

1. Product and Company Identification

www.rxmarine.com

Product Name Potassium Hydroxide 0.1N in isopropanol
Part Number RXSOL-60-1557-001

Chemical Formula: KOH in Isopropanol

Company Details:

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

Stock Point : Mumbai, Kandla, Kolkata, Chennai, Visakhapatnam, Surat, Fujairah, Muscat

Phone +91 22 65113333/ 5555 / 9999 / 27815540-42
Fax +91 22 2781 1318 ::::AOH :0091 9821214367
Email mail@rxmarine.com; 123@rxmarine.com

2. Composition / Information on ingredients

www.rxmarine.com

Chemical Name	CAS Number	EC Number
Potassium Hydroxide	1310-58-3	215-181-3
Iso propanol	67-63-0	200-661-7

*See Section 16

3. Hazards Identification

www.rxmarine.com

Physical hazards	Causes severe skin burns and eye damage
Health hazards	Harmful if swallowed
Environmental Hazards	Aquatic Chronic 2 - H411
Potential Acute Health Effects	Very hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant, corrosive), of ingestion, of inhalation. The degree of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can result in inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening and blistering.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. REPRODUCTIVE EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the substance in the form of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation can produce varying degree of respiratory irritation or lung damage.

4. First Aid Measures

www.rxmarine.com

Contact with skin	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean skin. Get medical attention immediately.
Contact with eyes	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Water may be used. Get medical attention immediately.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a shirt or waistband.

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
General	Serious Inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or stockings. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: Do not breathe hazardous vapors from the container. Do not get material on face, clothes or in mouth. Do not eat, drink or smoke while using this product. Seek immediate medical attention.

5. Fire-fighting Measures

www.rxmarine.com

Flammability of the Product	:	Non-flammable
Auto-Ignition Temperature	:	Not applicable.
Flash Points	:	Not applicable.
Flammable Limits	:	Not applicable.
Products of Combustion	:	Not applicable.
Fire Hazards in Presence of Various Substances	:	Metal , Acid
Explosion Hazards in Presence of Various Substances	:	Risks of explosion of the product in the presence of impact: Not available. Risk of explosion in the presence of static discharge: Not available.
Fire Fighting Media and Instructions	:	Not applicable.
Special Remarks on Fire Hazards	:	Violent reaction or ignition with strong oxidizing agents, acids, alcohols, p-hydroquinone, cyclopentadiene, germanium tetrachloride, anhydride, nitroalkanes, peroxodisulfate, sugars, 2,4-dinitrophenol, dicarbide. Molten ortho -phosphoric acid, potassium hydroxide. With phosphorus, tetrachloroethane are heated, phosphorus trichloroacetylene, is formed. Reaction with solution of potassium hydroxide, which is spontaneously flammable. Potassium hydroxide reaction with phosphorus is spontaneously flammable. Potassium hydroxide attacks metals such as aluminum, zinc, and iron, producing flammable hydrogen gas.
Special Remarks on Explosion Hazards	:	Potentially explosive reaction with chlorine dioxide, nitrobenzene, trichloride, peroxidized tetrahydrofuran. Reaction with ammonium hydroxide, heat sensitive explosive product may cause explosive decomposition. Reaction will occur when potassium hydroxide reacts with nitroso urea and methylene chloride, explodes on contact with phosphorus.

6. Accidental Release Measures

www.rxmarine.com

Personal Precautions	Wear protective clothing as per section 8.
Environmental Precautions	Avoid discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable absorbent material. The product contains substances which are water-soluble and may spread in water systems. The product is highly flammable.

Immediate Actions

Small Spill

Large Spill

substances which may spread in the atmosphere

Shut off source of leak if safe to do so.

Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid.

Corrosive solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water to clean up. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize with a dilute solution of acetic acid. 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

www.rxmarine.com

Handling

Keep container dry. Do not ingest. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, use suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. A self-contained breathing apparatus should be used in case of skin and eyes. Keep away from incompatibles such as organic materials, metals, acids, moisture.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 23°C (73.4°F)

8. Exposure controls and personal protection

www.rxmarine.com

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 recommended limits.

Personal Protection

Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent.

Personal Protection in case of Large Spill

Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used in case of inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling.

Exposure Limits

CEIL: 2 (mg/m³) from OSHA (PEL) [United States] CEIL: 2 (mg/m³) from ACGIH (TLV) [United States] Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties

www.rxmarine.com

Odour	:	Odourless
Taste	:	Sweetish, astringent.
Appearance	:	White
Molecular Weight	:	56.11 g/mole
pH (1% soln/water)	:	13
Boiling Point	:	Decomposition temperature
Melting Point	:	380°C (716°F)
Critical Temperature	:	Not available.
Specific Gravity	:	2.044 (Water = 1)
Vapor Pressure	:	Not available.
Vapor Density	:	Not available.
Volatility	:	Not available.
Odor Threshold	:	Not available.
Water/Oil Coeff	:	Not available.
Ionicity (in Water):	:	Not available.
Solubility	:	Easily soluble in cold water and ether.

www.rxmarine.com

www.rxmarine.com

www.rxmarine.com

Ecotoxicity	Ecotoxicity in water (LC50): 80 mg/l 24 hours [Mosquito Fish].
Mobility	Completely soluble in water
BOD5 and COD	Not available

Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise
Special Remarks on the Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise

13. Disposal considerations

www.rxmarine.com

Disposal considerations	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
-------------------------	--

14. Transport information

www.rxmarine.com

- **DOT Classification:** Class 8: Corrosive material
- **Identification:** Potassium hydroxide, solid UNNA: 1813 PG: II
- **Special Provisions for Transport:** Not available.

15. Regulatory information

www.rxmarine.com

Federal and State Regulations	USA release reporting list: Potassium hydroxide Pennsylvania RTK: Potassium hydroxide Florida: Potassium hydroxide Potassium hydroxide Massachusetts RTK: Potassium hydroxide New Jersey: Potassium hydroxide California Hazardous Substances: Potassium hydroxide TSCA 8(b) inventory: Potassium hydroxide CERCLA: Hazardous substances.: Potassium hydroxide: 453.6 kg
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is Inventory of Existing Commercial Chemical Substances. Other Classifications: WHMIS (Canada): CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS E: Corrosive solid.
HMIS (U.S.A.):	Health Hazard: 3 Fire Hazard: 0 Reactivity: 2 Personal Protection: j
National Fire Protection Association	Health: 3 Flammability: 0 Reactivity: 1 Specific hazard: NA
Protective Equipment:	Gloves. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. respirator when ventilation is inadequate. Splash goggles.

16. Other information

www.rxmarine.com

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability 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. Rx Marine International shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential damages, even if Rx Marine International has been advised of the possibility of such damages.

DISCLAIMER OF LIABILITY : The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. Rx Marine International assumes responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.