



# RXSOL

VARANASI CHEMICAL | RX MARINE INTERNATIONAL

**RXSOL-67-2227-050**

Sodium Lignosulfonate

## Material Safety Data Sheet (MSDS)

### 1. Product and Company Identification

|              |                       |
|--------------|-----------------------|
| Product Name | Sodium Lignosulfonate |
| Part Number  | RXSOL-67-2227-050     |

Company Details:....

RX MARINE INTERNATIONAL  
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|---------|----------------------------------------------------------|
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### 2. Composition / informationon ingredients

#### Substances

|         |           |
|---------|-----------|
| CAS-No. | 8061-51-6 |
|---------|-----------|

No components need to be disclosed according to the applicable regulations.

### 3. Hazards Identification

|                                            |                                                                                                                                                                                                    |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification of the substance or mixture | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.                                                                                                                    |
| Label elements                             | Not a hazardous substance or mixture.                                                                                                                                                              |
| 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. |

### 4. First Aid Measures

#### Description of first aid measures

|                                                                                   |                                                                                                                     |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>If inhaled</b>                                                                 | If breathed in, move person into fresh air. If not breathing, give artificial respiration.                          |
| <b>In case of skin contact</b>                                                    | Wash off with soap and plenty of water.                                                                             |
| <b>In case of eye contact</b>                                                     | Flush eyes with water as a precaution.                                                                              |
| <b>If swallowed</b>                                                               | Never give anything by mouth to an unconscious person. Rinse mouth with water                                       |
| <b>Most important symptoms and effects, both acute and delayed</b>                | The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 |
| <b>Indication of any immediate medical attention and special treatment needed</b> | No data available                                                                                                   |

## 5. Fire-fighting Measures

### Extinguishing media

|                                                              |                                                                          |
|--------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                          | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| <b>Special hazards arising from the substance or mixture</b> | Carbon oxides<br>Sulfur oxides                                           |
| <b>Advice for firefighters</b>                               | Wear self-contained breathing apparatus for firefighting if necessary.   |
| <b>Further information</b>                                   | No data available                                                        |

## 6. Accidental Release Measures

|                                                                     |                                                                                                   |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see section 8. |
| Environmental precautions                                           | No special environmental precautions required.                                                    |
| Methods and materials for containment and cleaning up               | Sweep up and shovel. Keep in suitable, closed containers for disposal.                            |
| Reference to other sections                                         | For disposal see section 13.                                                                      |

## 7. Handling and Storage

|                                                              |                                                                                        |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Precautions for safe handling                                |                                                                                        |
| Advice on protection against fire and explosion              | Provide appropriate exhaust ventilation at places where dust is formed.                |
| Hygiene measures                                             | General industrial hygiene practice. For precautions see section 2.2.                  |
| Conditions for safe storage, including any incompatibilities |                                                                                        |
| Storage conditions                                           | Store in cool place. Keep container tightly closed in a dry and well-ventilated place. |
| Storage class                                                | Storage class (TRGS 510): 13: Non Combustible Solids                                   |

|                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| Specific end use(s) | Apart from the uses mentioned in section 1.2 no other specific uses are stipulated |
|---------------------|------------------------------------------------------------------------------------|

## 8. Exposure controls and personal protection

### Control parameters

### Ingredients with workplace control parameters

### Exposure controls

### Personal protective equipment

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                                                                                                                                             |
| Skin protection                   | The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.<br>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. |
| Body Protection                   | Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.                                                                                                                                                              |
| Respiratory protection            | Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).                                                                                                                                                                          |
| Control of environmental exposure | No special environmental precautions required.                                                                                                                                                                                                                                                                                                                                                                                                           |

