Material Safety Data Sheet

ETHYLENE GLYCOL DIMETHYL ETHER LR 99% (RXSOL-60-6604-572)

1. Product and Company Identifaction

Product Name	RXSOL-60-6604-572
Product Type	ETHYLENE GLYCOL DIMETHYL ETHER LR 99%
Revised date	

Company Details:

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

Stock Point : Mumbai, Kandla, Chennai, Visakhapatnam, Kolkata, Fujairah, Muscat Barka

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2. Composition / informationon ingredients

Substance / Preparation : 1,2-Dimethoxyethane
CAS No :110-71-4

Substance. Substance name	Contents	CAS No
1,2-Dimethoxyethane :	100 %	110-71-4

Contains no other components or impurities which will influence the classification of the product.

3. Hazards Identification

3.1. Classification of the substance or mixture
Classification EC 67/548 or EC 1999/45
Classification : F; R11 R19 Repr. Cat. 2; R60-61 Xn; R20
Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)
Health hazards : Reproductive toxicity - Fertility - Category 1B - Danger (CLP : Repr. 1B) H360
Reproductive toxicity - Unborn Child - Category 1B - Danger (CLP : Repr. 1B)
H360 Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332
Physical hazards : Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2) H225
3.2. Label elements
Labelling EC 67/548 or EC 1999/45
Symbol(s) : F : Highly f
lammable T : Toxic
R Phrase(s) : R60 : May impair fertility.
R61 : May cause harm to the unborn child.
R11 : Highly flammable.
R19 : May form explosive peroxides.
R20 : Harmful by inhalation.
S Phrase(s) : S53 : Avoid exposure - obtain special instructions before use.
S45 : In case of accident or if you feel unwell, seek medical advice immediately
(show the label when possible).
Labelling Regulation EC 1272/2008 (CLP)
Hazard pictogram

Signal words : Danger
Hazard statements : H225 : Highly flammable liquid and vapour.
H360F : May damage fertility. H332 : Harmful if inhaled.
H360D: May damage the unborn child. Precautionary statements
• General : P201: Obtain special instructions before use.
• Prevention : P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical, ventilating, lighting, …, equipment.
P210: Keep away from heat, sparks, open flames or hot surfaces. – No smoking.
P280: Wear protective gloves, protective clothing, eye protection, face protection.
P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.
P233: Keep container tightly closed.
• Response : P308+P313: If exposed or concerned : get medical advice.
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing.
Rinse skin with water/shower. P370+P378: In case of fire: Use for extinction.
• Storage : P403+P235: Store in well-ventilated place. Keep cool. P405: Store locked up.
• Disposal considerations : P501: Dispose of this material and its container to hazardous
or special waste collection point, in accordance with local, regional, national and/or international regulation.
Special labelling : Restricted to professional users.
(Substances which appear in Part 3 of Annex VI to Regulation
(EC) No 1272/2008)
3.3. Other hazards
Other hazards : The substance does not fulfil the criteria to be identified as
PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

4. First Aid Measures

4.1. Description of first aid measures
Inhalation : Assure fresh air breathing. Allow the victim to rest. Call a POISON CENTER
or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable
for breathing. Skin contact : Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.
Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
Ingestion : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms relating to use : May damage fertility. May damage the unborn child.
Danger of serious damage to health by prolonged exposure through inhalation.
4.3. Indication of any immediate medical attention and special treatment needed
General information : P308+P313: If exposed or concerned : get medical advice.
Never give anything by mouth to an unconscious person. If exposed or
concerned : get medical advice.

