Material Safety Data Sheet

Methanol (RXSOL-19-1356-210)

1. Product and Company Identifaction

Product Name	RXSOL-19-1356
Product Type	Methanol

Company Details:

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

Phone	+91 22 65113333 / 5555 / 9999 / 27611360
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2. Composition / informationon ingredients

Chemical Name	CAS Number	EC Number	Index number
methanol	67-56-1	200-659-6	603-001-00-X

3. Hazards Identification

Hazard description:
Information concerning particular hazards for human and environment:
R 11 Highly flammable.
R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R 39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

4. First Aid Measures

General information	Immediately remove any clothing soiled by the product.Remove breathing equipment only after contaminated clothing have been completely removed.In case of irregular breathing or respiratory arrest provide artificial respiration.
After inhalation	Supply fresh air or oxygen; call for doctor.In case of unconsciousness place patient stably in side position for transportation.
After skin contact	Immediately wash with water and soap and rinse thoroughly.
After eye contact	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing	Do not induce vomiting; call for medical help immediately.

5. Fire-fighting Measures

Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
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:
Dilute with plenty of water.
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).
Dispose contaminated material as waste according to item 13.Ensure adequate ventilation.

7. Handling and Storage

Handling:
Information for safe handling: Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
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:

67-56-1 methanol

PEL (USA)	260 mg/m³, 200 ppm Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
REL (USA)	Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI
TLV (USA)	260 mg/m³, 200 ppm Skin
WEL (Great Britain)	Short-term value: 333 mg/m³, 250 ppm Long-term value: 266 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. Store protective clothing separately. Avoid contact with the eyes and skin.
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

General Information

Form	Fluid
Colour	Colourless
Odour	Alcohol-like
Change in condition	
Melting point/Melting range	-98°C
Boiling point/Boiling range	64.7°C
Flash point	11°C
Ignition temperature	455°C
Danger of explosion	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:

Lower	5.5 Vol %
Upper	44 Vol %
Vapour pressure at 20°C	128 hPa
Density at 20°C	0.79 g/cm³
Solubility in / Miscibility with water	Fully miscible.

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	5628 mg/kg (rat)
Inhalative	LC50/4 h	15800 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

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

14. Transport information

Land transport ADR/RID (cross-border)

ADR/RID class	3 Flammable liquids.
Danger code (Kemler)	336
UN-Number	1230
Packaging group	II
Hazard label	3+6.1
Description of goods	1230 METHANOL

Maritime transport IMDG

IMDG Class	3
UN Number	1230
Label	3+6.1
Packaging group	II
EMS Number	F-E,S-D
Marine pollutant	No
Proper shipping name	METHANOL

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class	3
UN/ID Number	1230
Label	3+6.1
Packaging group	II
Proper shipping name	METHANOL

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:
T Toxic
F Highly flammable
• Risk phrases:
11 Highly flammable.
23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
• Safety phrases:
1/2 Keep locked up and out of the reach of children.
7 Keep container tightly closed.
16 Keep away from sources of ignition - No smoking.
36/37 Wear suitable protective clothing and gloves.

16. Other information

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