Material Safety Data Sheet

Lead Oxide PbO (RXSOL-19-1945-025)

1. Product and Company Identifaction

Product Name	Lead Oxide (PbO)
Part Number	RXSOL-19-1945-025

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point - Mumbai, Gandhidham, Chennai, Visakhapatnam, Kolkata, Barka, Fujairah

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Email	123@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

Component	CAS-No	Weight %
Lead Oxide	1317-36-8	98-100 %

3. Hazards Identification

Signal Word	:	Harmful if swallowed
Hazard Statements	:	Very hazardous in case of ingestion. Hazardous in case of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).
Label Elements	:	Harmful if swallowed.Harmful if inhaled .May cause cancer May damage the unborn child. Suspected of damaging fertility Causes damage to organs through prolonged or repeated exposure.Obtain special instructions before use Do not handle until all safety precautions have been read and understood .Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling .Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray.CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to the nervous system. Repeated or prolonged exposure to the substance can produce target organs damage.
Environmental hazards	:	Very toxic to aquatic life with long lasting effects.

4. First Aid Measures

Eye Contact:	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
SkinContact:	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact:	NA
Inhalation:	Allow the victim to rest in a well ventilated area. Seek immediate medical attention

Serious Inhalation:	Not available.
Ingestion:	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

5. Fire-fighting Measures

Flammability	:	Not Flammable.
Flash Point Method	:	Not available
Lower Flammable Limit	:	No Data
Uper mable Limit	:	No Data
Hazardous Combustion Products	:	Lead oxides Thermal decomposition can lead to release of irritating gases and vapors
Explosion Hazard	:	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Specific Hazards Arising from the Chemical	:	Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. Do not allow run-off from fire fighting to enter drains or water courses.
Protection of Fire Fighters	:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

6. Accidental Release Measures

Small Spill	:	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill		Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

7. Handling and Storage

Handling	:	Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Do not breathe vapors/dust. Do not ingest.
Storage	:	Carcinogenic, teratogenic or mutagenic materials should be stored in a separate locked safety storage cabinet or room

8. Exposure controls and personal protection

Engineering Control	:	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protective Equipment		Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product
Eye Protection	:	Safety glasses equipped with side shields should be adequate protection under most conditions of use.
Hand Protection	:	Use gloves constructed of chemical resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected. Use heat-protective gloves when handling product at elevated temperatures.
Exposure Limit	:	TWA: 0.15 CEIL: 0.45 (mg/m3) from ACGIH [1995] Consult local authorities for acceptable exposure limits



Gloves



Suit

9. Physical and chemical properties

Physical State	:	Solid
Appearance	:	Yellow
Odor	:	Not Available
Molecular Weight	:	223.19 g/mole
pH	:	NA
Boiling Point	:	Not Available
Melting Point	:	888°C (1630.4°F)
Critical Temperature	:	Not Available
Specific Gravity	:	9.53 (Water=1)
Lower Explosion Limit	:	No data available.
Vapor Pressure	:	No data available.
Vapor Density		No data available.
Viscosity	:	2.79-2.96cSt @ 100 F
Solubility in Water	:	Insoluble in Cold Water
Percent Volatile	:	Not available
Dispersion Properties	:	Not Available

10. Stability and reactivity

Chemical Stability	:	Stable.
Hazardous Polymerization	:	Not expected to occur.
Instability Temperature	:	Not Avaialble
Materials Incompatibility	:	Aluminum,Zirconium, Halogens, SO3, boron, silicon,zinc
Hazardous Decomposition Products		Lead compounds

11. Toxicological information

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animals: LD50: Not available. LC50: Not available.
Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC. The substance is toxic to the nervous system.
Other Toxic Effects on Humans: Very hazardous in case of ingestion. Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).
Special Remarks on Toxicity to Animals: Not available.
Special Remarks on Chronic Effects on Humans: Not available.
Special Remarks on other Toxic Effects on Humans: Not available.

12. Ecological information

Ecotoxicity	:	Not Available
BOD and COD 5	:	Not Available
Products of Biodegradation	:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation:	:	The products of degradation are as toxic as the original product.
Special Remarks on other Toxic Effects on Humans		Not Available

13. Disposal considerations

According to all applicable regulations. May be harmful to aquatic life. Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

14. Transport information

Not classifed as dangerous for any mode of transport.

15. Regulatory information

Federal and State Regulations:	:	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer,birth defects or other reproductive harm, which would require a warning under the statute: Lead oxide, yellow California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Lead oxide, yellow California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (male) which would require a warning under the statute: Lead oxide, yellow California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Lead oxide, yellow California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Lead oxide, yellow Pennsylvania RTK: Lead oxide, yellow Massachusetts RTK: Lead oxide, yellow TSCA 8(b) inventory: Lead oxide, yellow SARA 313 toxic chemical notification and release reporting: Lead oxide, yellow CERCLA: Hazardous substances.: Lead oxide,
Other Regulations	:	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
WHMIS (Canada)	:	CLASS D-2A: Material causing other toxic effects (VERY TOXIC)
DSCL (EEC)	:	R36- Irritating to eyes. R40- Possible risks of irreversible effects.
HMIS (U.S.A.)	:	Health Hazard: 2 Fire Hazard: 0 Reactivity: 0 Personal Protection: E
National Fire Protection Association (U.S.A.)	:	Health: 2 Flammability: 0 Reactivity: 0 Specific hazard:
Protective Equipment	:	Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

16. Other information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall 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 RX Marine International has been advised of the possibility of such damages.