Material Safety Data Sheet

Potassium Silicate Solution (RXSOL-81-8162-260)

1. Product and Company Identifaction

Product Name	RXSOL-81-8162-260
Product Type	Potassium SILICATE

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Chemica Name	Concentration	CAS Number
Potassium silicate	40-50	1312-76-1
Water	50-60	7732-18-5

3. Hazards Identification

Potential Acute Health Effects:
Extremely hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion, of inhalation. Liquid or spray

mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:
Extremely hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion, of inhalation. Non- sensitizer for skin. Non-permeator by skin. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated or prolonged inhalation of vapors may lead to chronic respiratory irritation.

4. First Aid Measures

Eye Contact:
Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:
If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands : Gently and thoroughly wash

the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

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.

Serious Ingestion: Not available

5. Fire-fighting Measures

Fire-fighting measures	Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

6. Accidental Release Measures

Personal Precautions	Wear protective clothing as per section 8
Environmental Precautions	No special precautions are required for this product Immediate Actions. Shut off source of leak if safe to do so
Clean Up Actions	Absorb spillage in inert material and shovel up. Flush spill area with copious amounts of water

7. Handling and Storage

Handling	The usual precautions for handling chemicals should be observed. Eyewash bottles should be available - See Section 8.
Storage	Keep only in the original container in a cool, well ventilated place . Protect from frost.

8. Exposure controls and personal protection

Exposure Limits	There are no recommended or established controls for this product.
Exposure controls	No special ventilation is required unless the product is used in a spray form.
Occupational exposure controls	Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended) No respiratory protection is required unless subject to contact with substance mist.


Gloves


Goggles


Suit

9. Physical and chemical properties

Odour	Characteristic odour
Appearance	Clear Colorless
pH	Basic
Boiling point	>100 °C at 760 mm / Hg
Melting Point	Not Available
Vapour pressure	not known
Specific Gravity	1.4 to 1.42
Solublity in Water	Soluble

10. Stability and reactivity

Stability : The product is stable.
Instability: Temperature: Not available.
Conditions of Instability:Not available.
Incompatibility with various substances: Highly reactive with acids. Reactive with oxidizing agents.
Corrosivity: Slightly corrosive to corrosive in presence of steel, of aluminum, of zinc, of copper. Non-corrosive in presence of glass.
Special Remarks on Reactivity: Not available.
Special Remarks on Corrosivity:Not available.
Polymerization:No

11. Toxicological information

Routes of Entry: Eye contact. Inhalation. Ingestion.
Toxicity to Animals: LD50: Not available. LC50: Not available.
Chronic Effects on Humans:Not available.
Other Toxic Effects on Humans:Extremely hazardous in case of skin contact (corrosive, irritant), of ingestion, of inhalation.
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.
BOD5 and COD: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 the Products of Biodegradation:Not available.

13. Disposal considerations

Disposal considerations	Do not discharge into drains or the environment, dispose to an authorised waste collection point Disposal should be in accordance with local, state or national legislation

14. Transport information

- Not classified as hazardous for transport

15. Regulatory information

Federal and State Regulations:
TSCA 8(b) inventory: Potassium silicate; Water
Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
Other Classifications:
WHMIS (Canada): CLASS D-2B: Material causing other toxic effects (TOXIC).
DSCL (EEC): R35- Causes severe burns.
HMIS (U.S.A.):
Health Hazard:3
Fire Hazard:0
Reactivity:0
Personal Protection:
National Fire Protection Association (U.S.A.):
Health:3
Flammability:0
Reactivity:0
Specific hazard:
Protective Equipment:
Gloves. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Face shield

16. Other information

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