1. Product and Company Identifaction

www.rxmarine.com

Product Name Carbon Dioxide Absorbent
Part Number RXSOL-81-8197-020

Company Details:....

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

Branch: Kandla, Mumbai, Chennai, Vizag, Kolkata, UAE, OMAN, CANADA and KENYA

Phone +91 22 20871200 - 1400

Fax +91 22 27612100 :::AOH :0091 9821214367

 Email
 mail@rxmarine.com

 Website
 www.rxmraine.com

2. Composition / Information on ingredients

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 Component
 CAS No.
 Weight %

 Sodium hydroxide
 1310-73-2
 90-95

 Silica, amorphous
 7631-86-9
 5 - 10

For the full text of the H-Statements mentioned in this Section, see Section 16.

3. Hazards Identification

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Classification of the substance or mixture

Classification This chemical is considered hazardous by the 2012 OSHA Hazard

Communication Standard (29 CFR 1910.1200)

Label elements

Signal Word Danger

Hazard Statements May be corrosive to metals

Causes severe skin burns and eye damage

May cause respiratory irritation

Precautionary Statements

Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Keep only in original container

Response Immediately call a POISON CENTER or doctor/physician

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower

Wash contaminated clothing before reuse

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continuerinsing

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting Ingestion

Absorb spillage to prevent material damage

Spills Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Store in corrosive resistant polypropylene container with a resistant inliner

Store in a dry place

Disposal Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC) None identified

WARNING. Cancer - https://www.p65warnings.ca.gov/.

4. First Aid Measures

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Description of first aid measures

Eyes

General advice Immediate medical attention is required. Show this safety data sheet to

the doctor inattendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least

15 minutes. Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes.

Immediate medical attention is required.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. Do not use

mouth-to-mouthmethod if victim ingested or inhaled the substance; give artificial respiration withtheaidofapocket mask equipped with a one-way

valve or other proper respiratory medical device.

Immediate medical attention is required.

Ingestion Do NOT induce vomiting. Call a physician or poison control center

immediately

Causes burns by all exposure routes. . Product is a corrosive material. Use Most important symptoms and effects of gastriclavage or emesis is contraindicated. Possible perforation of

stomach or esophagusshouldbe investigated: Ingestion causes severe swelling, severe damage to the delicatetissueand danger of perforation.

Notes to Physician Treat symptomatically.

5. Fire-fighting Measures

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Suitable extinguishing media

Unsuitable extinguishing media

Flash Point

Autoignition Temperature

Explosion Limits

Method

CO 2 dry chemical, dry sand, alcohol-resistant foam.

No information available No information available

No information available

Upper No data available
Lower No data available

Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical Corrosive material. Causes burns by all exposure routes .

Hazardous Combustion Products Thermal decomposition can lead to release of irritating gases and vapors.

Sodium oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand,

 $MSHA/NIOSH\ (approved\ or\ equivalent)\ and full\ protective\ gear.\ Thermal$

decomposition can lead to release of irritating gases and vapors.

6. Accidental Release Measures

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Personal Precautions Use personal protective equipment as required. Ensure adequate

ventilation. Evacuatepersonnel to safe areas. Avoid contact with skin, eyes

or clothing. Avoid dust formation

Environmental precautions Should not be released into the environment. Do not allow material to

contaminategroundwater system. Do not flush into surface water or sanitary sewer system. See Section12foradditional Ecological

Information.

Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Avoid dust

formation.

7. Handling and Storage

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Handling

Use only under a chemical fume hood. Wear personal protective

equipment/face protection. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate

medical assistance.

Storage Immediately change contaminated clothing. Apply preventive skin

protection. Wash hands and face after working with substance. For

precautions see section 2.2.

8. Exposure controls and personal protection

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Exposure Guidelines

Component ACGIH TLV OSHA PEL NIOSH IDLH Mexico OEL (TWA)

Sodium hydroxide Ceiling: 2 mg/m³ Ceiling: 2 mg/m³ IDLH: 10 mg/m³ Ceiling: 2 mg/m³

TWA: 2 mg/m^3 Ceiling: 2 mg/m^3 Silica, amorphous (Vacated) TWA: 6 mg/m^3 IDLH: 3000 mg/m^3

TWA: 6 mg/m³

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and

safetyshowersare close to the workstation location.

