



# RXSOL

VARANASI CHEMICAL | RX MARINE INTERNATIONAL

## RXSOL-19-1463-210

Tri Ethylene Glycol Commercial

### Material Safety Data Sheet (MSDS)

#### 1. Product and Company Identification

[www.rxmarine.com](http://www.rxmarine.com)

|              |                             |
|--------------|-----------------------------|
| Product Name | Sodium Hydroxide Food Grade |
| Part Number  | RXSOL-19-1634-025           |

#### Company Details:

RX MARINE INTERNATIONAL

105, A wing , BSEL , TECH PARK.

VASHI ,NEW BOMBAY 400703 INDIA

|         |                                                        |
|---------|--------------------------------------------------------|
| Phone   | +91 22 65113333 / 5555 / 9999                          |
| Fax     | +91 22 2781 1318 ::::AOH :0091 9821214367              |
| Email   | <a href="mailto:123@rxmarine.com">123@rxmarine.com</a> |
| Website | <a href="http://www.rxmarine.com">www.rxmarine.com</a> |

#### 2. Composition / Information on ingredients

[www.rxmarine.com](http://www.rxmarine.com)

| Name of Substance | Cas Number | EC Number | Molecular Formula | Molar Mass   |
|-------------------|------------|-----------|-------------------|--------------|
| Sodium Hydroxide  | 7697-37-2  | 215-185-5 | NaOH              | 33.997 g/mol |

#### 3. Hazards Identification

[www.rxmarine.com](http://www.rxmarine.com)

|                                       |                                                                                                                                                                                                                                                                                                          |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal Word                           | Danger                                                                                                                                                                                                                                                                                                   |
| Hazard Statements                     | H314 Causes severe skin burns and eye damage.<br>H402 Harmful to aquatic life.                                                                                                                                                                                                                           |
| Precautionary statements - prevention | P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.<br>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 Immediately call a POISON CENTER or doctor/ physician. |

|                          |                                                                                                                                                                                                                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Potential Health Effects | <p>Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.</p> <p>Skin: May be harmful if absorbed through skin. Causes skin burns.</p> <p>Eyes: Causes eye burns. Causes severe eye burns.</p> <p>Ingestion: May be harmful if swallowed.</p> |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 4. First Aid Measures

[www.rxmarine.com](http://www.rxmarine.com)

|              |                                                                                                                                                                                                                                                                                                                       |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Note | Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.                                                                                                                                                                                                             |
| 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:  | Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket 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                                                                                                                                                                                                                                         |

## 5. Fire-fighting Measures

[www.rxmarine.com](http://www.rxmarine.com)

|                               |                                                                                                                                                                                                                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammability                  | Non-flammable.                                                                                                                                                                                                                                                                                   |
| Flash Point                   | Not applicable.                                                                                                                                                                                                                                                                                  |
| Suitable extinguishing media  | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                                                                                                                                                                                                                         |
| Hazardous combustion products | Hazardous decomposition products formed under fire conditions. - Sodium oxides                                                                                                                                                                                                                   |
| Protective Equipment          | Wear self contained breathing apparatus for fire fighting if necessary.                                                                                                                                                                                                                          |
| Advice for firefighters       | Thermal decomposition can lead to release of irritating gases and vapors. Water reactive. Corrosive Material. Causes severe burns by all exposure routes. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |

## 6. Accidental Release Measures

[www.rxmarine.com](http://www.rxmarine.com)

|                          |                                                                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Small Spillage           | Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid. |
| Personal Protection      | Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.                               |
| Environmental Precaution | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.                               |

|                                                    |                                                                                                                            |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Methods and materials for containment and cleaning | Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|

## 7. Handling and Storage

www.rxmarine.com

|                                        |                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling                               | Use only under a chemical fume hood. Wear personal protective equipment. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing.                                                                                                                                                                                        |
| Storage                                | Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic. Deliquescent.                                                                                                                                                                                                                                               |
| Advice on general occupational hygiene | Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents, metals, acids, alkalis, moisture |

## 8. Exposure controls and personal protection

www.rxmarine.com

|                          |                                                                                                                                                                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engineering Controls:    | Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. |
| Personal Protection      | Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.                                                                                                                                              |
| Exposure Limits:         | STEL: 2 (mg/m <sup>3</sup> ) from ACGIH (TLV) [United States] TWA: 2 CEIL: 2 (mg/m <sup>3</sup> ) from OSHA (PEL) [United States] CEIL: 2 (mg/ m <sup>3</sup> ) from NIOSH Consult local authorities for acceptable exposure limits.                                            |
| Other Protection Measure | Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.          |



Gloves



Suit

## 9. Physical and chemical properties

www.rxmarine.com

|                |                          |
|----------------|--------------------------|
| Form           | Solid                    |
| Colour         | White                    |
| Odour          | Odourless                |
| Odor Threshold | No information available |
| pH             | 14 (5% Solution)         |

|                        |                   |
|------------------------|-------------------|
| Boiling Point          | 1388°C (2530.4°F) |
| Melting Point          | 323°C (613.4°F)   |
| Critical Temperature   | Not Available     |
| Explosive limits       | Not Determine     |
| Vapour pressure        | Not Applicable    |
| Vapour Density         | Not DAvailable    |
| Specific Gravity       | 2.13              |
| Solubility             | Soluble in Water  |
| loncity in Water       | Not Available     |
| Explosive properties   | None              |
| Water/Oil Dist. Coeff. | Not available.    |

