



## Safety Data Sheet

Date of Issue: 20.07.2021

Date of Expiry: 20.07.2026

### 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Company Name** : ECP Limited  
**Address** : PO Box 34125, Birkenhead, Auckland 0746  
**Telephone** : +64 9 480 4386  
**Facsimile** : +64 9 480 4385  
**Emergency phone number** : 0800 243 622 (24 hours)

<b>Product Name</b>	<b>Lead Oxide Pb3O4 (red lead)</b>
<b>Product Code</b>	<b>29638</b>
<b>CAS No.</b>	<b>1314-41-6</b>

**Recommended use** : Laboratory Investigations

### 2: Hazard's identification

#### 2.1 GHS Classification

Oxidizing liquids or solids (Category B), H272  
Acute toxicity, Oral (Category D), H302  
Acute toxicity, Inhalation (Category D), H332  
Toxic to Reproduction (Category A), H360  
Aquatic toxicity (Acute or Chronic) (Category A), H400

#### 2.2 GHS Label elements, including precautionary statements

##### Pictogram



**Signal word** : **Danger**

##### Hazard statement(s)

H272 May intensify fire; oxidizer.  
H302 Harmful if swallowed.  
H332 Harmful if inhaled.  
H360 May damage fertility or the unborn child.  
H400 Very toxic to aquatic life.

##### Precautionary statement(s)

##### Prevention

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat.  
P220 Keep/Store away from clothing/ combustible materials.  
P221 Take any precaution to avoid mixing with combustibles.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### **Response**

P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor 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.

P330 Rinse mouth.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P391 Collect spillage.

### **Storage**

P405 Store locked up.

### **Disposal**

P501 Dispose of contents/ container to an approved waste disposal plant.  
Restricted to professional users.

## **2.3 Other hazards - none**

## **3: Composition/information on ingredients**

### **3.1 Substances**

Synonyms : Lead oxide, red  
Lead(II,IV) oxide  
Minium

Molecular weight : 685.60 g/mol

CAS-No. : 1314-41-6

EC-No. : 215-235-6

Index-No. : 082-001-00-6

## **4: First aid measures**

### **4.1. Description of first aid measures**

First-aid measures after inhalation :

Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact :

Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact :

Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion :

Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

### **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms/injuries :

May damage the unborn child. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated exposure.

Symptoms/injuries after inhalation :

Harmful if inhaled.

Symptoms/injuries after ingestion :  
Harmful if swallowed.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

### **5: Firefighting measures**

#### **5.1. Extinguishing media**

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

dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).

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

Do not use a heavy water stream.

#### **5.2. Special hazards arising from the substance or mixture**

Explosion hazard :

Heating may cause a fire or explosion.

#### **5.3. Advice for firefighters**

Protection during firefighting :

Do not attempt to take action without suitable protective equipment.

### **6: Accidental release measures**

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### **6.3 Methods and materials for containment and cleaning up**

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

#### **6.4 Reference to other sections**

For disposal see section 13.

### **7: Handling and storage**

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

##### **Advice on safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Advice on safe Handling.

Avoid exposure - obtain special instructions before use.

##### **Advice on protection against fire and explosion**

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition.

##### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits Table

Component	CAS No.	Value	Control parameters	Basis
Mennige	1314-41-6	WES-TWA	0.05 mg/m <sup>3</sup>	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

**Remarks :** Carcinogen - suspected human carcinogen, Exposure can also be estimated by biological monitoring.

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

##### Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

##### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid  
Colour : Orange red.  
Odour : Odourless.

Odour threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	5000 °C
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C :		No data available
Relative density	:	No data available
Density	:	9.1 g/cm <sup>3</sup>
Solubility	:	Water: Insoluble in water
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	The substance or mixture is classified as oxidizing with the subcategory 2.
Explosive limits	:	No data available

## 9.2. Other information

No additional information available

## 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong reducing agents

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

## 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral	:	Harmful if swallowed. Inhalation: Harmful if inhaled.
Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation:		Not classified
Respiratory or skin sensitisation :		Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified

Reproductive toxicity	:	May damage the unborn child. Suspected of damaging fertility.
Specific target organ toxicity (Single exposure)	:	Not classified
Specific target organ toxicity (Repeated exposure)	:	May cause damage to organs through prolonged or repeated exposure.
Additional information	:	There are potential chronic health effects to consider
Aspiration hazard	:	Not classified

Potential adverse human health effects and symptoms :  
Harmful if swallowed.

## 12: Ecological information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

## 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

## 14: Transport Information Table

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
14.1	UN Number	1479	1479	1479
14.2	UN Proper Shipping name	OXIDIZING SOLID, N.O.S. (mennige)	OXIDIZING SOLID, N.O.S. (mennige)	Oxidizing solid, n.o.s. (mennige)

14.3	Transport Hazard Class	II	II	II
14.4	Packaging group	5.1	5.1	5.1
14.5	Environmental Hazards	Yes	Yes	No
14.6	Special precautions for user	None		
14.7	Incompatible materials	Strong reducing agents		
14.8	Hazchem Code	1Y		

#### 15: Regulatory information

##### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

###### National regulatory information

HSNO Approval Code: HSR005163

HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006

Tracking Required: not required

Approved Handler Cert.: not required

#### 16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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