

# Caustic Soda Liquid (RXSOL-22-1308-026)

MATERIAL SAFETY DATA SHEET • SALALAH CHEMICAL, OMAN

## 1. Product and Company Identification

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|              |                     |
|--------------|---------------------|
| Product Name | Caustic Soda Liquid |
| Part Number  | RXSOL-22-1308-026   |

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

|         |                                                          |
|---------|----------------------------------------------------------|
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| Fax     | +91 22 27612100 ::AOH :0091 9821214367                   |
| Email   | <a href="mailto:mail@rxmarine.com">mail@rxmarine.com</a> |
| Website | <a href="http://www.rxmarine.com">www.rxmarine.com</a>   |

## 2. Composition / Information on ingredients

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| Product name              | Cas No    | EC No     | Weight      | Formula |
|---------------------------|-----------|-----------|-------------|---------|
| Sodium hydroxide solution | 1310-73-2 | 215-185-5 | 40,00 g/mol | NaOH    |

## 3. Hazards Identification

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|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal Word                                | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Hazard Statements                          | H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Precautionary statements                   | P234 Keep only in original packaging. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P363 Wash contaminated clothing before reuse. |
| Classification of the substance or mixture | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Supplemental Hazard Statements             | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other hazards | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 4. First Aid Measures

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|                                                                            |                                                                                                                                     |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| General advice                                                             | Show this material safety data sheet to the doctor in attendance                                                                    |
| If inhaled                                                                 | After inhalation fresh air.                                                                                                         |
| Eye Contact                                                                | After eye contact: rinse out with plenty of water. Remove contact lenses.                                                           |
| Swallowed                                                                  | After swallowing: immediately make victim drink water (two glasses at most). Consult a physician. 4.2 Most import                   |
| Skin Contact                                                               | In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately |
| Inhalation                                                                 | No data available                                                                                                                   |
| Ingestion                                                                  | No data available                                                                                                                   |
| Most important symptoms and effects, both acute and delaye                 | The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11                 |
| Indication of any immediate medical attention and special treatment needed | No data available                                                                                                                   |

## 5. Fire-fighting Measures

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|                                                       |                                                                                                                                                               |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammability                                          | No data available                                                                                                                                             |
| Suitable extinguishing media                          | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                                                       |
| Unsuitable extinguishing media                        | For this substance/mixture no limitations of extinguishing agents are given.                                                                                  |
| Special hazards arising from the substance or mixture | Sodium oxides Not combustible. Ambient fire may liberate hazardous vapours.                                                                                   |
| Further information                                   | Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system |
| Hazardous combustion products                         | No data available                                                                                                                                             |
| Advice for firefighters                               | Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. |
| Protective Equipment                                  | No data available                                                                                                                                             |
| Specific Hazards Arising from the Chemical            | No data available                                                                                                                                             |

## 6. Accidental Release Measures

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|                                                                     |                                                                                                                                                                                                        |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.                       |
| Spillage                                                            | No data available                                                                                                                                                                                      |
| Personal Protection                                                 | No data available                                                                                                                                                                                      |
| Environmental Precaution                                            | Do not let product enter drains. Risk of explosion.                                                                                                                                                    |
| Methods and materials for containment and cleaning                  | Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts. |
| Reference to other sections                                         | For disposal see section 13.                                                                                                                                                                           |

## 7. Handling and Storage

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|                                                             |                                                                                    |
|-------------------------------------------------------------|------------------------------------------------------------------------------------|
| Advice on protection against fire and explosion             | No data available                                                                  |
| Incompatible materials                                      | No data available                                                                  |
| Hygiene measures                                            | No data available                                                                  |
| Advice on safe handling                                     | For precautions see section 2.2.                                                   |
| Conditions for safe storage including any incompatibilities | No data available                                                                  |
| Storage conditions                                          | No metal containers. Tightly closed.                                               |
| Storage class                                               | Storage class (TRGS 510) 8B Non-combustible, corrosive hazardous materials         |
| Specific end use(s)                                         | Apart from the uses mentioned in section 1.2 no other specific uses are stipulated |
| Advice on general occupational hygiene                      | No data available                                                                  |

## 8. Exposure controls and personal protection

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|                     |                                                                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure controls   | Personal protective equipment                                                                                                                |
| Engineering Control | No data available                                                                                                                            |
| Eye/face protection | Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses |
| Body Protection     | Protective clothing.                                                                                                                         |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin protection          | Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario. |
| Respiratory protection   | required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Other Protection Measure | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## 9. Physical and chemical properties