5. Fire-fighting Measures

5.1. Extinguishing media
Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.
Surrounding fires : Use water spray or fog for cooling exposed containers.
5.2. Special hazards arising from the substance or mixture
Flammable class : Highly flammable liquid and vapour. May form explosive peroxides.
Hazardous combustion products : Under fire conditions, hazardous fumes will be present.
May form flammable/explosive vapour-air mixture.
5.3. Advice for fire-fighters
Protection against fire : Do not enter fire area without proper protective equipment,
including respiratory protection. Special procedures : Exercise caution when fighting
any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Evacuate area. DO NOT fight fire when fire reaches explosives.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures
For emergency responders : Equip cleanup crew with proper protection.
Ventilate area. Technical measures : Use special care to avoid static electric charges.
Special precautions : Remove ignition sources. No naked lights. No smoking.
Reacts vigorously with strong oxidizers and acids.
For non-emergency personnel : Evacuate unnecessary personnel.
6.2. Environmental precautions
Environmental precautions : Prevent entry to sewers and public waters. Notify
authorities if product enters sewers or public waters.
6.3. Methods and material for containment and cleaning up
Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous
earth as soon as possible. Store away from other materials. Collect spillage.
6.4. Reference to other sections
See section 8. Exposure controls/personal protection

7. Handling and Storage

7.1. Precautions for safe handling

Handling : Wash hands and other exposed areas with mild soap
and water before eat, drink or smoke and when leaving work.
Handle empty containers with care because residual vapours are flammable.
Obtain special instructions before use. Use only outdoors or in a well-ventilated area.
Avoid breathing dust, fume, gas, mist, vapours, spray.
Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.
Proper grounding procedures to avoid static electricity should be followed.
Use explosion-proof electrical, ventilating, lighting, …, equipment. Special precautions : No naked lights. No smoking.
7.2. Conditions for safe storage, including any incompatibilities
Storage : Keep only in the original container in a cool, well ventilated place.
Keep in fireproof place. Keep container tightly closed. Ground/bond container and receiving
equipment. Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight
. Heat sources. Oxidizing agent.
7.3. Specific end use(s)
Specific end use(s) : None.

8. Exposure controls and personal protection

8.1. Exposure controls
Personal protection : Avoid all unnecessary exposure.
• Respiratory protection : In case of insufficient ventilation,
wear suitable respiratory equipment.
• Hand protection : Wear protective gloves.
• Eye protection : Chemical goggles or safety glasses.
• Others : When using, do not eat, drink or smoke.
8.2. Control parameters
Occupational Exposure Limits : No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state at 20 °C : Liquid.
Odour threshold : No data available.
pH value : No data available.
Melting point [°C] : -580C
Decomposition point [°C] : N/A
Critical temperature [°C] : N/A
Auto-ignition temperature [°C] : 2020C
Flammability (solid, gas) : Highly flammable liquid and vapour.
Flammable. Flash point [°C] : -20C
Boiling point [°C] : 82 - 830C
Initial boiling point [°C] : 820C
Final boiling point [°C] : 830C
Evaporation rate : 5
Vapour pressure [20°C] : 64
hPa (@ 20°C) Vapour pressure
mm/Hg : N/A
Vapour density : 3,1
Density [g/cm3] : 0,86
Relative density, gas (air=1) : N/A
Relative density, liquid (water=1) : N/A
Solubility in water [% weight] : Miscible.
Solubility in water : N/A
Log Pow octanol / water at 20°C : No data available.
Solubility : N/A
Viscosity at 40°C [mm2/s] : 1.1
mPas 20 deg C
9.2. Other information
Explosive properties : N/A
May form explosive peroxides.
Explosion limits - upper [%] : N/A
Explosion limits - lower [%] : N/A
Oxidising properties : No data available.

10. Stability and reactivity

10.1. Reactivity
Reactivity : Not established.
10.2. Chemical stability
Chemical stability : Stable under

recommended storage conditions.
10.3. Possibility of hazardous reactions
Hazardous reactions : Not established.
10.4. Conditions to avoid
Conditions to avoid : Direct sunlight.
Extremely high or low temperatures.
Open flame. Heat. Sparks. Open flame.
Direct sunlight. Overheating.
10.5. Incompatible materials
Materials to avoid : Strong acids.
Strong bases. Oxidizing agent.
10.6. Hazardous decomposition products
Hazardous decomposition products : Fumes.
Carbon monoxide. Carbon dioxide. May release flammable gases.

