

1. Product and Company Identification

www.rxmarine.com

Product Name Soda Lime with Indicator
Part Number [RXSOL-81-8197-025](#)

Company Details:

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

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

Phone +91 22 27815541 / 42
Fax +91 22 2781 1318+91 22 2781 5543 ::AOH 0091 9821214367
Email mail@rxmarine.com

2. Composition / Information on ingredients

www.rxmarine.com

Chemical Name	Concentration	CAS Number
Calcium Hydroxide	50 - 100 %	1305 - 62 -0
Sodium Hydroxide	0.1 - 1 %	1310 - 73- 2
Potassium Hydroxide	2.0 - 5.0 %	1310- 58 -3

3. Hazards Identification

www.rxmarine.com

Odour	Charastic Order
Appearance	Granular, Off white or pink depends on specification
Contact with eyes	Risk of serious damage to eyes (R41).
Contact with skin	Mildly irritating to skin.
Inhalation	Vapours or dust may cause irritation of eyes, nose and respiratory tract.
Ingestion	NA.

4. First Aid Measures

www.rxmarine.com

Contact with skin	Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash with soap and water.
Contact with eyes	If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes. Seek medical advice.
Ingestion	Never give anything by mouth to an unconscious person. Give plenty of water to drink. Seek medical advice if necessary.
Inhalation	Seek immediate medical advice. If symptoms develop, supply fresh air. If required, provide artificial respiration and medical treatment.
General	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

5. Fire-fighting Measures

www.rxmarine.com

- Non combustible
- Carbon oxides may be formed
- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

6. Accidental Release Measures

www.rxmarine.com

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 suitable inert material. Flush spill area with copious amounts of water.

Special Precautions

NA

7. Handling and Storage

www.rxmarine.com

Handling

The usual precautions for handling chemicals should be observed Eyewash bottles should be available

Storage

Keep only in the original container in a cool, well ventilated place (S3/9/49) Protect from exposure to light

8. Exposure controls and personal protection

www.rxmarine.com

Exposure Limits

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Personal Protection

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product. Protective work

Occupational exposure controls

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respirator device that is independent of circulating air. Use an approved dust mask.



Goggles

9. Physical and chemical properties

www.rxmarine.com

Odour

Charastic Order

Appearance

Granular, Off white or pink depends on specification

pH (1 % Solution)

Basic

Boiling point

NA

Melting Point

580°C (1076°F) based on data for: Calcium hydroxide. Weighted average: 554.93°C (1030.9°F)

Odor Threshold

NA

Water/Oil Dist. Coeff

Not available.

Specific gravity (water=1)

Weighted average: 2.22

Vapor Pressure:

Not applicable.

Vapor Density

Not applicable.

Volatility

Not applicable.

Solubility

Slightly soluble in cold water. Insoluble in diethyl ether.

10. Stability and reactivity

www.rxmarine.com

Stability

The product is stable

Instability Temperature	NA
Conditions of Instability	Incompatible materials, water
Incompatibility with various substances	Reactive with metals, acids, moisture. Slightly reactive to reactive with oxidizing agents, reducing agents, organic materials.
Corrosivity	Highly corrosive in presence of aluminum, of zinc. Non-corrosive in presence of glass, of stainless steel(316).
Special Remarks on Reactivity	Incompatible with maleic anhydride, phosphorous, nitroethane, nitromethane, nitorparaffins, nitropropane, polychlorinated benzodioxins analagous to extremely toxic tetrachlorodibenzodioxin may be formed. Readily absorbs CO ₂ and calcium carbonate. (Calcium hydroxide). When dissolved in water or alcohol or when the solution is treated with a strong acid, a large amount of heat is generated. Reacts violently with acids, halogens, halogenated hydrocarbons, maleic anhydride, organic anhydrides, isocyanides, epichlorhydrin, aldehydes, alcohols, glycols, phenols, cresols, caprolactum solution. Also incompatible with (nitrobenzene, nitromethane, nitrogen trichloride), organic materials, acid anhydrides, acid chlorides, magnesium tetrahydrofuran, chlorine dioxide, maleic dicarbide, sugars. When wet attacks metals such as aluminum, tin, lead, and iron hydroxide)
Special Remarks on Corrosivity	When wet, attacks metals such as aluminum, tin, lead, and zinc, producing flammable hydrogen gas. Severe corrosive effects on copper and bronze. (Potassium hydroxide)
Polymerization	Will not occur.

