Material Safety Data Sheet

Methyl Ethyl Ketone LR Grade (RXSOL-19-1212-002)

1. Product and Company Identifaction

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

Phone	+91 22 27815541 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon 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	CO2, 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/m³, 200 ppm
REL (USA)	Short-term value: 885 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm
TLV (USA	Short-term value: 885 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm BEI
IOELV (EU)	Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm
WEL (Great Britain)	Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 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 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	**Methyl Ethyl Ketone**
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

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/cm³
• 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. 36 Irritating to eyes. 66 Repeated exposure may cause skin dryness or cracking. 67 Vapours may cause drowsiness and dizziness.
Safety phrases	2 Keep out of the reach of children. 9 Keep container in a well-ventilated place. 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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