#### 1. Product and Company Identifaction

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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

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 Chemical Name
 CAS Number
 EC Number

 Potassium Hydroxide
 1310-58-3
 215-181-3

 Iso propanol
 67-63-0
 200-661-7

## 3. Hazards Identification

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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 inhal

of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin coinflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, charact sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflamma characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening

blistering.

Potential Chronic Health Effects CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells

EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to upper respeyes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated

can produce varying degree of respiratory irritation or lung damage.

#### 4. First Aid Measures

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Contact with skin In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated of

Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean s

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

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 unco

large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a

waistband.

<sup>\*</sup>See Section 16

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get

immediately.

General Serious Inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, be breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WAI

hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infec

Seek immediate medical attention.

# 5. Fire-fighting Measures

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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 impact: Not available. Ris presence of static discharge
Fire Fighting Media and Instructions	:	Not applicable.
Special Remarks on Fire Hazards		Violent reaction or ignition acids, alcohols, p-cyclopentadiene, germani anhydride, nitroalkanes peroxodisulfate, sugars, 2 dicarbide. Molten ortho potassium hydroxide. We tetrachloroethane are heate chloroacetylene, is formed solution of potassium hydroxide reacti is spontaneously flammable little Potassium hydroxide attacks metals such as alum flammable hydrogen gas.
Special Remarks on Explosion Hazards	;	Potentially explosive reaction chlorine dioxide, nitroble trichloride, peroxidized tet Reaction with ammonium lineat sensitive explosive procause explosive decompositive will occur when potassium nitroso urea and methyle explodes on contact with potential dioxide.

## 6. Accidental Release Measures

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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 material. The product contains substances which are water-soluble and may spread in water systems. The product

substances which may spread in the atmosphere

Immediate Actions

Shut off source of leak if safe to do so.

Small Spill

Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the resi

solution of acetic acid.

Large Spill

Corrosive solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use wat vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neu 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

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Handling

Keep container dry. Do not ingest. Do not breathe dust. Never add water to this product. In case of insufficient suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. A

Storage

skin and eyes. Keep away from incompatibles such as organic materials, metals, acids, moisture. 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

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**Engineering Control** 

Personal Protection

Personal Protection in case of Large

Spill

**Exposure Limits** 

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below reco limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivale Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling CEIL: 2 (mg/m3) from OSHA (PEL) [United States] CEIL: 2 (mg/m3) from ACGIH (TLV) [United States] Consult I acceptable exposure limits.

### 9. Physical and chemical properties

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Odour	:	Odourless
Taste	:	Sweetish, astringent.
Appereance	:	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 ether.

#### 10. Stability and reactivity

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Stability	: The product is stable.
Instability Temperature	: Not available
Conditions of Instability	: Incompatible materials, dust or water.
Incompatibility with various substances	: Highly reactive with acids. R metals, moisture.
Corrosivity	: Extremely corrosive in presence Slightly corrosive in presence of Non-corrosive in presence of
Special Remarks on Reactivity	Hygroscopic (absorbs moist water or alcohol or when the heat is generated. Reacts halogenated hydrocarbons anhydrides, isocyanates, aldehydes, alcohols, gylcosolution. Also incompa (nitrobenzene, nitromethan materials, acid anhydrides, a chlorides, magnesium, perodioxide, maleic dicarbide, such as aluminum, tin, lead,
Polymerization	: Will not occur.

# 11. Toxicological information

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Routes of Entry Absorbed through skin. Inhalation. Ingestion. Toxicity to Animals Acute oral toxicity (LD50): 273 mg/kg [Rat].

Chronic Effects on Humans MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. May cause damage to the following organs: uppe

skin, eyes.

Other Toxic Effects on Humans Extremely hazardous in case of inhalation (lung corrosive). Very hazardous in case of skin contact (corrosive, irritan

(corrosive), of ingestion, .

Special Remarks on Toxicity to

Animals

Not available.

Special Remarks on Chronic Effects

on Humans

Acute Potential Health Effects: Skin: Causes severe skin irritation and burns. Eyes: Causes severe eye irritation and irreversible eye injury. Inhalation: Causes severe irritation and burns of the respiratory tract and mucous membranes. I to chemical pneumonitis Ingestion: Harmful if swallowed. May cause severe and permanent damage to the digestive tr irritation and burns of the gastrointestina (digestive) tract with abdominal pain, vomiting and possible death. May ca the digestive tract. Chronic Potential Health Effects: Chronic contact with dilute solutions of potassium hydroxide car

Inhalation can produce chronic productive cough, and

shortness of breath

# 12. Ecological information

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Ecotoxicity in water (LC50): 80 mg/l 24 hours [Mosquito Fish]. Ecotoxicity

Mobility Completely soluble in water

BOD5 and COD Not available Products of Biodegradation Special Remarks on the Products of Biodegradation Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise

## 13. Disposal considerations

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Disposal considerations

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

#### 14. Transport information

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- DOT Classification: Class 8: Corrosive material

- Identification: Potassium hydroxide, solid UNNA: 1813 PG: II

- Special Provisions for Transport: Not available.

#### 15. Regulatory information

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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

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