



# RXSOL

VARANASI CHEMICAL | RX MARINE INTERNATIONAL

## RXSOL-19-1473-210

Tri Methyl Acetic Acid

## Material Safety Data Sheet (MSDS)

### 1. Product and Company Identification

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

|              |                            |
|--------------|----------------------------|
| Product Name | RXSOL-19-2550-050          |
| Product Type | Acid Slurry LABSA 96 to 98 |

#### Company Details:

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

**Stock Points:** Mumbai, Kandla, Kolkata, Vizag, Chennai, UAE, Oman, Kenya, Canada

|       |                                                          |
|-------|----------------------------------------------------------|
| Phone | +91 22 65113333 / 5555 / 9999 / 27611360                 |
| Fax   | +91 22 2781 1318 ::::AOH :0091 9821214367                |
| Email | <a href="mailto:mail@rxmarine.com">mail@rxmarine.com</a> |

### 2. Composition / Information on ingredients

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| Contains                     | CAS No.                     | Parts | Symbol      | R-Phrase |
|------------------------------|-----------------------------|-------|-------------|----------|
| Dodecylbenzene Sulfonic Acid | 27176-87-0<br>Or 85117-49-3 | >96%  | C corrosive | R 22,34  |
| Sulfuric Acid                | 7664-93-9                   | 0-1%  | C corrosive | R 34     |

### 3. Hazards Identification

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Harmful if swallowed. Causes burns.

**ADVERSE HUMAN HEALTH EFFECTS:** The product is a corrosive substance. Contact With the eye may cause ocular lesions and Contact with wet skin may cause burns. It is seriously irritating to the mucous if swallowed. The product is harmful if ingested.

**ENVIRONMENTAL EFFECTS:** The product is not classified as dangerous to the environment. The user is advised to use anyway good work practice an to avoid contamination of the environment.

**OTHER EFFECTS:** The product is a strong acid which reacts exothermically with bases. Dilution with water produces heat.

### 4. First Aid Measures

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|           |                                                                                                                                                                                                                                |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General   | Immediately remove contaminated clothing. Rinse with water.                                                                                                                                                                    |
| Ingestion | Rinse mouth and provide fresh air. Dilute by drinking water copiously. Contact physician. The product may cause severe irritation of the mouth and oesophagus. If accidentally ingested. Do not induce vomiting.               |
| Skin      | Wash the skin immediately with soap and water. SKIN CONTACT: The product may cause burns. Remove the contaminated clothing. Rinse with plenty of water and Get medical attention if any discomfort continues.call a physician. |
| Eyes      | Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists.                                                                    |

**INHALATION:** The product is not volatile. If under particular conditions such as in the case of fire, fumes or Aerosols are inhaled, remove the patient to a well-ventilated location and call a physician.

**ANNOTATIONS TO A PHYSICIAN:** The product is a high foaming anionic surfactant. If gastric lavage is necessary, then use silicon antifoam (dimethicone).

## 5. Fire-fighting Measures

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|                       |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal Precaution   | Hand and eye protection. Spilled product gives a slippery surface. Precautions to protect                                                                                     |
| Environment           | Do not discharge product into natural waters without pretreatment.                                                                                                            |
| Spill Cleanup Methods | Contain with absorbent material and dispose. Flush area with water for smaller spills. Contain with absorbent material and dispose. Flush area with water for smaller spills. |

**GENERAL INFORMATION:** The product poses little risk of ignition. If it happens to be involved in a fire, keep the tank cooled by means of a water spray in order to avoid decomposition of the product. **SUITABLE**

**EXTINGUISHING:** Water spray, foam, carbon dioxide. **MEDIA**

**NOT SUITABLE EXTINGUISHING:** None in particular. **MEDIA**

**SPECIFIC HAZARDS:** Combustion produces carbon dioxide, carbon monoxide and oxides of Sulphur. When heated to decomposition, toxic fumes of SO<sub>2</sub> and SO<sub>3</sub> are emitted.