11. Toxicological information

www.rxmarine.com

Routes of Entry

Absorbed through skin. Inhalation. Ingestion.

Toxicity to Animals

Acute oral toxicity (LD50): 273 mg/kg [Rat]. (Potassium hydroxide).

Chronic Effects on Humans

Mutagenic for mammalian somatic cells. [Potassium hydroxide]. Mutagenic for mammalian somatic cells. [Somatic cells]

Other Toxic Effects on Humans

Contains material which may cause damage to the following organs: mucous membranes, upper respiratory tract, skin, eyes.

Hazardous in case of skin contact (irritant), of eye contact (corrosive), of ingestion, of inhalation (lung corrosive). Slightly hazardous in case of skin contact (corrosive, permeator).

Not Available

Special Remarks on Toxicity to Animals

Acute Potential Health Effects: Skin: Causes skin irritation. Alkalies penetrate skin slowly. The extent of damage depends on the duration of contact. Eyes: Causes severe irritation of the eyes. Can cause "Lime Burns" of the eye. Clumps may form in the recesses of the eye, releasing calcium hydroxide over a long period of time. Severe burns of the cornea with possible damage to the corneal nerves can occur. Ingestion: Causes gastrointestinal tract irritation with vomiting, diarrhea, severe pain. Vomiting may cause blood and desquamated mucosal lining. May cause delayed gastrointestinal burns and perforation (gastric or esophageal). Abdominal pain and rapid fall in blood pressure. Inhalation: Causes severe irritation of the respiratory tract (nose, throat, lungs). Irritation of mucous membranes with coughing, wheezing and/or shortness of breath. Material is destructive to tissue of the mucous membranes of the upper respiratory tract. Chronic Potential Health Effects: Prolonged or repeated skin contact may produce severe irritation and/or burns (Calcium hydroxide)

Special Remarks on other Toxic Effects on Humans

12. Ecological information

www.rxmarine.com

Ecotoxicity

NA

BOD5 & COD

NA

Persistence and Biodegradability

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation

Not Available

Other Adverse Effects

Presents little or no hazard to the environment

13. Disposal considerations

www.rxmarine.com

Classification

EU Waste class: -

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

www.rxmarine.com

- Not classified as hazardous for transport in any mode IATA, ROAD, SEA

15. Regulatory information

www.rxmarine.com

Safety, health and environmental regulations/legislation specific for the EU-Regulations No REACH Annex XVII restrictions SODA LIME WITH INDICATOR AR is not on the REACH Candidate List SODA LIME WITH INDICATOR AR is not on the REACH Annex XIV List

Safety, health and environmental regulations specific for the product in European Inventory of Existing Commercial Chemical Substances (EINECS) -Listed. EC Inventory Listed. United States Toxic Substances Control Act (TSCA) Inventory- Listed. China Catalog of Hazardous chemicals 2015 Not- Listed. New Zealand Inventory of Chemicals (NZIoC) Listed. PICCS -Listed. Vietnam National Chemical Inventory -Listed. IECSC Listed. Korea Existing Chemicals List (KECL) -Listed.

National legislation

Germany 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) Denmark Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

DSCL (EEC)

R8- Contact with combustible material may cause fire. R20/22- Harmful by inhalation and if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin. R42/43- May cause sensitization by inhalation and skin contact. S22- Do not breathe dust. S24- Avoid contact with skin. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37- Wear suitable gloves.

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.

Chemical Safety Assessment

No additional information available

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 or any other warranty, express or implied, 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 for their particular purposes. In no event shall Rx Marine International 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.

DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, 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. For this and other reasons, we do not assume 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. This MSDS was 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.