



9 December 2011

Substance name: Lead diazide
EC number: 236-542-1
CAS number: 13424-46-9

**SUPPORT DOCUMENT FOR IDENTIFICATION OF
LEAD DIAZIDE
AS A SUBSTANCE OF VERY HIGH CONCERN BECAUSE OF ITS
CMR PROPERTIES**

NOTE

During the public consultation, in accordance with Article 59 (4) of the REACH Regulation, on the proposed identification of lead diazide as a Substance of Very High Concern (SVHC) on the basis of its classification as toxic to reproduction category 1A no comments were received objecting the conclusion that the substance meets criteria set out in Article 57(c). Therefore, in accordance with Article 59 (6), lead diazide has been included in the Candidate List by ECHA.

The present support document comprises Part I (Justification) of the Annex XV dossier for identification of lead diazide as SVHC on the basis of Article 57(c) of REACH.

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Substance Name: Lead diazide

EC Number: 236-542-1

CAS number: 13424-46-9

- The substance is identified as substance meeting the criteria of Article 57 (c) of Regulation (EC) 1907/2006 (REACH) owing to its classification as toxic to reproduction category 1A¹ which corresponds to classification as toxic to reproduction category 1².

Summary of how the substance(s) meet(s) the CMR (1A or 1B) criteria

Lead diazide is covered by index numbers 082-003-00-7 and 082-003-01-4 of 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 to reproduction, Repro. 1A ((H360-Df: ‘May damage the unborn child. Suspected of damaging fertility’). 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 to reproduction category 1 (R61: ‘May damage the unborn child. Suspected of damaging fertility’).

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

Registration dossiers submitted for the substance? Yes

¹ 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.

² 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).

JUSTIFICATION

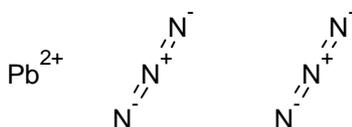
1 IDENTITY OF THE SUBSTANCE AND PHYSICAL AND CHEMICAL PROPERTIES

1.1 Name and other identifiers of the substance

Table 1.1: Substance identity

EC number:	236-542-1
EC name:	lead diazide
CAS number (in the EC inventory):	13424-46-9
CAS number:	13424-46-9 69985-35-9 Lead azide (Pb(N ₃)) 73513-16-3 Plumbane, tetrazido-
Deleted CAS number:	85941-57-7
CAS name:	Lead azide (Pb(N ₃) ₂)
IUPAC name:	Lead(2+) diazide
Index number in Annex VI of the CLP Regulation	082-003-00-7
Molecular formula:	N ₆ Pb
Molecular weight:	291.2 g/mol
Synonyms:	---

Structural formula:



1.2 Composition of the substance

Name: lead diazide

Description: not relevant

Degree of purity: 88 – 98 %

Table 1.2: Constituents

Constituents	Typical concentration	Concentration range	Remarks
Lead diazide EC number: 236-542-1		88 – 98 %	Based on the registration dossiers received

Table 1.3: Impurities

Impurities	Typical concentration	Concentration range	Remarks
See confidential Annex 2			

Table 1.4: Additives

Additives	Typical concentration	Concentration range	Remarks
See confidential Annex 2			

1.3 Physico-chemical properties

Table 1.5: Overview of physicochemical properties³

Property	Value	Remarks	
Physical state at 20°C and 101.3 kPa	Solid Colourless, spicular crystals	<i>Discussion and the value used for Chemical Safety Assessment (CSA) reported in the endpoint summary</i>	Bornscheuer, U.; Roempp; Georg Thieme Verlag KG, 2008
Water solubility	0.023 g /100 g at 18 °C	<i>idem</i>	O'Neil, Maryadele J.; The Merck Index; Merck & Co Inc.; Whitehouse Station, NJ, USA; 14th Edition; 2006

³ The references of the values reported in Table 5 will be available in the technical dossier. In case references need to be included an additional column could be added manually to Table 5.

2 HARMONISED CLASSIFICATION AND LABELLING

Lead diazide is covered by Index number numbers 082-003-00-7 and 082-003-01-4 in Annex VI, part 3 of Regulation (EC) No 1272/2008 as follows:

Table 2.1: 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)		
082-003-00-7	Lead diazide; lead azide	236-542-1	13424-46-9	Unst. Expl. Repr. 1A Acute Tox. 4* Acute Tox. 4* STOT RE 2* Aquatic Acute 1 Aquatic Chronic 1	H200 H360-Df H332 H302 H373** H400 H410	GHS01 GHS08 GHS07 GHS09 Dgr	H200 H360Df H332 H302 H373** H410		1	
082-003-01-4	Lead diazide; lead azide (≥ 20% phlegmatiser)	236-542-1	13424-46-9	Expl. 1.1 Repr. 1A Acute Tox. 4* Acute Tox. 4* STOT RE 2* Aquatic Acute 1 Aquatic Chronic 1	H201 H360-Df H332 H302 H373** H400 H410	GHS01 GHS08 GHS07 GHS09 Dgr	H200 H360Df H332 H302 H373** H410		1	

Note 1:

The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture.

Table 2.2: 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
082-003-00-7	Lead diazide; lead azide	236-542-1	13424-46-9	E; R3 Repr. Cat. 1; R61 Repr. Cat.3; R62 Xn; R20/22 R33 N; R50-53	E; T; N R: 61-3-20/22-33-50/53-62 S: 53-45-60-61		E 1

Note E (Table 3.2) :

Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk

phrases shall be preceded by the word 'Also'.

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

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

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 PBT, vPvB assessment

Not relevant.

6.2 CMR assessment

Lead diazide is covered by index numbers 082-003-00-7 and 082-003-01-4 of 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 to reproduction, Repro. 1A ((H360-Df: 'May damage the unborn child. Suspected of damaging fertility'). 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 to reproduction category 1 (R61: "May damage the unborn child. Suspected of damaging fertility").

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

6.3 Substances of equivalent level of concern assessment.

Not relevant.