



# RXSOL

VARANASI CHEMICAL | RX MARINE INTERNATIONAL

**RXSOL-37-6170-001**

NICKEL Cathode

## Material Safety Data Sheet (MSDS)

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

### 1. Product and Company Identification

|              |               |
|--------------|---------------|
| Product Name | RXSOL-19-1197 |
| Product Type | Glycerine     |

#### Company Details:

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

|         |                                                          |
|---------|----------------------------------------------------------|
| Phone   | +91 22 65113333 / 5555 / 9999 / 27815540                 |
| Fax     | +91 22 2781 1318 ::::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>   |

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

### 2. Composition / Information on ingredients

| Chemical Name | CAS Number | EC Number |
|---------------|------------|-----------|
| glycerol      | 56-81-5    | 200-289-5 |

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### 3. Hazards Identification

Hazard description: Not applicable.

Information concerning particular hazards for human and environment: Not applicable.

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### 4. First Aid Measures

|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| General information | No special measures required.                             |
| After inhalation    | Supply fresh air; consult doctor in case of complaints.   |
| After skin contact  | Generally the product does not irritate the skin.         |
| After eye contact   | Rinse opened eye for several minutes under running water. |
| After swallowing    | If symptoms persist consult doctor.                       |

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### 5. Fire-fighting Measures

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.  
Protective equipment: No special measures required.

## 6. Accidental Release Measures

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Person-related safety precautions: Not required.  
Measures for environmental protection: Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.  
Measures for cleaning/collecting: Dilute with plenty of water.  
Additional information: No dangerous substances are released.

## 7. Handling and Storage

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### Handling:

Information for safe handling:

### Handling:

Information for safe handling: No special requirement  
Information about fire - and explosion protection: No special measures required.

### Storage:

Requirements to be met by storerooms and receptacles: No special requirements.  
Information about storage in one common storage facility: Not required.  
Further information about storage conditions: None.  
Information about fire - and explosion protection: No special measures required.

### Storage:

Requirements to be met by storerooms and receptacles: No special requirements.  
Information about storage in one common storage facility: Not required.  
Further information about storage conditions: None.

## 8. Exposure controls and personal protection

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**Additional information about design of technical facilities:** No further data; see item 7.

| <i>Ingredients with limit values that require monitoring at the workplace:</i> |                                                                                                            |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 56-81-5 glycerine                                                              |                                                                                                            |
| PEL (USA)<br>TLV (USA)<br>WEL (Great Britain)                                  | 15* 5** mg/m <sup>3</sup><br>*total dust **respirable fraction<br>10* ppm<br>*Mist<br>10 mg/m <sup>3</sup> |

**Additional information:** The lists valid during the making were used as basis.

### Personal protective equipment:

**General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Not required.

**Protection of hands:** The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times,

rates of diffusion and the degradation

**Material of gloves:** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed goggles

## 9. Physical and chemical properties

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|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| General Information              |                                               |
| Form                             | Viscous                                       |
| Colour                           | Colourless                                    |
| Odour                            | Pleasant                                      |
| Change in condition              |                                               |
| Melting point/Melting range      | 18.2°C                                        |
| Boiling point/Boiling range      | 290°C                                         |
| Flash point                      | 160°C                                         |
| Ignition temperature             | 400°C                                         |
| Danger of explosion              | Product does not present an explosion hazard. |
| <b>Explosion limits:</b>         |                                               |
| Lower                            | 0.9 Vol %                                     |
| Vapour pressure at 20°C          | <0.1 hPa                                      |
| Density at 20°C                  | 1.26 g/cm <sup>3</sup>                        |
| Solubility in / Miscibility with | Fully miscible.                               |

## 10. Stability and reactivity

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Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions No dangerous reactions known.

Dangerous decomposition products: No dangerous decomposition products known.

## 11. Toxicological information

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|                                                    |      |                   |
|----------------------------------------------------|------|-------------------|
| Acute toxicity:                                    |      |                   |
| <b>LD/LC50 values relevant for classification:</b> |      |                   |
| Oral                                               | LD50 | 12600 mg/kg (rat) |
| Primary irritant effect:                           |      |                   |

|                                                                                                                                                                                                                                                                                                        |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| on the skin                                                                                                                                                                                                                                                                                            | Irritant to skin and mucous membranes. |
| on the eye                                                                                                                                                                                                                                                                                             | No irritating effect.                  |
| Sensitization                                                                                                                                                                                                                                                                                          | No sensitizing effects known.          |
| <b>Additional toxicological information:</b> When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.<br>The substance is not subject to classification according to the latest version of the EU lists. |                                        |

## 12. Ecological information

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**General notes:** Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13. Disposal considerations

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**Product:** Recommendation Smaller quantities can be disposed of with household waste.

**Uncleaned packaging: Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## 14. Transport information

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Land transport ADR/RID (cross-border)

- ADR/RID class: -
- Maritime transport IMDG:
- Marine pollutant: No

## 15. Regulatory information

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**Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The substance is not subject to classification according to EU lists and other sources of literature known to us.

## 16. Other information

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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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