

# Material Safety Data Sheet

Methyl Ethyl Ketone (RXSOL-19-1212-210)



## 1. Product and Company Identification

Product Name **RXSOL-19-1212**  
Product Type **METHYL ETHYL KETONE**

### Company Details:

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

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## 2. Composition / information on ingredients

- Chemical characterization:
- CAS No. Description  
78-93-3 butanone
- Identification number(s)
- EINECS Number: 201-159-0
- Index number: 606-002-00-3

## 3. Hazards Identification

- Hazard description:
- Information concerning particular hazards for human and environment:  
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.  
R 11 Highly flammable.  
R 36 Irritating to eyes.  
R 66 Repeated exposure may cause skin dryness or cracking.  
R 67 Vapours may cause drowsiness and dizziness.

## 4. First Aid Measures

|                    |                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------|
| 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. If symptoms persist, consult a doctor. |
| After swallowing   | If symptoms persist consult doctor.                                                              |

## 5. Fire-fighting Measures

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

|                                       |                                                           |
|---------------------------------------|-----------------------------------------------------------|
| Person-related safety precautions     | Wear protective equipment. Keep unprotected persons away. |
| Measures for environmental protection | Do not allow to enter sewers/ surface or ground water.    |
| Measures for cleaning/collecting      | Dilute with plenty of water. Ensure adequate ventilation. |

## 7. Handling and Storage

### Handling

|                                                   |                                                                                   |
|---------------------------------------------------|-----------------------------------------------------------------------------------|
| Information for safe handling                     | No special requirement                                                            |
| 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

- Additional information about design of technical facilities: No further data; see item 7.
- Ingredients with limit values that require monitoring at the workplace: 78-93-3 butanone

|                     |                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------|
| PEL (USA)           | 590 mg/m <sup>3</sup> , 200 ppm                                                                        |
| REL (USA)           | Short-term value: 885 mg/m <sup>3</sup> , 300 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm     |
| TLV (USA)           | Short-term value: 885 mg/m <sup>3</sup> , 300 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm BEI |
| IOELV (EU)          | Short-term value: 900 mg/m <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm     |
| WEL (Great Britain) | Short-term value: 899 mg/m <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm Sk  |

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional information                   | The lists valid during the making were used as basis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Personal protective equipment:           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| General protective and hygienic measures | Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing<br>Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Respiratory protection                   | Not required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Trade name                               | <b>Methyl Ethyl Ketone</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Protection of hands                      | <p>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</p> <ul style="list-style-type: none"> <li>• Material of gloves</li> </ul> <p>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.</p> <ul style="list-style-type: none"> <li>• Penetration time of glove material</li> </ul> <p>The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.</p> <ul style="list-style-type: none"> <li>• Eye protection</li> </ul> |

## 9. Physical and chemical properties

### General Information

|                             |                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------|
| Form                        | Fluid                                                                                      |
| Colour                      | Colourless                                                                                 |
| Odour                       | Pleasant                                                                                   |
| •Change in condition        |                                                                                            |
| Melting point/Melting range | -86.3°C                                                                                    |
| Boiling point/Boiling range | 79-80.5°C                                                                                  |
| Flash point                 | -4°C                                                                                       |
| Ignition temperature        | 514°C                                                                                      |
| Danger of explosion         | Product is not explosive. However, formation of explosive air/vapour mixtures are possible |
| Explosion limits            |                                                                                            |
| Lower                       | 1.8 Vol %                                                                                  |
| Upper                       | 11.5 Vol %                                                                                 |

|                                  |                              |
|----------------------------------|------------------------------|
| Vapour pressure at 20°C          | 105hPa                       |
| Density at 20°                   | 0.804-0.807g/cm <sup>3</sup> |
| Solubility in / Miscibility with |                              |
| Water at 20°C                    | 290g/l                       |
| Viscosity                        |                              |
| Dynamic at 15°                   | 0.423 mPas                   |

## 10. Stability and reactivity

- 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

- Acute toxicity:-  
LD/LC50 values relevant for classification

|        |      |                     |
|--------|------|---------------------|
| Oral   | LD50 | 3300 mg/kg (rat)    |
| Dermal | LD50 | 5000 mg/kg (rabbit) |

Primary irritant effect:

on the skin                      No irritant effect.

on the eye                      Irritating effect.

Sensitization                      No sensitizing effects known.

## 12. Ecological information

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

- 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

|                                         |                                                |
|-----------------------------------------|------------------------------------------------|
| • Land transport ADR/RID (cross-border) |                                                |
| • ADR/RID class                         | 3 Flammable liquids                            |
| • Danger code (Kemler)                  | 33                                             |
| • UN-Number                             | 1193                                           |
| • Packaging group                       | II                                             |
| • Hazard label                          | 3                                              |
| • Description of goods                  | 1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE) |
| • Maritime transport IMDG               |                                                |
| • IMDG Class:                           | 3                                              |
| • UN Number                             | 1193                                           |
| • Label                                 | 3                                              |
| • Packaging group                       | II                                             |
| • EMS Number                            | F-E,S-D                                        |
| • Marine pollutant                      | No                                             |
| • Proper shipping name                  | ETHYL METHYL KETONE (METHYL ETHYL KETONE)      |
| • Air transport ICAO-TI and IATA-DGR    |                                                |
| • ICAO/IATAClass                        | 3                                              |
| • UN/ID Number                          | 1193                                           |
| • Label                                 | 3                                              |
| • Packaging group                       | II                                             |
| • Proper shipping name                  | ETHYL METHYL KETONE (METHYL ETHYL KETONE)      |

## 15. Regulatory information

|                                      |                                                                                                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Labelling according to EU guidelines | The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials. |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------|

Code letter and hazard designation of product:

|              |                                                                                                                                                              |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Risk phrases | 11 Highly flammable.<br>36 Irritating to eyes.<br>66 Repeated exposure may cause skin dryness or cracking.<br>67 Vapours may cause drowsiness and dizziness. |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                |                                                                                                                                             |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Safety phrases | 2 Keep out of the reach of children.<br>9 Keep container in a well-ventilated place.<br>16 Keep away from sources of ignition - No smoking. |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------|

## 16. Other information

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

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