Material Safety Data Sheet

Lithium Hydroxide (RXSOL-60-9001-025)

1. Product and Company Identifaction

Product Name	Lithium Hydroxide
Part Number	RXSOL-60-9001-025

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

Phone	+91 22 27815540 / 41 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	123@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

Name of Substance	Cas Number	EC Num
Lithium Hydroxide	1310-65-2	215-183

3. Hazards Identification

Emergency Overview

CAUTION! MAY CAUSE HAZARDOUS IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.
SAFETY DATA Ratings (Provided here for your convenience)

Health Rating	1 - Slight
Flammability Rating	1 - Slight
Reactivity Rating	0 - None
Contact Rating	1 - Slight
Lab Protective Equip	GOGGLES; LAB COAT; PROPER GLOVES : Personal Protection: J
Storage Color Code	Green (General Storage)

Potential Health Effects

Inhalation:	**Inhalation of large amounts of dust may cause irritation to the respiratory tract**
Ingestion:	**Extremely large oral dosages may produce gastrointestinal disturbances**
Skin Contact:	**Possible severe irritation on prolonged contact with moist or sensitive areas of the skin.**
Eye Contact:	**Dust may cause severe mechanical irritation**
Chronic Exposure	**No information found**
Aggravation of Pre-existing Conditions	**No information found**

4. First Aid Measures

Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion:	If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give any thing by mouth to an unconscious person. Get medical attention immediately.
Skin Contact:	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eye-lids occasionally. Get medical attention immediately.

5. Fire-fighting Measures

Fire:	Not considered to be a fire hazard.
Explosion:	Not considered to be an explosion hazard.
Suitable extinguishing media	Use any means suitable for extinguishing surrounding fire.
Special Information:	In the event of a fire, wear full protective clothing and NIOSH-approved selfcontained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Accidental Release Measures	Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

7. Handling and Storage

Handling And Storage	Keep in a tightly closed container. Store in a cool, dry, corrosion-proof, ventilated area away from moisture, sources of heat or ignition, combustibles and oxidizers. Protect against physical damage. Always add the caustic to water while stirring; never the reverse.

8. Exposure controls and personal protection

Airborne Exposure Limits:	For Lithium Hydroxide: - AIHA Workplace Environmental Exposure Limit (WEEL) - 1 mg/m3 as LiOH (One-minute TWA, Ceiling), equivalent to 1.75 mg/m3 as LiOH- HOH.
Ventilation System:	A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, a Manual of Recommended Practices, most recent edition, for details.
Personal Respirators (NIOSH Approved):	If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, airsupplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
Skin Protection:	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact

Eye Protection:	Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and chemical properties

Appearance:	White Crystalline solid. Odor: Odorless.
Solubility:	Appreciable (> 10%)
Specific Gravity:	1.51
pH	ca. 14.0 (1.0N solution).
% Volatiles by volume @ 21C (70F):	0
Boiling Point:	No information found.
Melting Point	470C (878F)
Vapor Density (Air=1):	Not applicable
Vapor Pressure (mm Hg):	Not applicable
Evaporation Rate (BuAc=1)	No Information Found

10. Stability and reactivity

Stability	Stable under ordinary conditions of use and storage. When exposed to air, lithium hydroxide picks up carbon dioxide and cakes over.
Hazardous Decomposition Products:	Emits toxic fumes of Lithium when heated to decomposition.
Hazardous Polymerization	Will not occur.
Incompatibilities:	For Lithium Hydroxide: water, carbon dioxide, strong acids, aluminum, zinc, and strong oxidizers.
Conditions to Avoid:	Moisture, extreme heat, and incompatibles.

11. Toxicological information

Toxicological Information	Lithium Hydroxide: 960 mg/m3/4H rat inhalation LC50. --------\Cancer Lists\---------- ---NTP Carcinogen--- Ingredient Known Anticipated IARC Category ---------- ---------- - - - - - - - -- - ---------- Lithium Hydroxide (1310-65-2) No No None

12. Ecological information

EnvironmentalFate:	No information found.
Environmental Toxicity:	Not Available

13. Disposal considerations

Waste treatment Method	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport information

DOT Classification:	Class 8: Corrosive material
Identification:	Lithium hydroxide, solid UNNA: 2680 PG: II
Special Provisions for Transport:	Not available.

15. Regulatory information

Regulatory Information	DOT Classification: Class 8: Corrosive material Identification: Lithium hydroxide, solid UNNA: 2680 PG: II Special Provisions for Transport--------\Chemical Inventory Status - Part 1\---------- Ingredient TSCA EC Japan Australia ---------- ---- --- ---- -------- Lithium Hydroxide (1310-65-2) Yes Yes Yes Yes --------\Chemical Inventory Status - Part 2\---------- --Canada-- Ingredient Korea DSL NDSL Phil. ---------- ----- --- ---- ----- Lithium Hydroxide (1310-65-2) Yes Yes No Yes --------\Federal, State & International Regulations - Part 1\---------- -SARA 302- ------SARA 313------ Ingredient RQ TPQ List Chemical Catg. ---------- --- ----- ---- ---------- Lithium Hydroxide (1310-65-2) No No No No --------\Federal, State & International Regulations - Part 2\---------- -RCRA- -TSCAIngredient CERCLA 261.33 8(d) ---------- ------ ------ ------ Lithium Hydroxide (1310-65-2) No No No Chemical Weapons Convention: No TSCA 12(b): No CDTA: No SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: No (Pure / Solid) : Not available.
Australian Hazchem Code:	None allocated. Poison Schedule: None allocated.
WHMIS	This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other information

NFPA Ratings:	Health: 3 Flammability: 0 Reactivity: 0: Personal Protection : J

Label Hazard Warning:	CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.
Label Precautions:	Avoid contact with eyes, skin and clothing. Avoid breathing dust. Use with adequate ventilation. Keep container closed. Wash thoroughly after handling
Label First Aid:	In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. **Product Use**: Laboratory Reagent.
Revision Information:	None
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 weassume 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.