

## 1. Product and Company Identification

www.rxmarine.com

Product Name  
Part Number

Lithium Hydroxide  
RXSOL-60-9001-025

### Company Details:

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

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Website [www.rxmarine.com](http://www.rxmarine.com)

## 2. Composition / Information on ingredients

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Name of Substance	Cas Number
Lithium Hydroxide	1310-65-2

## 3. Hazards Identification

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### 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

<b>Inhalation:</b>	<b>Inhalation of large amounts of dust may cause irritat</b>
<b>Ingestion:</b>	<b>Extremely large oral dosages may produce gastrointe</b>
<b>Skin Contact:</b>	<b>Possible severe irritation on prolonged contact with m</b>
<b>Eye Contact:</b>	<b>Dust may cause severe mechanical irritation</b>
<b>Chronic Exposure</b>	<b>No information found</b>
<b>Aggravation of Pre-existing Conditions</b>	<b>No information found</b>

## 4. First Aid Measures

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Inhalation:	Remove to fresh air. If not breathing, give artificial r oxygen. Get medical attention immediately.
Ingestion:	If swallowed, DO NOT INDUCE VOMITING. Give larg any thing by mouth to an unconscious person. Get medica
Skin Contact:	Immediately flush skin with plenty of water for at least

Eye Contact:

clothing and shoes. Get medical attention immediately. Clean shoes before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Hold upper eye-lids occasionally. Get medical attention immediately.

## 5. Fire-fighting Measures

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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 self-contained breathing apparatus with full face-piece operated in pressure demand or other positive pressure mode.

## 6. Accidental Release Measures

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### Accidental Release Measures

Ventilate area of leak or spill. Remove or isolate unprotected people away from the leak. Use appropriate personal protective equipment. See Section 8. Spills: Pick up and dispose of spill for reclamation or disposal, unless it generates dust.

## 7. Handling and Storage

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Handling And Storage

Keep in a tightly closed container. Store in a cool, dry place, away from moisture, sources of heat or ignition, combustibles and oxidizing materials. Always add the caustic to water while stirring; never the reverse.

## 8. Exposure controls and personal protection

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Airborne Exposure Limits:

For Lithium Hydroxide: - AIHA Workplace Environmental Exposure Limits (WELs) for LiOH (One-minute TWA, Ceiling), equivalent to 1.75 mg/m<sup>3</sup>.

Ventilation System:

A system of local and/or general exhaust is recommended to reduce exposure to Airborne Exposure Limits. Local exhaust ventilation is preferred to reduce the emissions of the contaminant at its source, preventing it from spreading into the 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, use a particulate respirator (NIOSH type N95 or better filter) that meets or exceeds the exposure limit or the maximum use concentration specified by the respirator supplier, whichever is lowest. A full-face piece respirator (with filters) may be worn up to 50 times the exposure limit, or as specified by the appropriate regulatory agency, or respirator supplier. If organic vapors (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use an organic vapor respirator. For emergencies or instances where the exposure level is unknown, use a positive-pressure, air-supplied respirator. WARNING: Do not use respirators in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, appropriate, to prevent skin contact

Eye Protection:

Use chemical safety goggles and/or full face shield w possible. Maintain eye wash fountain and quick-drench fa

## 9. Physical and chemical properties

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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

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Stability Stable under ordinary conditions of use and storage. When exposed to air, lithium hydroxide picks up carbon dioxide and

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

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Toxicological Information Lithium Hydroxide: 960 mg/m3/4H rat inhalation LC50.

-----\Cancer Lists\-----

---NTP Carcinogen---

Ingredient Known Anticipated IARC Category

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Lithium Hydroxide (1310-65-2) No No None

## 12. Ecological information

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EnvironmentalFate: No information found.

Environmental Toxicity: Not Available

## 13. Disposal considerations

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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

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DOT Classification:  
Identification:  
Special Provisions for Transport:

Class 8: Corrosive material  
Lithium hydroxide, solid UNNA: 2680 PG: II  
Not available.

## 15. Regulatory information

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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  
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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.  
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Lithium Hydroxide (1310-65-2) No No No No  
-----\Federal, State & International Regulations - Part 2 - RCRA- -TSCAIngredient CERCLA 261.33 8(d)  
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Lithium Hydroxide (1310-65-2) No No No  
Chemical Weapons Convention: No TSCA 12(b): No CD  
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressu  
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 Regulations (CPR) and the MSDS contains all of the info

## 16. Other information

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NFPA Ratings:  
Label Hazard Warning:  
Label Precautions:  
Label First Aid:  
Revision Information:  
Other Information

Health: 3 Flammability: 0 Reactivity: 0: Personal Protection  
CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.  
Avoid contact with eyes, skin and clothing. Avoid breathing vapors with container closed. Wash thoroughly after handling  
In case of contact, immediately flush eyes or skin with water and seek medical attention if irritation develops or persists. If you experience symptoms for any breathing difficulty. **Product Use:** Laboratory Use  
None  
The information above is believed to be accurate and complete as far as is available to us. However, we make no warranty of accuracy, express or implied, with respect to such information, and we do not accept any liability should make their own investigations to determine the suitability for any particular purposes. In no event shall we be liable for any damages, including for lost profits or any special, indirect, incidental, or consequential damages arising, even if **Rx Marine International** has been advised of the possibility of such damages.

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