



Substance Name:

1-bromopropane [n-propyl bromide]

EC Number: 203-445-0

CAS Number: 106-94-5

MEMBER STATE COMMITTEE

SUPPORT DOCUMENT FOR IDENTIFICATION OF

1-BROMOPROPANE [N-PROPYL BROMIDE]

**AS A SUBSTANCE OF VERY HIGH CONCERN BECAUSE OF ITS
CMR¹ PROPERTIES**

Adopted on 29 November 2012

¹ CMR means carcinogenic, mutagenic or toxic for reproduction

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Substance Name: 1-bromopropane [n-propyl bromide]

EC Number: 203-445-0

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1-bromopropane [n-propyl bromide] is identified as substance meeting the criteria of Article 57 (c) of Regulation (EC) 1907/2006 (REACH) owing to its classification as toxic for reproduction category 1B² which corresponds to classification as toxic for reproduction category 2³.

Summary of how the substance meets the criteria set out in Article 57 (c) of REACH (Repr. 1B).

1-bromopropane [n-propyl bromide] is covered by Index number 602-019-00-5 in Regulation (EC) No 1272/2008 and classified in Annex VI, part 3, Table 3.1 (list of harmonised classification and labelling of hazardous substances) as toxic for reproduction, Repr. 1B⁴ based on effects on fertility. The corresponding classification in Annex VI, part 3, Table 3.2 (the list of harmonised and classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC) of Regulation (EC) No 1272/2008 is toxic for reproduction, Repr. Cat. 2; R60 ("May impair fertility").

Therefore, this classification of 1-bromopropane [n-propyl bromide] in Regulation (EC) No 1272/2008 shows that it meets the criteria for classification as toxic for reproduction in accordance with Article 57 (c) of REACH.

Registration dossier(s) submitted for the substance: Yes

² Classification in accordance with Regulation (EC) No 1272/2008 Annex VI, part 3, Table 3.1 List of harmonised classification and labelling of hazardous substances, OJ L 353, p.1, 31.12.2008.

³ Classification in accordance with Regulation (EC) No 1272/2008, Annex VI, part 3, Table 3.2 List of harmonised classification and labelling of hazardous substances (from Annex I to Council Directive 67/548/EEC), OJ L 353, p.1, 31.12.2008.

⁴ There is a mistake in the entry for the substance in the CLP Regulation (EC) No 1272/2008, Annex VI, part 3, Table 3.1, indicating its classification as 'Repr. 1B, H360FD'. However, the correct hazard statement code is Repr. 1B, H360Fd. Classification with Repr. 1B, H360Fd (Table 3.1, Annex I, CLP) corresponds to classification with Repr. Cat. 2; R60 and Repr. Cat. 3; R63 in Annex VI, Table 3.2 (list of harmonized classification and labelling of hazardous substances from Annex I of Council Directive 67/548/EEC) of the CLP Regulation (EC) No 1272/2008.

JUSTIFICATION

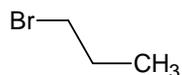
1 Identity of the substance and physical and chemical properties

1.1 Name and other identifiers of the substance

Table 1: Substance identity

EC number:	203-445-0
EC name:	1-bromopropane; n-propyl bromide
CAS number (in the EC inventory):	106-94-5
CAS number: Deleted CAS numbers:	106-94-5
CAS name:	Propane, 1-bromo-
IUPAC name:	1-bromopropane; n-propyl bromide
Index number in Annex VI of the CLP Regulation	602-019-00-5
Molecular formula:	C ₃ H ₇ Br
Molecular weight range:	123.0 g/mol
Synonyms:	1-Propyl bromide Propyl bromide n-Propyl bromide

Structural formula:



1.2 Composition of the substance

Name: 1-bromopropane; n-propyl bromide

Description: ---

Degree of purity: 98 – 100 %

Table 2: Constituents

Constituents	Typical concentration	Concentration range	Remarks
1-bromopropane 203-445-0		98 – 100 %	Information according to the available registration dossiers.

2 Harmonised classification and labelling

1-bromopropane [n-propyl bromide] is covered by Index number 602-019-00-5 in Annex VI, part 3 of Regulation (EC) No 1272/2008 as follows:

Table 3: Classification according to part 3 of 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)		
602-019-00-5	1-bromopropane; n-propyl bromide	203-445-0	106-94-5	Flam. Liq. 2 Repr. 1B STOT RE 2 * Eye Irrit. 2 STOT SE 3 Skin Irrit. 2 STOT SE 3	H225 H360-F d ⁵ H373 **	GHS02 GHS08 GHS07 Dgr	H225 H360Fd H373 ** H319 H335 H315 H336			

Table 4: Classification according to part 3 of Annex VI, Table 3.2 (list of harmonized classification and labelling of hazardous substances from Annex I of Council Directive 67/548/EEC) of Regulation (EC) No 1272/2008

Index No	International Chemical Identification	EC No	CAS No	Classification	Labelling	Concentration Limits	Notes
602-019-00-5	1-bromopropane; n-propyl bromide	203-445-0	106-94-5	F; R11 Repr. Cat. 2; R60 Repr. Cat. 3; R63 Xn; R48/20 Xi; R36/37/38 R67	F; T R: 60-11-36/37/38-48/20-63-67 S: 53-45		E

⁵ There is a mistake in the entry for the substance in CLP Regulation (EC) No 1272/2008, Annex VI, part 3, Table 3.1, indicating its classification as 'Repr. 1B, H360FD'. However, the correct hazard statement code is Repr. 1B, H360Fd. Classification with Repr. 1B, H360Fd (Table 3.1, Annex I, CLP) corresponds to classification with Repr. Cat. 2; R60 and Repr. Cat. 3; R63, as stated in Annex VI, Table 3.2 (list of harmonized classification and labelling of hazardous substances from Annex I of Council Directive 67/548/EEC) of CLP Regulation (EC) No 1272/2008.

3 Environmental fate properties

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

4 Human health hazard assessment

See section 2 on harmonised classification and labelling.

5 Environmental hazard assessment

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

6 Conclusions on the SVHC Properties

6.1 CMR assessment

1-bromopropane [n-propyl bromide] is covered by Index number 602-019-00-5 in Regulation (EC) No 1272/2008 and classified in Annex VI, part 3, Table 3.1 (list of harmonised classification and labelling of hazardous substances) as toxic for reproduction, Repr. 1B⁶ based on effects on fertility. The corresponding classification in Annex VI, part 3, Table 3.2 (the list of harmonised and classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC) of Regulation (EC) No 1272/2008 is toxic for reproduction, Repr. Cat. 2; R60 ("May impair fertility").

Therefore, the classification of 1-bromopropane [n-propyl bromide] in Regulation (EC) No 1272/2008 shows that it meets the criteria for classification as toxic for reproduction in accordance with Article 57 (c) of REACH.

⁶ There is a mistake in the entry for the substance in Regulation (EC) No 1272/2008, Annex VI, part 3, Table 3.1, indicating its classification as 'Repr. 1B, H360FD'. However, the correct hazard statement codes are Repr. 1B, H360F~~d~~, which corresponds to Repr. Cat. 2; R60 and Repr. Cat. 3; R63, that are correctly stated in Annex VI, Table 3.2 (list of harmonized classification and labelling of hazardous substances from Annex I of Council Directive 67/548/EEC) of Regulation (EC) No 1272/2008.