

**Substance Name: Lead bis(tetrafluoroborate)** 

EC Number: 237-486-0

CAS Number: 13814-96-5

#### **MEMBER STATE COMMITTEE**

#### SUPPORT DOCUMENT FOR IDENTIFICATION OF

**LEAD BIS(TETRAFLUOROBORATE)** 

# AS A SUBSTANCE OF VERY HIGH CONCERN BECAUSE OF ITS CMR<sup>1</sup> PROPERTIES

Adopted on 29 November 2012

<sup>&</sup>lt;sup>1</sup> CMR means carcinogenic, mutagenic or toxic for reproduction

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Lead bis(tetrafluoroborate) 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  $1A^2$  which corresponds to classification as toxic for reproduction category  $1^3$ .

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

Lead bis(tetrafluoroborate) is covered by Index number 082-001-00-6 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. 1A (H360D: "May damage the unborn child"). The corresponding classification in Annex VI, part 3, Table 3.2 (the list of harmonised 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. 1, R61 ("May cause harm to the unborn child.").

Therefore, this classification of lead bis(tetrafluoroborate) in Regulation (EC) No 1272/2008 shows that the substance meets the criteria for classification as toxic for reproduction in accordance with Article 57 (c) of REACH.

#### Registration dossiers submitted for the substance? Yes

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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.

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.

# **JUSTIFICATION**

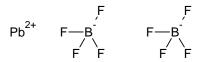
# 1 Identity of the substance and physical and chemical properties

#### 1.1 Name and other identifiers of the substance

**Table 1: Substance identity** 

EC number:	237-486-0
EC name:	lead bis(tetrafluoroborate)
CAS number (in the EC inventory):	13814-96-5
CAS number:	13814-96-5
Deleted CAS numbers:	35254-34-3
CAS name:	Borate(1-), tetrafluoro-, lead(2+) (2:1)
IUPAC name:	Lead(2+) ditetrafluoroborate
Index number in Annex VI of the CLP Regulation	082-001-00-6
Molecular formula:	B <sub>2</sub> F <sub>8</sub> Pb
Molecular weight range:	380.8 g/mol
Synonyms:	Borate(1-), tetrafluoro-, lead(2+); Lead fluoborate (Pb(BF4)2); Lead tetrafluoroborate (Pb(BF4)2); Lead boron fluoride; Lead fluoroborate; Lead fluoroborate (Pb(BF4)2); Lead(II) tetrafluoroborate

#### Structural formula:



# 1.2 Composition of the substance

Name: Lead bis(tetrafluoroborate)

**Description: ---**

Degree of purity: 65 - 68 %

**Table 2: Constituents** 

Constituents	Typical concentration	Concentration range	Remarks
Lead bis(tetrafluoroborate) 237-486-0		65 – 68 %	Information according to the available registration dossiers.
Water 231-791-2		29.6 - 32 %	Information according to the available registration dossiers.

ECHA is not in the position to assess if the water is present as hydrate, stabiliser or simply a solvent which cannot be removed from the substance without decomposing it. Therefore water is considered in the composition as indicated in the registration dossiers.

# 2 Harmonised classification and labelling

Lead bis(tetrafluoroborate) is covered by Index number 082-001-00-6 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.	Notes
				Hazard Class and Category Code(s)	Hazard statem ent code(s)	Pictogra m, Signal Word Code(s)	Hazard stateme nt code(s)	Suppl. Hazard stateme nt code(s)	Limits, M- factors	
082-001-00-6	lead compounds	-	-	Repr. 1A	H360-Df	GHS08	H360Df		STOT RE 2;	A1
	with the exception of those specified			Acute Tox. 4 *	H332	GHS07	H332		H373: C ≥ 0,5 %	
	elsewhere in this			Acute Tox. 4 *	H302	GHS09	H302			
	Annex			STOT RE 2 *	H373**	Dgr	H373 **			
				Aquatic Acute 1	H400		H410			
				Aquatic Chronic 1	H410					

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
082-001-00-6	lead compounds with the exception of those specified elsewhere in this Annex		-	Repr. Cat. 1; R61 Repr. Cat. 3; R62 Xn; R20/22 R33 N; R50-53	T; N R: 61- 20/22-33- 62- 50/53 S: 53-45- 60-61	Xn; R20/22: C ≥ 1 % R33: C ≥ 0,5 %	AE1

### 3 Environmental fate properties

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

#### 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 57(c).

### **6** Conclusions on the SVHC Properties

#### 6.1 CMR assessment

Lead bis(tetrafluoroborate) is covered by Index number 082-001-00-6 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. 1A (H360D: "May damage the unborn child"). The corresponding classification in Annex VI, part 3, Table 3.2 (the list of harmonised 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. 1, R61 ("May cause harm to the unborn child.").

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