



# RXSOL

VARANASI CHEMICAL | RX MARINE INTERNATIONAL

**RXSOL-19-1538-090**

Oleic acid

## Material Safety Data Sheet (MSDS)

### 1. Product and Company Identification

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

|              |                       |
|--------------|-----------------------|
| Product Name | RXSOL-19-1580-210     |
| Product Type | Vinyl Acetate Monomer |

#### 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>   |

### 2. Composition / Information on ingredients

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

| Chemical Name | CAS Number | EC Number | Index number |
|---------------|------------|-----------|--------------|
| vinyl acetate | 108-05-4   | 203-545-4 | 607-023-00-0 |

### 3. Hazards Identification

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

#### Hazard description:

Information concerning particular hazards for human and environment:

R 11 Highly flammable.

### 4. First Aid Measures

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

|                    |                                                           |
|--------------------|-----------------------------------------------------------|
| 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.                       |

### 5. Fire-fighting Measures

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

**Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

Protective equipment: No special measures required.

**6. Accidental Release Measures**[www.rxmarine.com](http://www.rxmarine.com)

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

**7. Handling and Storage**[www.rxmarine.com](http://www.rxmarine.com)**Handling:****Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

**Storage:**

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Not required.

**Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles

**8. Exposure controls and personal protection**[www.rxmarine.com](http://www.rxmarine.com)

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

| <b>Ingredients with limit values that require monitoring at the workplace:</b> |                                                                                                                                                                      |
|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 108-05-4 vinyl acetate                                                         |                                                                                                                                                                      |
| REL (USA)<br>TLV (USA)                                                         | Short-term value: C 15* mg/m <sup>3</sup> , C 4* ppm<br>*15-min<br>Short-term value: 53 mg/m <sup>3</sup> , 15 ppm<br>Long-term value: 35 mg/m <sup>3</sup> , 10 ppm |

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

**Personal protective equipment:**

**General protective and hygienic measures:** Wash hands before breaks and at the end of work.

**Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**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

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

|                                                |                                                                                             |
|------------------------------------------------|---------------------------------------------------------------------------------------------|
| General Information                            |                                                                                             |
| Form                                           | Fluid                                                                                       |
| Colour                                         | Colourless                                                                                  |
| Odour                                          | Sweetish                                                                                    |
| Change in condition                            |                                                                                             |
| Melting point/Melting range                    | -93.2°C                                                                                     |
| Boiling point/Boiling range                    | 72°C                                                                                        |
| Flash point                                    | -8°C                                                                                        |
| Ignition temperature                           | 425°C                                                                                       |
| Danger of explosion                            | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| <b>Explosion limits:</b>                       |                                                                                             |
| Lower                                          | 2.6 Vol %                                                                                   |
| Upper                                          | 13.4 Vol %                                                                                  |
| Vapour pressure at 20°C                        | 111 hPa                                                                                     |
| Density at 20°C                                | 0.93 g/cm <sup>3</sup>                                                                      |
| Solubility in / Miscibility with water at 20°C | 20 g/l                                                                                      |

## 10. Stability and reactivity

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

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

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

|                                                    |  |
|----------------------------------------------------|--|
| Acute toxicity:                                    |  |
| <b>LD/LC50 values relevant for classification:</b> |  |

|                          |                               |                     |
|--------------------------|-------------------------------|---------------------|
| Oral                     | LD50                          | 2920 mg/kg (rat)    |
| Dermal                   | LC50                          | 2335 mg/kg (rabbit) |
| Primary irritant effect: |                               |                     |
| on the skin              | No irritant effect.           |                     |
| on the eye               | No irritating effect.         |                     |
| Sensitization            | No sensitizing effects known. |                     |

## 12. Ecological information

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

**General notes:** Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

## 13. Disposal considerations

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

### Product:

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

### Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

## 14. Transport information

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

| Land transport ADR/RID (cross-border) |                      |                                |
|---------------------------------------|----------------------|--------------------------------|
|                                       | ADR/RID class        | 3 Flammable liquids.           |
|                                       | Danger code (Kemler) | 339                            |
|                                       | UN-Number            | 1301                           |
|                                       | Packaging group      | II                             |
|                                       | Hazard label         | 3                              |
|                                       | Description of goods | 1301 VINYL ACETATE, STABILIZED |
| Maritime transport IMDG               |                      |                                |
|                                       | IMDG Class           | 3                              |
|                                       | UN Number            | 1307                           |
|                                       | Label                | 3                              |
|                                       | Packaging group      | II                             |
|                                       | EMS Number           | F-E,S-D                        |
|                                       | Marine pollutant     | No                             |
|                                       | Proper shipping name | VINYL ACETATE, STABILIZED      |
| Air transport ICAO-TI and IATA-DGR    |                      |                                |
|                                       | ICAO/IATA Class      | 3                              |
|                                       | UN/ID Number         | 1301                           |

|  |                      |                           |
|--|----------------------|---------------------------|
|  | Label                | 3                         |
|  | Packaging group      | II                        |
|  | Proper shipping name | VINYL ACETATE, STABILIZED |

## 15. Regulatory information

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

### • Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

### • Risk phrases:

11 Highly flammable.

### • Safety phrases:

2 Keep out of the reach of children.

16 Keep away from sources of ignition - No smoking.

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

29 Do not empty into drains.

## 16. Other information

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

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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