

**MATERIAL SAFETY DATA SHEET****Product Name:** Lead oxide (Red lead)**CAS No.:** 1314-41-6**Version:** 0**1. Identification**

**Product Code** : 90441  
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**2. Hazards Identification****Hazard classification**

Acute toxicity, Oral : Category 4  
Acute toxicity, Inhalation : Category 4  
Carcinogenicity, Oral : Category 2  
Reproductive toxicity : Category 1A  
Specific target organ toxicity - repeated exposure, Oral : Category 1  
Specific target organ toxicity - repeated exposure, Inhalation : Category 1  
Acute aquatic toxicity : Category 1  
Chronic aquatic toxicity : Category 1

**Label elements****Hazard symbol**

**Signal word** : Danger  
**Hazard statement** : Harmful if swallowed or if inhaled  
Suspected of causing cancer if swallowed.  
May damage the unborn child. Suspected of damaging fertility.  
May cause harm to breast-fed children.  
Causes damage to organs (Central nervous system, Kidney, Blood) through prolonged or repeated exposure if swallowed.  
Causes damage to organs (Central nervous system, Kidney, Blood) through prolonged or repeated exposure if inhaled.  
Very toxic to aquatic life with long lasting effects.

**Precautionary statement** : Obtain special instructions before use.  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

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Avoid contact during pregnancy/ while nursing.  
Wear protective gloves/ protective clothing/ eye protection/  
face protection.  
IF SWALLOWED: Call a POISON CENTER or doctor/  
physician if you feel unwell. Rinse mouth.  
IF exposed or concerned: Get medical advice/ attention.

**Other hazards which do not result in GHS classification** : None

**3. Composition/information on ingredients**

<b>Ingredient</b>	<b>CAS No</b>	<b>Percent</b>
Lead oxide (Red lead)	1314-41-6	NLT- 95.0%

**4. First Aid Measures****Description of first aid measures**

- General advice** : Consult a physician. Show this safety data sheet to the doctor in attendance.
- Inhalation** : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin contact** : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
- Eye contact** : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Swallowed** : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- Most important symptoms and effects, both acute and delayed** : The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
- Indication of any immediate medical attention and special treatment needed Treatment** : No data available

**5. Fire fighting measures****Extinguishing media**

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Special hazards arising from the** : Lead oxides

**MATERIAL SAFETY DATA SHEET****Product Name:** Lead oxide (Red lead)**CAS No.:** 1314-41-6**Version:** 0**substance or mixture****Advice for firefighters** : Wear self contained breathing apparatus for fire fighting if necessary**Further information** : Use water spray to cool unopened containers.**6. Accidental Release Measures****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.**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.**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. Keep in suitable, closed containers for disposal.**Reference to other sections** : For disposal see section 13.**7. Handling and Storage****Precautions for safe handling** : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.

Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

**Specific end use(s)** : No data available**8. Exposure Controls Personal Protection****Control parameters****Components with workplace control parameters****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 such as

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- Skin Protection Hand protection** : NIOSH (US) or EN 166(EU).  
: 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** : Respiratory protection is required.

**9. Physical and Chemical Properties**

- Appearance** : Heavy orange red powder.  
**Odor** : No data available  
**pH** : 9.9 at 100 g/l at 20 °C  
**Melting point/freezing point** : 886 °C  
**Initial boiling point and boiling range** : No data available  
**Flash Point** : No data available  
**Vapor pressure** : No data available  
**Vapor density** : No data available  
**Relative density** : 9.530 g/cm<sup>3</sup>  
**Solubility in water** : 0.0702 g/l at 20  
**Solubility (other)** : No data available  
**Formula** : OPb  
**Molecular Weight** : 223.2 g/mol

**10. Stability and Reactivity**

- Reactivity** : No data available  
**Chemical stability** : Stable under recommended storage conditions.  
**Possibility of hazardous reactions** : No data available  
**Conditions to avoid** : No data available  
**Incompatible materials** : Hydrogen peroxide, Strong oxidizing agents, acids  
**Hazardous decomposition products** : No data available

**11. Toxicological Information****Information on toxicological effects**

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<b>Acute toxicity</b>	:	No data available
<b>Skin corrosion/irritation</b>	:	No skin irritation
<b>Serious eye damage/eye irritation</b>	:	No eye irritation
<b>Respiratory or skin sensitization</b>	:	Did not cause sensitisation on laboratory animals.
<b>Germ cell mutagenicity</b>	:	May alter genetic material.
<b>Carcinogenicity</b>	:	IARC: 2A - Group 2A: Probably carcinogenic to humans (Lead monoxide)
<b>Reproductive toxicity</b>	:	No data available
<b>Specific target organ toxicity - single exposure</b>	:	No data available
<b>Specific target organ toxicity - repeated exposure</b>	:	Ingestion - Causes damage to organs through prolonged or repeated exposure. - Central nervous system, Kidney, Blood
<b>Aspiration hazard</b>	:	No data available
<b>Potential health effects</b>	:	
<b>Inhalation</b>	:	No data available
<b>Ingestion</b>	:	No data available
<b>Skin</b>	:	No data available
<b>Eyes</b>	:	No data available
<b>Signs and Symptoms of Exposure</b>	:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**12. Ecological Information**

<b>Toxicity</b>	:	No data available
<b>Persistence and degradability</b>	:	No data available
<b>Bioaccumulative potential</b>	:	No data available
<b>Mobility in soil</b>	:	No data available
<b>Other adverse effects</b>	:	Very toxic to aquatic life with long lasting effects.

**13. Disposal consideration**

<b>Disposal instructions</b>	:	Discharge, treatment, or disposal may be subject to national, state, or local laws.
<b>Contaminated packaging</b>	:	Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

**14. Transport Information**

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	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>	2291	Lead monoxide	6.1	III	Yes
<b>IMDG</b>	2291	Lead monoxide	6.1	III	Yes
<b>IATA</b>	2291	Lead monoxide	6.1	III	Yes

**15. Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

**16. Other Information****Issue Date :01/08/2014****Version : 0**

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