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|                                              |                     |
|----------------------------------------------|---------------------|
| Physical state                               | Liquid              |
| Colour                                       | Colorless           |
| Odour                                        | No data available   |
| Odor Threshold                               | No data available   |
| pH                                           | 14,0                |
| Melting Point                                | -12 - 10 °C         |
| Boiling Point                                | 105 - 140 °C        |
| Flash Point                                  | No data available   |
| Evaporation Rate                             | No data available   |
| Flammability (solid, gas)                    | No data available   |
| Explosive limits                             | No data Available   |
| Upper/lower flammability or explosive limits | No data available   |
| Autoignition temperature                     | No data available   |
| Decomposition temperature                    | No data available   |
| Vapour pressure                              | 24 hPa at 20 °C     |
| Viscosity                                    | No data available   |
| Density                                      | 1,515 g/mL at 25 °C |
| Relative Density                             | No data available   |
| Specific Gravity                             | No data available   |
| Partition coefficient                        | No data available   |

|                          |                   |
|--------------------------|-------------------|
| Explosive properties     | No data available |
| Solubility               | No data available |
| Ignition temperature     | No data available |
| Particle characteristics | No data available |

## 10. Stability and reactivity

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|                                    |                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------|
| Reactivity                         | No data available                                                                                       |
| Chemical stability                 | The product is chemically stable under standard ambient conditions (room temperature)                   |
| Possibility of hazardous reactions | No data available                                                                                       |
| Conditions to avoid                | No data available                                                                                       |
| Incompatible materials             | Water, acids, Organic materials, Chlorinated solvents, Aluminum, Phosphorus, Tin/tin oxides, ZincMetals |
| Hazardous decomposition products   | In the event of fire: see section 5                                                                     |

## 11. Toxicological information

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|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity                                   | Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Skin corrosion/irritation                        | Skin - Rabbit Result: Causes burns. Remarks: (Regulation (EC) No 1272/2008, Annex VI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Serious eye damage/irritation                    | Eyes - Rabbit Result: Causes serious eye damage. (OECD Test Guideline 405) Remarks: (Regulation (EC) No 1272/2008, Annex VI) Remarks: Causes serious eye damage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Respiratory or skin sensitization                | Patch test: - In vitro study Result: negative Remarks: (ECHA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Carcinogenicity                                  | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Germ cell mutagenicity                           | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Reproductive toxicity                            | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Specific target organ toxicity - single exposure | Acute oral toxicity - If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Acute inhalation toxicity - burns of mucous membranes, Cough, Shortness of breath, Possible damages:, damage of respiratory tract                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Additional Information                           | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice. |

## 12. Ecological information

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|                                                     |                                                                                                                                                                                                                                                            |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Persistence and degradability                       | The methods for determining the biological degradability are not applicable to inorganic substances.                                                                                                                                                       |
| Toxicity to fish                                    | LC50 - Gambusia affinis (Mosquito fish) - 125 mg/l - 96 h Remarks: (ECOTOX Database)                                                                                                                                                                       |
| Toxicity to daphnia and other aquatic invertebrates | EC50 - Ceriodaphnia (water flea) - 40,4 mg/l - 48 h Remarks: (ECHA)                                                                                                                                                                                        |
| Toxicity                                            | No data available                                                                                                                                                                                                                                          |
| Toxicity to bacteria                                | EC50 - Photobacterium phosphoreum - 22 mg/l - 15 min Remarks: (External MSDS)                                                                                                                                                                              |
| Toxicity to algae                                   | No data available                                                                                                                                                                                                                                          |
| Products Biodegradation                             | No data available                                                                                                                                                                                                                                          |
| Mobility in soil                                    | No data available                                                                                                                                                                                                                                          |
| Results of PBT and vPvB assessment                  | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.                                                         |
| Endocrine disrupting properties                     | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher |
| Other adverse effects                               | No data available                                                                                                                                                                                                                                          |

## 13. Disposal considerations

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|                        |                   |
|------------------------|-------------------|
| Product                | No data available |
| Contaminated packaging | No data available |
| Waste treatment Method | No data available |

## 14. Transport information

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|                              |                                   |                                |                                |
|------------------------------|-----------------------------------|--------------------------------|--------------------------------|
| UN number                    | ADR/RID:1824                      | IMDG:1824                      | IATA:1824                      |
| UN proper shipping name      | ADR/RID:SODIUM HYDROXIDE SOLUTION | IMDG:SODIUM HYDROXIDE SOLUTION | IATA:SODIUM HYDROXIDE SOLUTION |
| Transport hazard class(es)   | ADR/RID:8                         | IMDG:8                         | IATA:8                         |
| Packaging group              | ADR/RID:II                        | IMDG:II                        | IATA:II                        |
| Environmental hazards        | ADR/RID:No                        | IMDG:No                        | IATA:No                        |
| Special precautions for user | Tunnel restriction code (E)       |                                |                                |
| Further information          | No data available                 |                                |                                |

## 15. Regulatory information

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|                                                                                                |                                                                                                  |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Safety, health and environmental regulations/legislation specific for the substance or mixture | This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. |
| Other regulations                                                                              | Take note of Dir 94/33/EC on the protection of young people at workk.                            |
| Chemical Safety Assessment                                                                     | A Chemical Safety Assessment was not carried out for this substance.                             |

## 16. Other information

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|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other Information | <p>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 we 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.</p> <p>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.</p> |
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