**SPECIAL EQUIPMENTS :** For large fires, wear self-contained breathing apparatus.

## 6. Accidental Release Measures

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|                       |                                                                                                                                                                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal Precaution   | Hand and eye protection. Spilled product gives a slippery surface. Precautions to protect. Avoid direct contact with the product. Wear rubber gloves and rubber boots, face shield and keep close by a fire extinguisher.                                  |
| Environment           | Do not discharge product into natural waters without pretreatment. Surround the spill with earth or sand. Contain with absorbent material and dispose.                                                                                                     |
| Spill Cleanup Methods | Contain with absorbent material and dispose. Flush area with water for smaller spills. Contain with absorbent material and dispose. Neutralise the residue of the product with NaOH or with caustic lime. Wash the contaminated area with plenty of water. |

## 7. Handling and Storage

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

|          |                                                                                                                   |
|----------|-------------------------------------------------------------------------------------------------------------------|
| Handling | The usual precautions for handling chemicals should be observed See Section 8 Eyewash bottles should be available |
| Storage  | Keep only in the original container in a cool, well ventilated place (S3/9/49) Protect from frost                 |

**HANDLING:** Avoid contact with the product. While handling the product, wear a protective apron, rubber or PVC gloves and a face shield. Handle the product in well-ventilated areas. Neutralize with the base under controlled conditions.

conditions. Compatible materials are Stainless Steel, Mild Steel, and Plastic Materials. Incompatible with galvanised steel, aluminium and copper alloys.

## 8. Exposure controls and personal protection

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|                      |                                                                                  |
|----------------------|----------------------------------------------------------------------------------|
| Protective equipment | Protective gloves should be used if there is a risk of direct contact or splash. |
| Eye protection       | Wear approved chemical safety goggles where eye exposure is reasonably probable. |

PRECAUTIONARY MEASURES: Installation of an eyewash fountain is recommended. Do not eat, drink onto the workplace. When handling the product use approved protective clothing, rubber or PVC gloves, and a face shield.

PERSONAL PROTECTIVE: Wear safety goggles or a face shield and approved EQUIPMENT protective clothing.

THRESHOLD LIMIT VALUE: Not established.

REQUIREMENTS FOR PERIODIC: Specific measures are not foreseen. HEALTH

## 9. Physical and chemical properties

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

Appearance: Brown, viscous liquid with a penetrating odour.

Viscosity at 60°C ca. 200 cps.

Viscosity at 20°C ca. 1500 - 2000 MPa.s.

S.G. at 20°C 1.07 g/ml ( MASS DENSITY )

Mol. Weight 322 +2

Neutralization # 179 mg KOH/g sulphonic acid

Flash point (°C) >90° (DIN 51758)

pH (1% solution) ca. 1.5 to 2

ODOUR: Of Sulphur.

NOMINAL ACTIVE MATTER CONC. : ~ 90% m/m.

AVERAGE MOLECULAR MASS: ~ 326

SOLUBILITY AT 20 DEGREE C - Water : Soluble - Ethanol: Soluble - Acetone: Not Compatible - Aliphatic

Hydrocarbons: Insoluble

MELTING RANGE: ~ -10 DEGREE C.

BOILING POINT: ~ 315 DEGREE C.

VAPOUR PRESSURE AT 20 C : BELOW 0.15 (0.001 mm Hg)

VAPOUR DENSITY (Air = 1) : Not Applicable to this Product.

FLASHPOINT (PMcc) : 210 DEGREE C.

AUTOIGNITION TEMPERATURE: Not Applicable to this product.

DECOMPOSITION TEMPERATURE : > 100 DEGREE C.

EXPLOSION PROPERTIES: Not pertinent to this product.

OXIDIZING PROPERTIES: Not pertinent to this product.