## 10. Stability and reactivity

[www.rxmarine.com](http://www.rxmarine.com)

|                               |                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------|
| Recativity                    | None known, based on information available                                                 |
| Stability                     | Product is stable. Water reactive. Hygroscopic.                                            |
| Conditions to avoid           | Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water.  |
| Incompatible materials        | Water, Metals, Acids                                                                       |
| Hazardous combustion products | Carbon monoxide (CO), Carbon dioxide (CO2), Sodium oxides                                  |
| Hazardous Polymerization      | Hazardous polymerization does not occur. Hazardous Reactions None under normal processing. |

## 11. Toxicological information

[www.rxmarine.com](http://www.rxmarine.com)

|                                       |                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity                        | Oral LD50 : no data available<br>Inhalation LC50 : no data available<br>Dermal LD50 :no data available                                                                           |
| Skin corrosion/irritation             | No Data Available                                                                                                                                                                |
| Serious eye damage/eye irritation     | Causes serious eye damage.                                                                                                                                                       |
| Respiratory or skin sensitisation     | No Information Available                                                                                                                                                         |
| Specific target organ toxicity (STOT) | Extremely hazardous in case of inhalation (lung corrosive). Very hazardous in case of skin contact (corrosive, irritant, permeator), of eye contact (corrosive), of ingestion, . |
| Aspiration hazard                     | No information available                                                                                                                                                         |
| Other information                     | Corrosive to the respiratory tract                                                                                                                                               |

## 12. Ecological information

[www.rxmarine.com](http://www.rxmarine.com)

|                                    |                                          |
|------------------------------------|------------------------------------------|
| Ecotoxicity                        | Do not empty into drains.                |
| Process of degradability           | Causes severe skin burns and eye damage. |
| Bioaccumulative potential          | No Data Available                        |
| Mobility in soil                   | No Information available                 |
| Results of PBT and vPvB assessment | No Information available                 |
| Other adverse effects              | No Information available                 |

### 13. Disposal considerations

[www.rxmarine.com](http://www.rxmarine.com)

|                                      |                                                                                                                                                                                                                                                                |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste Disposal 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 |
| Sewage disposal-relevant information | Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.                                                                                                                                                  |

### 14. Transport information

[www.rxmarine.com](http://www.rxmarine.com)

#### DOT

|                                       |                        |
|---------------------------------------|------------------------|
| UN Number                             | 1823                   |
| Proper shipping name                  | Sodium Hydroxide       |
| Particulars in the transport document | Sodium Hydroxide Solid |
| Class                                 | 8                      |
| Packing group                         | II                     |

#### International Maritime Dangerous Goods Code (IMDG)

|                                       |                        |
|---------------------------------------|------------------------|
| UN Number                             | 1823                   |
| Proper shipping name                  | Sodium Hydroxide       |
| Particulars in the transport document | Sodium Hydroxide Solid |
| Class                                 | 8                      |
| Packing group                         | II                     |

#### International Civil Aviation Organization (ICAO-IATA/DGR)

|                                       |                        |
|---------------------------------------|------------------------|
| UN Number                             | 1823                   |
| Proper shipping name                  | Sodium Hydroxide       |
| Particulars in the transport document | Sodium Hydroxide Solid |

|               |    |
|---------------|----|
| Class         | 8  |
| Packing group | II |

## 15. Regulatory information

[www.rxmarine.com](http://www.rxmarine.com)

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USA Fedral and State Regulation | Illinois toxic substances disclosure to employee act: Sodium hydroxide Illinois chemical safety act: Sodium hydroxide New York release reporting list: Sodium hydroxide Rhode Island RTK hazardous substances: Sodium hydroxide Pennsylvania RTK: Sodium hydroxide Minnesota: Sodium hydroxide Massachusetts RTK: Sodium hydroxide New Jersey: Sodium hydroxide Louisiana spill reporting: Sodium hydroxide California Director's List of Hazardous Substances: Sodium hydroxide TSCA 8(b) |
| Other Regulation                | OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.                                                                                                                                                                                                                                                                                                           |
| Chemical Safety Assessment      | No Chemical Safety Assessment has been carried out for this substance.                                                                                                                                                                                                                                                                                                                                                                                                                     |

## 16. Other information

[www.rxmarine.com](http://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 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.

This Safety Data Sheet is provided by RXSOL. For the most current version of this document, please visit [varanasichemical.com](http://varanasichemical.com). This document is prepared in accordance with GHS / OSHA HazCom standards. The information contained herein is believed to be accurate but does not purport to be all-inclusive. It is the responsibility of the user to determine the suitability of this information for their application.