Personal Protective Equipment

Respiratory Protection

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as describedbyOSHA's eye and face protection regulations in 29 CFR

1910.133 or EuropeanStandardEN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or EuropeanStandardEN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation

or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Physical state Solid
Appearance Brown
Odor Odorless

Odor Threshold No information available pH No information available

Melting Point/Range No data available

Boiling Point/Range No information available Flash Point No information available

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available Lower No data available

Vapor Pressure No information available

Vapor Density Not applicable

Specific GravityNo information availableSolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo data available

Autoignition Temperature No information available
Decomposition Temperature No information available

Viscosity Not applicable

10. Stability and reactivity

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Reactive Hazard None known, based on information available Stability Stable under normal conditions. Hygroscopic

Conditions to Avoid Incompatible products. Excess heat. Exposure to moist air or water.

Incompatible materials Strong oxidizing agents, Strong acids

Hazardous decomposition products Thermal decomposition can lead to release of irritating gases and vapors,

Sodiumoxides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

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Acute toxicity

Product Information No acute toxicity information is available for this product.

Component Information

Component LD50 Oral LD50 Dermal LC50 Inhalation
Sodium hydroxide 140 - 340 mg/kg (Rat) 1350 mg/kg (Rabbit) Not listed

Silica, amorphous >5000 mg/kg (Rat) >2000 mg/kg (Rabbit) -

Toxicologically Synergistic Products

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Causes burns by all exposure routes

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as

acarcinogen.

CAS No. **IARC** NTP **ACGIH OSHA** Mexico Component Sodium hydroxide 1310-73-2 Not listed Silica, amorphous 7631-86-9 Known Not listed

Mutagenic EffectsNo information availableReproductive EffectsNo information availableDevelopmental EffectsNo information availableTeratogenicityNo information available

STOT - single exposure Respiratory system
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and delayed Product is a corrosive material. Use of gastric lavage or emesis is

contraindicated.

Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and

danger of perforation

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual

entry in RTECS for complete information.

12. Ecological information

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Ecotoxicity Contains a substance which is:. Harmful to aquatic organisms. The

product contains following substances which are hazardousforthe

environment.

Component Freshwater Algae Freshwater Fish Microtox Water Flea
Sodium hydroxide Not listed LC50: = 45.4 mg/L, 96h Not listed Not listed

static (Oncorhynchus

mykiss)

Silica, amorphous EC50: 440 mg/L/72h LC50: 5000 mg/L/96 h Not listed EC50: 7600 mg/L/48h

Persistence and Degradability Insoluble in water
Bioaccumulation/ Accumulation No information available

Mobility Is not likely mobile in the environment due its low water solubility.

13. Disposal considerations

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Waste treatment Method

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

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DOT

UN-No UN1823

Proper Shipping Name SODIUM HYDROXIDE, SOLID, MIXTURE

Hazard Class

Packing Group

TDG

UN-No UN1823

Proper Shipping Name SODIUM HYDROXIDE, SOLID, MIXTURE

Hazard Class 8
Packing Group II

IATA

UN-No UN1823

Proper Shipping Name SODIUM HYDROXIDE, SOLID

Hazard Class 8
Packing Group II

IMDG/IMO

UN-No UN1823

Proper Shipping Name SODIUM HYDROXIDE, SOLID

Hazard Class 8
Packing Group II

15. Regulatory information

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United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification TSCA - EPA Regulatory				
			-				
				Flags			
			Active-Inactive				
Sodium hydroxide	1310-73-2	X	ACTIVE	-			
Silica, amorphous	7631-86-9	X	ACTIVE	-			

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea(KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Sodium hydroxide	1310-73-2	X	-	215-185-5	X	X	X	X	X	KE-31487
Silica,	7631-86-9	X	-	231-545-4	X	X	X	X	X	KE-31032

16. Other information

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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.

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