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|                                              |                   |
|----------------------------------------------|-------------------|
| Appearance                                   | Form: solid       |
| Odor                                         | No data available |
| Odor Threshold                               | No data available |
| pH                                           | No data available |
| Melting point/freezing point                 | No data available |
| Initial boiling point and boiling range      | No data available |
| Flammability (solid, gas)                    | No data available |
| Upper/lower flammability or explosive limits | No data available |
| Flash point                                  | No data available |
| Autoignition temperature                     | No data available |
| Decomposition temperature                    | No data available |

|                                        |                                                                                  |
|----------------------------------------|----------------------------------------------------------------------------------|
| pH                                     | No data available                                                                |
| Viscosity                              | Viscosity, kinematic: No data available<br>Viscosity, dynamic: No data available |
| Water solubility                       | 256,084 g/l at 25 °C - OECD Test Guideline 105- completely soluble               |
| Partition coefficient: n-octanol/water | No data available                                                                |
| Vapor pressure                         | No data available                                                                |
| Density                                | No data available                                                                |
| Relative density                       | No data available                                                                |
| Relative vapor density                 | No data available                                                                |
| Particle characteristics               | No data available                                                                |
| Explosive properties                   | No data available                                                                |
| Oxidizing properties                   | None                                                                             |
| Other safety information               | No data available                                                                |

## 10. Stability and reactivity

|                                           |                                              |
|-------------------------------------------|----------------------------------------------|
| <b>Reactivity</b>                         | No data available                            |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions. |
| <b>Possibility of hazardous reactions</b> | No data available                            |
| <b>Conditions to avoid</b>                | No data available                            |
| <b>Incompatible materials</b>             | Strong oxidizing agents                      |
| <b>Hazardous decomposition products</b>   | In the event of fire: see section 5          |

## 11. Toxicological information

### Information on toxicological effects

|                                   |                                                                                                                                                                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity                    | LD50 Oral - Mouse - 6.030 mg/kg<br>Remarks: Behavioral:Somnolence (general depressed activity).<br>Behavioral:Muscle weakness.<br>Behavioral:Coma.<br>(RTECS)<br>Inhalation: No data available<br>Dermal: No data available |
| Skin corrosion/irritation         | No data available                                                                                                                                                                                                           |
| Serious eye damage/eye irritation | No data available                                                                                                                                                                                                           |
| Respiratory or skin sensitization | No data available                                                                                                                                                                                                           |
| Germ cell mutagenicity            | Species: Rat<br>Application Route: Inhalation<br>Remarks: Cytogenetic analysis                                                                                                                                              |
| Carcinogenicity                   | No data available                                                                                                                                                                                                           |
| Reproductive toxicity             | No data available                                                                                                                                                                                                           |

|                                                    |                                                                                                                           |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Specific target organ toxicity - single exposure   | No data available                                                                                                         |
| Specific target organ toxicity - repeated exposure | No data available                                                                                                         |
| Aspiration hazard                                  | No data available                                                                                                         |
| Additional Information                             | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |

## 12. Ecological information

|                                    |                                                                                                                                                                                                    |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity                           | Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 7.300 mg/l - 48 h<br>Remarks: (ECOTOX Database)                                                                                      |
| Persistence and degradability      | No data available                                                                                                                                                                                  |
| Bioaccumulative potential          | 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. |
| Other adverse effects              | No data available                                                                                                                                                                                  |

## 13. Disposal considerations

|                        |                                                                            |
|------------------------|----------------------------------------------------------------------------|
| Waste treatment Method |                                                                            |
| Product                | Offer surplus and non-recyclable solutions to a licensed disposal company. |
| Contaminated packaging | Dispose of as unused product.                                              |

## 14. Transport information

|                              |                                                                                        |
|------------------------------|----------------------------------------------------------------------------------------|
| UN number                    | ADR/RID: IMDG: IATA:                                                                   |
| UN proper shipping name      | ADR/RID: Not dangerous goods<br>IMDG: Not dangerous goods<br>IATA: Not dangerous goods |
| Transport hazard class(es)   | ADR/RID: IMDG: IATA:                                                                   |
| Packaging group              | ADR/RID: IMDG: IATA:                                                                   |
| Environmental hazards        | ADR/RID: no IMDG Marine pollutant: no IATA: no                                         |
| Special precautions for user |                                                                                        |
| Further information          | Not classified as dangerous in the meaning of transport regulations.                   |

## 15. Regulatory information

|                                                                                                |                                                                                                  |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 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. |
| Chemical Safety Assessment                                                                     | For this product a chemical safety assessment was not carried out                                |

## 16. Other information

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other Information | 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. |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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