Substance Name: 1,3-propanesultone

EC Number: 214-317-9

CAS Number: 1120-71-4

SUPPORT DOCUMENT FOR IDENTIFICATION OF

1,3-PROPANESULTONE

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

Contents

TABLES

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

Substance Name(s): **1,3-propanesultone**

EC Number: **214-317-9**

CAS Number: **1120-71-4**

- 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

1,3-propanesultone is covered by index number 016-032-00-3 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 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 of Annex I to Regulation (EC) No 1272/2008.

Justification

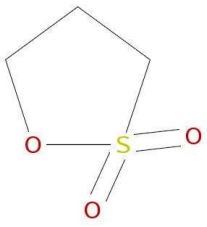
1. Identity of the substance and physical and chemical properties

1.1. Name and other identifiers of the substance

Table 1: Substance identity

EC number:	214-317-9
EC name:	1,3-propanesultone
CAS number (in the EC inventory):	1120-71-4
CAS name:	1,2-oxathiolane, 2,2-dioxide
IUPAC name:	1,2-oxathiolane 2,2-dioxide
Index number in Annex VI of the CLP Regulation	016-032-00-3
Molecular formula:	$C_3H_6O_3S$
Molecular weight range:	122.14
Synonyms:	1,2-oxathiolane-2,2-dioxide; 1,2-oxathiolane-2,2-dione

Structural formula:



1.2. Composition of the substance

Name: 1,3-propanesultone

Description: Solid

Substance type: mono-constituent

Table 2: Constituents

Constituents	Typical concentration	Concentration range	Remarks
1,3-propanesultone (EC No. 214-317-9)	≥ 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 REACH.

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 REACH.

1.5. Physicochemical properties

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

2. Harmonised classification and labelling

1,3-propanesultone is covered by Index number 016-032-00-3 in part 3 of Annex VI to the CLP Regulation as follows:

Table 3: Classification according to Annex VI, Table 3.1 (list of harmonised classification and labelling of hazardous substances) of Regulation (EC) No 1272/2008[2]

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)		
016-032-00-3	1,3-propanesultone; 1,2-oxathiolane 2,2-dioxide	214-317-9	1120-71-4	Carc. 1B Acute Tox. 4 * Acute Tox. 4 *	H350 H312 H302	GHS08 GHS07 Dgr	H350 H312 H302		Carc. 1B; H350: C ≥ 0,01 %	-

** For certain hazard classes, including acute toxicity and STOT repeated exposure, the classification according to the criteria in Directive 67/548/EEC does not correspond directly to the classification in a hazard class and category under Regulation (EC) No 1272/2008. In these cases, the classification shall be considered as a minimum classification. Please see Annex VI of Regulation (EC) No 1272/2008, Section 1.2.1 on minimum classification for further details.*

[2] 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.

3. Environmental fate properties

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

4. Human health hazard assessment

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

5. Environmental hazard assessment

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

6. Conclusions on the SVHC Properties

6.1. CMR assessment

1,3-propanesultone is covered by index number 016-032-00-3 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 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 REACH.

6.3. Equivalent level of concern assessment

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