Material Safety Data Sheet

DI ETHYL ETHER STABILISED LR (RXSOL-60-6604-443)

1. Product and Company Identifaction

Product Name	RXSOL-60-6604-443
Product Type	DIETHYL ETHER (Stabilised)LR
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 : DIETHYL ETHER (Stabilised)
CAS No : 60-29-7
Substance.
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+; R12
R19 Xn; R22, R66, R67 Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)
Health hazards : Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 - Warning (CLP : STOT SE 3) H336
Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302
Physical hazards : Flammable liquids - Category 1 - Danger (CLP : Flam. Liq. 1) H224
3.2. Label elements
Labelling EC 67/548 or EC 1999/45
Symbol(s) : F+ : Extremely flammable
Xn : Harmful
R Phrase(s) : R12 : Extremely flammable.
R19 : May form explosive peroxides.
R22 : Harmful if swallowed.
R66 : Repeated exposure may cause skin dryness or cracking.
R67 : Vapours may cause drowsiness and dizziness.
S Phrase(s) : S9 : Keep container in a well ventilated place.
S16 : Keep away from sources of ignition - No smoking.
S29 : Do not empty into drains.
S33 : Take precautionary measures against static discharges.
Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms
Signal words : Danger
Hazard statements : H224 : Extremely flammable liquid and vapour.
H302 : Harmful if swallowed.
H336 : May cause drowsiness or dizziness.
Precautionary statements
• 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.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
• Response : P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell
. 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+P233: Store in well-ventilated place. Keep container tightly closed.
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.
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 : 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. Call a POISON CENTER or doctor if you feel unwell. Do NOT induce vomiting.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms relating to use : Swallowing a small quantity of this material will result in serious health hazard.May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.
4.3. Indication of any immediate medical attention and special treatment needed
General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible)
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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 : Extremely 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. DO NOT fight fire when fire reaches explosives. Evacuate area

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures
For emergency responders : Equip cleanup crew with proper protection.
Ventilate area. Avoid breathing dust, fume, gas, mist, vapours, spray.
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 : Handle empty containers with care because residual vapours are flammable. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take precautionary measures against static discharge. Use only outdoors or in a well ventilated area.
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. Use only nonsparking tools.
Special precautions : No naked lights. No smoking.
Avoid breathing dust, fume, gas, mist, vapours, spray.
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. Ground/bond container and receiving equipment. Keep container tightly closed.
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.

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Specific end use(s) : None.

8. Exposure controls and personal protection

8.1. Exposure controls
Personal protection : Avoid all unnecessary exposure.
• Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
• 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] : -116 °C
Decomposition point [°C] : N/A
Critical temperature [°C] : N/A
Auto-ignition temperature [°C] : 1600C
Flammability (solid, gas) : Flammable
. Extremely flammable liquid and vapour.
Flash point [°C] : -40 °C
Boiling point [°C] : 34.6 °C
Initial boiling point [°C] : N/A
Final boiling point [°C] : N/A
Evaporation rate : 37,5
Vapour pressure [20°C] : 563 hPa at 20 °C
Vapour pressure mm/Hg : N/A
Vapour density : 2,6
Density [g/cm3] : 0,71
Relative density, gas (air=1) : N/A
Relative density, liquid (water=1) : N/A
Solubility in water [% weight] : 65 g/l at 20 °C
Solubility in water : N/A

Log Pow octanol / water at 20°C : No data available.
Solubility : N/A
Viscosity at 40°C [mm2/s] : N/A
9.2. Other information
Explosive properties : N/A
May form explosive peroxides. Explosion limits - upper [%] : 48%
Explosion limits - lower [%] : 1.80%
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. Sparks. Heat. Overheating. 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 : Based on available data, the classification criteria are not met.
• 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 : Based on available data, the classification criteria are not met.
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
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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 : DIETHYL ETHER (ETHYL ETHER)
UN N° : 1155
H.I. nr : 33
ADR - Class : 3
Labelling - Transport : 3 : Flammable liquid.
ADR - Classification code : F1
ADR - Group : I
ADR - Packing instructions : P001
ADR - Limited Quantity : 0
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 : DIETHYL ETHER (ETHYL ETHER)
UN N° : 1155
IMO-IMDG - Class or division : 3 : Flammable liquid .
IMO-IMDG - Packing group : I
IMO- IMDG - Packing instructions : P001
IMO-IMDG - Limited quantities : None
IMO-IMDG - Marine pollution : No
EMS-Nr : F-E S-D
14.3. Air transport (ICAO-IATA) [English only]
Proper shipping name : DIETHYL ETHER (ETHYL ETHER)
UN N° : 1155
IATA - Class or division : 3 : Flammable liquid
. IATA - Packing group : I
IATA - Passenger and Cargo Aircraft : ALLOWED
- Passenger and Cargo - Packing : 351
instruction
- Passenger and Cargo - Maximum : 1 L
Quantity/Packing
IATA - Cargo only : ALLOWED
- Cargo only - Packing instruction : 361
- Cargo only - Maximum Quantity/ : 30 L
Packing ERG-Nr : 3AH

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 : The components of this product are not subject to restrictions.
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.
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