Material Safety Data Sheet

Soda Lime with Indicator (RXSOL-95-8197-025)

1. Product and Company Identifaction

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

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2. Composition / informationon ingredients

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

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

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 seek immediate 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

- Non combustible
- Carbon oxides may be formed
- 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 suitable inert material. Flush spill area with copious amounts of water.
Special Precautions	NA

7. Handling and Storage

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

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 clothing.

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



Goggles

9. Physical and chemical properties

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

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, alkalis

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 phenols + potassium nitrate. When chlorinated phenols are heated for analytical purposes with calcium hydroxide-potassium nitrate mixutures, chlorinated benzodioxins analagous to extremely toxic tetrachlorodibenzodioxin may be formed. Readily absorbs CO2 from air forming calcium carbonate. (Calcium hydroxide). When dissolved in water or alcohol or when the solution is treated with acid, much heat is generated. Reacts violently with acids, halogens, halogenated hydrocarbons, maleic anhydride, organic anhydrides, isocyanates, alkylene oxides, epichlorhydrin, aldehydes, alcohols, gylcols, phenols, cresols, caprolactum solution. Also incompatible with nitro compounds (nitrobenzene, nitromethane, nitrogen trichloride), organic materials, acid anhydrides, acid chlorides, magnesium, peroxidized tetrahydrofuran, chlorine dioxide, maleic dicarbide, sugars. When wet attacks metals such as aluminum, tin, lead, and zinc. (Potassium hydroxide)
Special Remarks on Corrosivity	When wet, attacks metals such as aluminum, tin, lead, and zinc, producing flammable hydrogen gas. Severe corrosive effect on brass and bronze. (Potassium hydroxide)
Polymerization	Will not occur.

11. Toxicological information

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. [Sodium hydroxide]. Contains material which may cause damage to the following organs: mucous membranes, upper respiratory tract, skin, eyes.
Other Toxic Effects on Humans	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).
Special Remarks on Toxicity to Animals	Not Available
Special Remarks on other Toxic Effects on Humans	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 lodge deep in the recesses of the eye, releasing calcium hydroxide over a long period of time. Severe burns of the cornea with possible damage to to corneal nerves can occur. Ingestion: Causes gastrointestinal tract irritation with vomiting, diarrhea, severe pain. Vomitus may contain blood and desquamated mucosal lining. May cause delayed gastrointestinal burns and perforation (gastric or esophageal) with severe abdominal pain and rapid fall in blood pressure. Inhalation: Causes severe irritation of the respiratory tract (nose, throat, lungs), and mucous membranes with coughing, wheezing and/or shortness of breath. Material is destructive to tissue of the mucous membranes and upper respiratory tract. Chronic Potential Health Effects: Prolonged or repeated skin contact may produce severe irritation or dermatitis. (Calcium hydroxide)

12. Ecological information

Ecotoxicity	NA
BOD5 & COD	NA

Persistence and Biodegradability	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 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

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

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

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	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 question	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

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