

**Substance Name: Dibutylbis(pentane-2,4-
dionato-O,O')tin**

EC Number: 245-152-0

CAS Number: 22673-19-4

**MEMBER STATE COMMITTEE SUPPORT DOCUMENT
FOR IDENTIFICATION OF**

DIBUTYLBIS(PENTANE-2,4-DIONATO-O,O')TIN

**AS A SUBSTANCE OF VERY HIGH CONCERN
BECAUSE OF ITS TOXIC FOR REPRODUCTION
(ARTICLE 57C) PROPERTIES**

Adopted on 28 May 2020

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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: Dibutylbis(pentane-2,4-dionato-O,O')tin

EC Number: 245-152-0

CAS Number: 22673-19-4

- 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

Dibutylbis(pentane-2,4-dionato-O,O')tin is covered by index number 650-056-00-0 of Regulation (EC) No 1272/2008² 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 (H360FD³).

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

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

Registration dossiers submitted for the substance: Yes

¹ Classification in accordance with section 3.7 of Annex I to Regulation (EC) No 1272/2008.

² As amended by COMMISSION DELEGATED REGULATION (EU) 2020/217 of 4 October 2019 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures and correcting that Regulation. <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32020R0217&from=EN>

³ H360FD: 'May damage fertility. May damage the unborn child'.

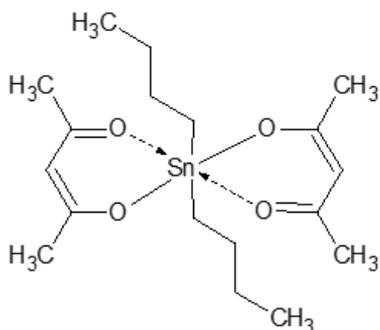
Justification

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:	245-152-0
EC name:	Dibutylbis(pentane-2,4-dionato-O,O')tin
CAS number (in the EC inventory):	22673-19-4
Other CAS number:	50701-16-1
CAS name:	Tin, dibutylbis(2,4-pentanedionato.kappa.O2, .kappa.O4)-, (OC-6-11)-
IUPAC name:	<ul style="list-style-type: none"> • (3Z,3'Z)-4,4'-[(Dibutylstannandiyl)bis(oxy)]bis(3-penten-2-on) • (Z)-4-oxopent-2-en-2-olate; pentane; tin(4 +) • 6,6-dibutyl-2,4,8,10-tetramethyl-1λ³,5,7λ³,11-tetraoxa-6-stannaspiro[5.5]undeca-1,3,7,9-tetraene • Tin, dibutylbis(2,4-pentanedionato-kO2,kO4)-,
Index number in Annex VI of the CLP Regulation	650-056-00-0
Molecular formula:	C ₁₈ H ₃₂ O ₄ Sn
Molecular weight range:	431.15
Synonyms:	<ul style="list-style-type: none"> • DBTP • Dibutyltin bis(2,4-pentanedionate) • Di-n-butylbis(2,4-pentanedionate)tin • Dibutyltin bis(acetylacetonate) • ZINC170157078 • 3-Penten-2-one, 4,4'-[(dibutylstannylene)bis(oxy)]bis-, (3Z,3'Z) • (Z)-4-[dibutyl-[(Z)-1-methyl-3-oxo-but-1-enoxy]stannyl]oxypent-3-en-2-one • Dibutyltin ketonate • Dibutyltin diketonate

Structural formula:**1.2 Composition of the substance**

Name: Dibutylbis(pentane-2,4-dionato-O,O')tin

Description: organotin compound

Substance type: Mono-constituent

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 (c) 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 (c) of the REACH Regulation.

1.5 Physicochemical properties

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

2. Harmonised classification and labelling

Dibutylbis(pentane-2,4-dionato-O,O')tin is covered by Index number 650-056-00-0 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 1272/2008⁴

Index No	Chemical name	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)		
650-056-00-0	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	Repr. 1B STOT RE 1	H360FD H372 (immune system)	GHS08 Dgr	H360FD H372 (immune system)	-	-	-

3. Environmental fate properties

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

4. Human health hazard assessment

Please see Chapter 2 (Harmonised classification and labelling).

5. Environmental hazard assessment

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

6. Conclusions on the SVHC Properties

6.1 CMR assessment

Dibutylbis(pentane-2,4-dionato-O,O')tin is covered by index number 650-056-00-0 of Regulation (EC) No 1272/2008⁵ in Annex VI, part 3, Table 3.1 (the list of harmonised

⁴ As amended by COMMISSION DELEGATED REGULATION (EU) 2020/217 of 4 October 2019 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures and correcting that Regulation. <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32020R0217&from=EN>

⁵ As amended by COMMISSION DELEGATED REGULATION (EU) 2020/217 of 4 October 2019 amending, for the

classification and labelling of hazardous substances) and it is classified in the hazard class toxic for reproduction category 1B (H360FD⁶).

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 the REACH Regulation.

6.2 PBT and vPvB assessment

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

purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures and correcting that Regulation. <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32020R0217&from=EN>

⁶ H360FD: 'May damage fertility. May damage the unborn child'.

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 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. Official Journal of the European Union, L396: 1-849 (as amended).
- EU (2008). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packing of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Official Journal of the European Union, L353: 1-1355 (as amended).