11. Toxicological information

11.1. Information on toxicological effects Acute toxicity
• Inhalation : Harmful if inhaled.
• Dermal : Based on available data, the classification criteria are not met.
• Ingestion : Based on available data, the classification criteria are not met.
Corrosion : Based on available data, the classification criteria are not met.
Irritation : Based on available data, the classification criteria are not met.
Sensitization : Based on available data, the classification criteria are not met.
Mutagenicity : Based on available data, the classification criteria are not met.
Carcinogenicity : Based on available data, the classification criteria are not met.
Toxic for reproduction : May damage fertility. May damage the unborn child.
STOT-single exposure : Based on available data, the classification criteria are not met.
STOT-repeated exposure : Based on available data, the classification criteria are not met.
Aspiration hazard : Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity
Toxicity information : Not established.
12.2. Persistence - degradability
Persistence - degradability : Biodegradable.
12.3. Bioaccumulative potential
Bioaccumulative potential : Not established.
12.4. Mobility in soil
Mobility in soil : Not established.
12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment : The substance
does not fulfil the criteria to be identified as PBT substance
or vPvB substance according to Annex XIII of Regulation REACH.
12.6. Other adverse effects
Environmental precautions : Avoid release to the environment.

13. Disposal considerations

13.1. Waste treatment methods
General : Avoid release to the environment.
Dispose in a safe manner in accordance with
local/national regulations. Hazardous waste due
to potential risk of explosion. Dispose of this material
and its container to hazardous or special waste collection
point, in accordance with local, regional, national and/or international
regulation. Special precautions : Handle empty containers with care because
residual vapours are flammable.

14. Transport information

14.1. Land transport (ADR-RID)
Proper shipping name : 1,2-DIMETHOXYETHANE UN N° : 2252 H.I. nr : 33
ADR - Class : 3
Labelling - Transport : 3 : Flammable liquid.
ADR - Classification code : F1
ADR - Group : II

ADR - Packing instructions : P001 R001
ADR - Limited Quantity : 1 L
ADR - Tunnel code : D/E : Bulk or tank
carriage: Passage forbidden through tunnels of category D and E.
Other carriage: Passage forbidden through tunnels of category E.
14.2. Sea transport (IMDG) [English only]
Proper shipping name : 1,2-DIMETHOXYETHANE
UN N° : 2252
IMO-IMDG - Class or division : 3 : Flammable liquid.
IMO-IMDG - Packing group : II
IMO- IMDG - Packing instructions : P001
IMO-IMDG - Limited quantities : 1 L
IMO-IMDG - Marine pollution : No
EMS-Nr : F-E
S-D
14.3. Air transport (ICAO-IATA) [English only]
Proper shipping name : 1,2-DIMETHOXYETHANE
UN N° : 2252
IATA - Class or division : 3 : Flammable liquid.
IATA - Packing group : II
IATA - Passenger and Cargo Aircraft : ALLOWED -
Passenger and Cargo - Packing : 353
instruction - Passenger and Cargo - Maximum : 5 L
Quantity/Packing IATA - Cargo only : ALLOWED -
Cargo only - Packing instruction : 364 -
Cargo only - Maximum Quantity/ : 60 L
Packing IATA - Limited Quantites : 1 L
ERG-Nr : 3L

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Safety, health and environmental : Ensure all national/local regulations are observed.
regulations/legislation specific for the substance or mixture
REACH Restrictions - Annex XVII : With the exception of those listed below: The components
of this product are not subject to restrictions. Annex XVII
REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.
15.2. Chemical Safety Assessment
Chemical Safety Assessment : It has not been carried out.

16. Other information

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives
67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 Further information : None. In accordance with
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