

# S a f e t y   D a t a   S h e e t

## According to Regulation (EC) 1907/2006



### 1475 Lead(II) Oxide

#### **1. Identification of the substance/mixture and of the company/undertaking**

##### **1.1 Product identifier**

Name:

Lead(II) Oxide

##### **Synonym:**

Lead Monoxide, Lead Protoxide, Litharge

**REACH Registration Number:** 01-2119517589-27-XXXX

##### **1.2 Relevant identified uses of the substance or mixture:**

For laboratory utilisation, analysis, research and fine chemistry.

##### **1.3 Identification of the company or firm:**

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: [product.safety@panreac.com](mailto:product.safety@panreac.com)

##### **1.4 Emergency telephone:**

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

#### **2. Identification of dangers**

Classification of the substance or the mixture.

**Classification Regulation (CE) nº 1272/2008.**

Repr. 1A

Acute Toxicity Inhalation cat. 4

Acute Toxicity Oral cat. 4

Aquatic Acute 1

Aquatic Chronic 1

## Hazard Pictograms



## Signal word

Danger

## Hazard statements

H360Df May damage the unborn child. Suspected of damaging fertility.

H332 Harmful if inhaled.

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

## Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust, fume, gas, mist, vapours or spray.

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

## Classification (67/548/CEE or 1999/45/CE).

**T** Toxic

**N** Dangerous for the environment

R61

R20/22

R33

R62

R50/53

For the full text of the R-phrases mentioned in this section, see section 16.

## 3. Composition/information on ingredients

Name: Lead(II) Oxide

Formula: PbO M.= 223,20 CAS [1317-36-8]

EC number (EINECS): 215-267-0

EC index number: 082-001-00-6

REACH Registration Number: 01-2119517589-27-XXXX

## 4. First aid measures

### 4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

### 4.2 Inhaling:

Take the person out into the fresh air. In the event of suffocation, proceed to provide artificial respiration.

#### **4.3 Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing.

#### **4.4 Eyes:**

Wash with plenty of water, keeping eyelids open.

#### **4.5 Swallowing:**

Drink large amounts of water. Induce vomiting. Seek immediate medical assistance. Laxatives: sodium sulphate (1 soup-spoonful in 250 ml of water). Stomach lavage.

### **5. Firefighting measures**

#### **5.1 Suitable extinguishing media:**

As appropriate to the environment.

#### **5.2 Unsuitable extinguishing media:**

No specific data.

#### **5.3 Special hazards arising from the substance or mixture:**

Incombustible.

#### **5.4 Advice for firefighters:**

Suitable clothing and footwear.

### **6. Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures:**

Do not inhale the dust.

#### **6.2 Environmental precautions:**

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

#### **6.3 Methods and material for containment and cleaning up:**

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

### **7. Handling and storage**

#### **7.1 Precautions for safe handling:**

Ensure good ventilation and renewal of the air in the premises. Handle with caution.

#### **7.2 Conditions for safe storage, including any incompatibilities:**

Well sealed containers. Keep away from flammable substances, sources of ignition and heat. Room temperature.

### **8. Exposure controls/personal protection**

#### **8.1 Exposure controls:**

Avoid exposure during handling and transfer.

**8.2 Control parameters:**

VLA-ED(Pb): 0,1 mg/m<sup>3</sup> ,

**8.3 Respiratory protection:**

If dust forms, use suitable respiratory protection.

**8.4 Hand protection:**

Use suitable gloves

**8.5 Eye/face protection:**

Use suitable goggles.

**8.6 Individual hygiene measures:**

Remove contaminated clothing. Wash hands before breaks and when the job is done. Use complete protective equipment.

**8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

**9. Physical and chemical properties**

Appearance: solid

Colour: Yellow

Granulometry: N/A

Odour: Odourless.

pH: 5 - 6 ((50 g/l))

Melting point/freezing point: 890 °C

Initial boiling point and boiling range: 1.470 °C

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density:

N/A

Solubility: in ( ) Insoluble in water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

**10. Stability and reactivity****10.1 Conditions to avoid:**

The product is chemically stable under standar ambient conditions (room temperature).

