'-tetrabromo-4,4'-isopropylidene diphenol; tetrabromobisphenol-A	201-236-9	79-94-7	Carc. 1B Aquatic Acute 1 Aquatic Chronic 1	H350 H400 H410	GHS08 GHS09 Dgr	H350 H410			

3. Environmental fate properties

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

4. Human health hazard assessment

Please see section 2 (Harmonised classification and labelling).

5. Environmental hazard assessment

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

² Acute Toxicity Estimate

6. Conclusions on the SVHC Properties

6.1 CMR assessment

The Risk Assessment Committee (RAC) adopted its opinion on the proposal for harmonised classification and labelling (CLH) of 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol on 16 September 2021 and the substance is included in the draft 21st ATP to CLP. Once adopted, the resulting entry will be listed in Regulation (EC) No 1272/2008 in Annex VI, part 3, Table 3.1 (the list of harmonised classification and labelling of hazardous substances) and classified in the hazard class carcinogenicity category 1B (hazard statement H350: "May cause cancer").

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

- carcinogenicity category 1B in accordance with Article 57 (a) of REACH.

6.2 PBT and vPvB assessment

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

6.3 Assessment under Article 57(f)

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

References

Committee for Risk Assessment (RAC). Opinion proposing harmonised classification and labelling at EU level of 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol; tetrabromobisphenol-A. 16 September 2021. Available at <https://echa.europa.eu/documents/10162/ec6d02f7-6724-02c9-91e5-ea7beade2b31>