## 10. Stability and reactivity

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

|                            |                                         |
|----------------------------|-----------------------------------------|
| Reactivity                 | Reacts with alkalis and generates heat. |
| Hazardous decomp. products | No hazardous decomposition products.    |

HAZARDOUS DECOMPOSITION PRODUCTS: In case of overheating, sulphur oxides can be emitted.

CONDITIONS TO AVOID : Do not heat above 90 degree centigrade.

MATERIALS TO AVOID : Neutralization with bases under uncontrolled conditions.

INTENDED USE AND TRANSFORMATION : The product may be neutralized under controlled conditions with the appropriate base to produce the corresponding salt.

## 11. Toxicological information

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

|                 |                                                                                                                                          |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Health warnings | This chemical may cause skin/eye irritation and burns (corrosive). Gas or vapour may irritate respiratory system . Harmful if swallowed. |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------|

POSSIBLE ROUTES OF PENETRATION : Ingestion and contact.

INGESTION : Corrosive substance, harmful for ingestion. Oral acute LD50 : > 500 – 2000 mg/kg.

EYE CONTACT : Severe eye irritant. It may cause irreversible damage to the eyes.

SKIN CONTACT : Contact may cause ulcerations.

SENSITIZATION : Not Sensitizing.

INHALATION : Inhalation is possible only as an aerosol. Strong irritant to respiratory

## 12. Ecological information

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

|                         |                       |
|-------------------------|-----------------------|
| LC-50 value for fish    | 1-5 mg/l              |
| LC-50 value for Daphnia | 15 mg/l               |
| LC-50 value for algae   | 10-300 mg/l           |
| Degradation             | Readily biodegradable |
| Primary biodegradation  | MBAS: 93-97%          |
| Total biodegradation    | Most: 73-84%          |
| Closed bottle           | 55-65%                |
| Sturm                   | 45-76%                |

## 13. Disposal considerations

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|                  |                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------|
| General/cleaning | Must be disposed of by special means, e.g. suitable incineration, in accordance with local regulations. |
|------------------|---------------------------------------------------------------------------------------------------------|

ENVIRONMENTAL DISTRIBUTION : Water is likely to be the main transport medium for the chemical, to estimate its possible environmental distribution.

PRIMARY BIODEGRADABILITY : > 90% (OECD screening test (sodium salt)). The surfactant fulfils the requisite minimum requirements of primary biodegradability.

ABIOTIC DEGRADABILITY : Not available.

ECOTOXITY : 2.49 mg O<sub>2</sub>/mg.

CHEMICAL OXYGEN DEMAND (COD) : Not available.

LOG P o/w : Not applicable, surface active substance.

BCF : Insufficient available information.

Dispose of product in authorised places / methods in observance with the current laws. It may be treated in a

biological waste treatment plant.

## 14. Transport information

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

|            |                                               |
|------------|-----------------------------------------------|
| ADR UN No  | 2586                                          |
| Class No   | 8                                             |
| Item No    | 34c                                           |
| Hazard No  | 80 Corrosive or slightly corrosive substance. |
| IMO UN No  | 2586                                          |
| IMDG class | 8                                             |
| Packing gr | III                                           |
| EmS No     | 8-06                                          |
| MFAG No    | 700                                           |
| IATA UN No | 2586                                          |
| ICAO class | 8                                             |
| Packing gr | III                                           |

UN CLASSIFICATION NUMBER: 2586

NAME OF THE DELIVERING PRODUCT: Linear Alkyl Benzene Sulphonic Acid/LABSA90%

PACKING INSTRUCTION: P001

PACKAGING GROUP: III

CLASS: 8

MARINE POLLUTANT: NO

EMS NUMBER: F-A, S-B

## 15. REGULATORY INFORMATION

### RISK PHRASES

R22 - Harmful if Swallowed

R34 - Causes Burns

### SAFETY ADVICE

S26 - In case of contact with the eyes, rinse immediately with plenty of water and seek medical help. S28 - After contact with skin, wash immediately with plenty of water

S36/37/39 - Wear suitable protective clothing, gloves and eye face protection.

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