## **10.2 Incompatible materials:**

Aluminium. Alkaline metals. Carbides. Metals (powder). Boron. Performic acid. Hydrides. Halogens. Unsaturated hydrocarbons. Sulphoxides. Hydrogen peroxide. Nitrogen organic compounds.

## **10.3 Hazardous decomposition products:**

No specific data.

## **10.4 Chemical stability:**

Vigorous oxidizing agent.

# **11. Toxicological information**

## **11.1 Acute toxicity:**

LD L0 ipr rat : 430 mg/kg

LD50 ipr mus : 17.700 mg/kg

## **11.2 Dangerous effects for health:**

For lead compounds in general : In high concentrations: The product is absorbed with difficulty in the gastro-intestinal tract, which can cause acute toxicity. After a period of latency: Metallic taste nausea vomiting intestinal disorders shock  
Chronic effects muscular disorders blood alterations effects on the central nervous system Pregnant women must not be allowed to come into contact with the product. Possible risk of adverse effects to the foetus during pregnancy. Possible risk of impaired fertility. If swallowed in large quantities: nausea vomiting Other dangerous characteristics are not discarded.

# **12. Environmental information**

## **12.1 Toxicity:**

### **- EC50 test (mg/l):**

Bacteria (Ps. putida) (Pb) 1,4 mg/l

Classification: Extr. toxic

Algae (Sc. quadricauda) (Pb) 3,7 mg/l

Classification: Extr. toxic

Algae (M. aeruginosa) (Pb) 0,45 mg/l

Classification: Extr. toxic

Protozoa (E. sulcatum) (Pb) 0,02 mg/l

Classification: Extr. toxic

Protozoa (U. parduczi). (Pb) 0,07 mg/l

Classification: Extr. toxic

Crustaceans (Daphnia magna) (Pb) 2,5 mg/l

Classification: Extr. toxic

Fish (Salmo gairdneri) (Pb) 0,14 mg/l

Classification: Extr. toxic

Fish (Leuciscus Idus) (Pb) 546 mg/l

Classification: Highly toxic

### **- Receptor medium:**

Risk for the water environment High

Risk for the land environment Medium

## **12.2 Persistence and Degradability :**

Data not available.

## **12.3 Bioaccumulative potential:**

Bioaccumulable product.

#### **12.4 Mobility in soil :**

Data not available.

#### **12.5 Assessment PBT and MPMB :**

Data not available.

#### **12.6 Other adverse effects:**

Do not allow it to enter soils or water channels.

Water-pollutant product.

### **13. Disposal considerations**

#### **13.1 Waste treatment methods:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

.

#### **13.2 Contaminated containers:**

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

.

### **14. Transport information**

Overland (ADR):

Technical name: LEAD COMPOUND, SOLUBLE, N.O.S.

UN 2291 Class: 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: III (E)

By sea (IMDG):

Technical name: LEAD COMPOUND, SOLUBLE, N.O.S.

UN 2291 Class: 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: III

By air (ICAI-IATA):

Technical name: Lead compound, soluble, n.o.s.

UN 2291 Class: 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: III

Packaging instructions: CAO 677 PAX 670

### **15. Regulatory information**

The substance is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

### **16. Other information**

### **Other precautionary statements**

P273 Avoid release to the environment.  
P281 Use personal protective equipment as required.  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P314 Get medical advice/attention if you feel unwell.  
P330 Rinse mouth.  
P391 Collect spillage.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

### **Labelling (65/548/CEE or 1999/45/CE)**

R-phrases(s):	<b>R61</b> May cause harm to the unborn child. <b>R20/22</b> Harmful by inhalation and if swallowed. <b>R33</b> Danger of cumulative effects. <b>R62</b> Possible risk of impaired fertility. <b>R50/53</b> Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s):	<b>S53</b> Avoid exposure - obtain special instructions before use. <b>S45</b> In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). <b>S60</b> This material and its container must be disposed of as hazardous waste. <b>S61</b> Avoid release to the environment. Refer to special instructions/safety data sheets.

Version and revision date : 5 14.1.2013

Replaced: 15.09.2011

In respect of the previous review, changes have been made to the following sections: 2, 15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.