# Material Safety Data Sheet

**Caustic Soda Lye** (RXSOL-20-1308-100)

## 1. Product and Company Identifaction

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|---|---|
| Product Name | RXSOL-20-1308-100 |
| Product Type | Caustic Soda Lye |

Company Details:

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

Stock Point : Mumbai, Kolkata, Chennai, Kandla, Visakhapatnam, Fujairah, Oman, Kenya, Canada

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


## 2. Composition / informationon ingredients

| Chemical Name | Percent | Value | Test Method |
|---|---|---|---|
| Sodium hydroxide(NaOH),min. | % | 48-55 | STAS3068 |
| Sodium carbonate (Na2CO3), max | % | 0.7 | STAS3068 |
| Water | % | 45-52 | |

## 3. Hazards Identification

Poison! Danger! Corrosive. May Be Fatal If Swallowed. Harmful If Inhaled. Causes Burns To Any Area Of Contact . Reacts With Water, Acids And Other Materials.

Potential Health Effects:-

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| Inhalation | Severe irritant. Effects from inhalation of dust or mist vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure. Symptoms may include sneezing, sore throat or runny nose. Severe pneumonitis may occur. |
| Ingestion | Corrosive! Swallowing may cause severe burns of mouth, throat, and stomach .Severe scarring of tissue and death may result. Symptoms may include bleeding, vomiting diarrhea, fall in blood pressure. Damage may appears days after exposure. |
| Skin Contact | Corrosive! Contact with skin can cause irritation or severe burns and scarring with greater exposures. |
| Eye Contact | Corrosive! Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness. |

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| Chronic Exposure | Prolonged contact with dilute solutions or dust has a destructive effect upon tissue. Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance. |

## 4. First Aid Measures

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| Inhalation | Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. |
| Ingestion | Do Not Induce Vomiting! Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately. |
| Skin Contact | Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician, immediately. Wash clothing before reuse. |
| Eye Contact | Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately. |

## 5. Fire-fighting Measures

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| Fire | Not considered to be a fire hazard. Hot or molten material can react violently with water. Can react with certain metals, such as aluminum, to generate flammable hydrogen gas. |
| Explosion | Not considered to be an explosion hazard. |
| Fire Extinguishing Media | Use any means suitable for extinguishing surrounding fire. Adding water to caustic solution generates large amounts of heat. |

## 6. Accidental Release Measures

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. Do not flush caustic residues to the sewer. Residues from spills can be diluted with water, neutralized with dilute acid such as acetic, hydrochloric or sulfuric. Absorb neutralized caustic residue on clay, vermiculite or other inert substance and package in a suitable container for disposal.

## 7. Handling and Storage

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry,ventilated area away from sources of heat, moisture and incompatibilities. Always add the caustic to water while stirring; never the reverse. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product. Do not store with aluminum or magnesium. Do not mix with acids or organic materials.

## 8. Exposure controls and personal protection

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| Airborne Exposure Limits | OSHA |
| OSHA Permissible Exposure Limit (PEL) | 2 mg/m3 Ceiling – ACGIH |
| Threshold Limit Value (TLV) | 2 mg/m3 Ceiling |

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| Ventilation System | A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recomm-ended Practices, most recent edition, for details. |
| Personal Respirators | If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. |
| WARNING | Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. |
| Skin Protection | Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. |
| Eye Protection | Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area. |

## 9. Physical and chemical properties

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| Appearance | Clear to opeque |
| Odor | Odorless |
| Solubility | 100% |
| pH | 13 - 14 (0.5% soln.) |
| Specific Gravity | 1.2 – 1.53 |
| % Volatiles by volume @ 21C (70F) | 0 |
| Boiling Point | 1390C(2534F) |
| Melting Point | 318C(604 F) |
| Vapor Pressure (mm Hg) | Negligible |
| Evoporation Rate (BuAc = 1) | No information found |

## 10. Stability and reactivity

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| Stability | Stable under ordinary conditions of use and storage. Very hygroscopic. Can slowly pick up moisture from air and react with carbon dioxide from air to form sodium carbonate. |
| Hazardous Decomposition Products | Sodium Hydroxide. Decomposition by reaction with certain metals releases flammable and explosive hydrogen gas.Hazardous |

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| Hazardous Polymerization | Will not occur. |
| Incompatibilities | Contact with water, acids, flammable liquids, and organic halogen compounds, especially trichloroethylene, may cause fire or explosion. Contact with nitromethane and other similar nitro compounds causes formation of shock-sensitive salts. Contact with metals such as aluminum, tin, and zinc causes formation of flammable hydrogen gas. |
| Conditions to Avoid | Moisture, dusting and incompatibles. |

## 11. Toxicological information

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| Skin Irritation | irritant wash with soap water |
| Eye Irritat | Moderate irritant , flush with copious amounts of water |
| Sensitization | Not Sensitizing . |

(All above information as per data available with us)

## 12. Ecological information

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| Comment | Not applicable |
| Ecotoxicity | Not applicable , Readily biodegradable |
| Water hazard class 2 (self-assessment) | Hazardous for water. |

Do not allow product to reach ground water, water bodies or sewage system. Danger to drinking water if even small quantities leak into soil.

## 13. Disposal considerations

This material must be disposed with local national regulations. Product Recommendation ( Recommended cleaning agent: water ) Can be burnt under adherence to the necessary technical regulations. Disposal must be made according to official regulations.Can be reused or recycled after cleaning .

## 14. Transport information

- Marine pollutant: No
- Transport/Additional information

## 15. Regulatory information

• Irritating to eyes and skin.
• Safety phrases
2 Keep out reach of children
If swallowed, seek medical attention immediately
22 Harmful if swallowed
26 In case of contact with eyes, rinse immediately with plenty of water and
seek medical attention.
23 Do not Breathe
27 After contact with skin, wash immediately with plenty of water and soap and rinse thoroughly.
41 Risk of serious damage to eyes

• National regulations

## 16. Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.Department issuing data specification sheet Environment protection department.Note : No Enviromental Problems Are Expected If The Product Is Handled Correctly.

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