



9 December 2011

**Substance name: Lead dipicrate**  
**EC number: 229-335-2**  
**CAS number: 6477-64-1**

**SUPPORT DOCUMENT FOR IDENTIFICATION OF  
LEAD DIPICRATE  
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 dipicrate 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 dipicrate 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 dipicrate as SVHC on the basis of Article 57(c) of REACH. Section 2 of the report has been slightly amended to correct a known mistake coming from the Annex VI of the CLP regulation and referring to wrong concentration limits associated to the classification as toxic to reproduction 1A. No concentration limit is associated to this classification as updated in tables 5 and 6 of Section 2 of this document.

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**Substance Name:**            **Lead dipicrate**  
**EC Number:**                **229-335-2**  
**CAS Number:**              **6477-64-1**

- The substance is proposed to be 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 1A<sup>1</sup> which corresponds to classification as toxic to reproduction category 1<sup>2</sup>.

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

Lead dipicrate is covered by index numbers 082-001-00-6 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 dipicrate 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? No**

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<sup>1</sup> 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.

<sup>2</sup> 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

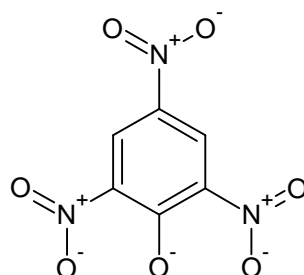
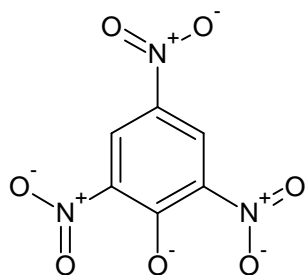
### 1 IDENTITY OF THE SUBSTANCE AND PHYSICAL AND CHEMICAL PROPERTIES

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

**Table 1: Substance identity**

<b>EC number:</b>	229-335-2
<b>EC name:</b>	lead dipicrate
<b>CAS number (in the EC inventory):</b>	6477-64-1
<b>CAS number:</b>	6477-64-1
<b>Deleted CAS numbers:</b>	65308-86-3; 34352-43-7
<b>CAS name:</b>	Phenol, 2,4,6-trinitro-, lead(2+) salt (2:1)
<b>IUPAC name:</b>	Lead(2+) bis(2,4,6-trinitrophenolate)
<b>Index number in Annex VI of the CLP Regulation</b>	082-001-00-6
<b>Molecular formula:</b>	C <sub>12</sub> H <sub>4</sub> N <sub>6</sub> O <sub>14</sub> Pb
<b>Molecular weight:</b>	663.4 g/mol
<b>Synonyms:</b>	Lead, bis(picryloxy)-; Phenol, 2,4,6-trinitro-, lead(2+) salt; Picric acid, lead(2+) salt; Lead(II) picrate

**Structural formula:**



## 1.2 Composition of the substance

**Name:** Lead dipicrate

**Description:** not relevant

**Degree of purity:** no information available

**Table 2: Constituents**

Constituents	Typical concentration	Concentration range	Remarks
Lead dipicrate EC number: 229-335-2	100 %		No information available therefore the typical concentration is set to 100 %

**Table 3: Impurities**

Impurities	Typical concentration	Concentration range	Remarks
			No information available

**Table 4: Additives**

Additives	Typical concentration	Concentration range	Remarks
			No information available

## 1.3 Physico-chemical properties

There is no information on the physico-chemical properties available

## 2 HARMONISED CLASSIFICATION AND LABELLING

Lead dipicrate is covered by Index number numbers 082-001-00-6 in Annex VI, part 3 of Regulation (EC) No 1272/2008 as follows:

**Table 5: 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)		
082-001-00-6	lead compounds with the exception of those specified elsewhere in this Annex	-	-	Repr. 1A Acute Tox. 4* Acute Tox. 4* STOT RE 2* Aquatic Acute 1 Aquatic Chronic 1	H360-Df H332 H302 H373** H400 H410	GHS08 GHS07 GHS09 Dgr	H360Df H332 H302 H373** H410		STOT RE 2; H373: C≥0,5%	A 1

**Notes:**

**A-** Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3.

In Part 3, use is sometimes made of a general description such as ‘... compounds’ or ‘... salts’. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4.

**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 6: 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: 61-3-20/22-33-50/53-62 S: 53-45-60-61	Xn; R20/22: C ≥ 1 % R33: C ≥ 0,5 %	AE 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 dipicrate is covered by index numbers 082-001-00-6 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 dipicrate 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.