Material Safety Data Sheet

MONOTHIOGLYCEROL AR 98% (RXSOL-60-6605-010)

1. Product and Company Identifaction

Product Name	RXSOL-60-6605-010
Product Type	MONOTHIOGLYCEROL 98%
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 : MONOTHIOGLYCEROL 98%
CAS No : 96-27-5
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 : T+; R26
Xi; R36/37/38
Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)
Health hazards : Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 - Warning (CLP : STOT SE 3) H335
Acute toxicity, Inhalation - Category 2 - Danger (CLP : Acute Tox. 2) H330
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315
3.2. Label elements
Labelling EC 67/548 or EC 1999/45
Symbol(s) : T+ : Very toxic
Xi : Irritant
R Phrase(s) : R26 : Very toxic by inhalation.
R36/37/38 : Irritating to eyes, respiratory system and skin.
S Phrase(s) : S22 : Do not breathe dust.
S24/25 : Avoid contact with skin and eyes.
S36 : Wear suitable protective clothing.
Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms:
Signal words : Danger
Hazard statements : H330 : Fatal if inhaled.
H319 : Causes serious eye irritation.
H315 : Causes skin irritation.
H335 : May cause respiratory irritation.
Precautionary statements
• Prevention : P284: Wear respiratory protection.
P280: Wear protective gloves, protective clothing, eye protection, face protection.
P271: Use only outdoors or in a well-ventilated area.
P260: Do not breathe dust, fume, gas, mist, vapours, spray.
P264: Wash thoroughly after handling.

• Response : P302+P352: IF ON SKIN : Wash with plenty of soap and water.
P332+P313: If skin irritation occurs : Get medical advice.
P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
P363: Wash contaminated clothing before reuse.
• Storage : P403+P233: Store in well-ventilated place. Keep container tightly closed.
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 : Specific treatment is urgent (see on this label). Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.
Skin contact : Specific treatment (see on this label). Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation occurs : Get medical advice.
Eye contact : Rinse cautiously with water for several minutes. Get medical advice. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists
: 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 : Fatal if inhaled.
Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.
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)

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
Hazardous combustion products : Under fire conditions, hazardous fumes will be present.
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

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures
For emergency responders : Equip cleanup crew with proper protection.
Ventilate area.
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 : Do not breathe dust, fume, gas, mist, vapours, spray.
Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling. Wash thoroughly after handling.
Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.
Special precautions : 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 container tightly closed.
Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.
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 : Wear respiratory protection.
• Hand protection : Wear protective gloves.
• Skin protection : Wear suitable protective clothing.
• 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 : Stench odour Odour threshold : No data available
. pH value : No data available.
Melting point [°C] : No data available.
Decomposition point [°C] : N/A
Critical temperature [°C] : N/A
Auto-ignition temperature [°C] : N/A
Flammability (solid, gas) : N/A
Flash point [°C] : 113 °C
Boiling point [°C] : 118 °C
Initial boiling point [°C] : N/A
Final boiling point [°C] : N/A
Evaporation rate : N/A
Vapour pressure [20°C] : N/A
Vapour pressure mm/Hg : N/A
Vapour density : N/A
Density [g/cm3] : 1,247
Relative density, gas (air=1) : N/A
Relative density, liquid (water=1) : N/A
Solubility in water [% weight] : Slightly soluble in 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
Explosion limits - upper [%] : N/A
Explosion limits - lower [%] : N/A
Oxidising properties : No data availableble
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10. Stability and reactivity

10.1. Reactivity
Reactivity : Highly reactive material.
10.2. Chemical stability
Chemical stability : Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions
Hazardous reactions : Contact with water liberates toxic gas.
10.4. Conditions to avoid
Conditions to avoid : Direct sunlight. Extremely high or low temperatures.
10.5. Incompatible materials
Materials to avoid : Strong acids. Strong bases.
10.6. Hazardous decomposition products
Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

11. Toxicological information

Routes of Entry
: Absorbed through skin. Dermal contact. Eye contact. Ingestion.
Toxicity to Animals
: Acute oral toxicity (LD50): 670 mg/kg [Rat]. Acute dermal toxicity (LD50): 699.3 mg/kg [Rabbit].
Chronic Effects on Humans: Not available.
Other Toxic Effects on Humans:
Hazardous in case of skin contact (irritant, permeator), of inhalation. Slightly hazardous in case of ingestion.
Special Remarks on Toxicity to Animals:
Not available.
Special Remarks on Chronic Effects on Humans:
May affect genetic material (mutagenic). May cause adverse reproductive effects based on animal test data. No human data found
Special Remarks on other Toxic Effects on Humans:
Potential Health Effects:
Skin: Prolonged or repeated exposure may cause severe skin irritation. A single prolonged exposure may result in the material being absorbed in harmul amounts. Prolonged or repeated skin contact which causes the material to be absorbed through the skin may affect the thyroid. Eyes: May cause moderate eye irritation. Corneal injury is unlikely.
Inhalation: Mists may cause irritation of the upper respiratory tract (nose and throat). Symptoms may include burning senstation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Ingestion: Single dose oral toxicity is considered to be low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. May cause nausea and vomiting. May affect behavior/central nervous system (convulsions, ataxia). Prolonged or repeated ingestion may affect thyroid.

12. Ecological information

Ecotoxicity: Not available.
BOD5 and COD: Not available.
Products of Biodegradation
:Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation: Not available.

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.
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 : Hazardous waste due to toxicity

14. Transport information

14.1. Land transport (ADR-RID)
Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S.
UN N° : 2810
H.I. nr : 60
ADR - Class : 6.1
Labelling - Transport : 6.1 : Toxic substances.
ÉL ADR - Classification code : T1
T1 ADR - Group : III
ADR - Packing instructions : P001 R001 LP001
ADR - Limited Quantity : 5 L
ADR - Tunnel code :
E : Passage forbidden through tunnels of category E
14.2. Sea transport (IMDG) [English only]
Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S.
UN N° : 2810
IMO-IMDG - Class or division : 6.1 : Toxic substances.

IMO-IMDG - Packing group : III
IMO- IMDG - Packing instructions : P001 LP01
IMO-IMDG - Limited quantities : 5
L IMO-IMDG - Marine pollution : No
EMS-Nr : F-A S-A
14.3. Air transport (ICAO-IATA) [English only]
Proper shipping name : TOXIC LIQUID, ORGANIC, N.O.S.
UN N° : 2810
IATA - Class or division : 6.1 : Toxic substances.
IATA - Packing group : III
IATA - Passenger and Cargo Aircraft : ALLOWED
- Passenger and Cargo - Packing : 655
instruction
- Passenger and Cargo - Maximum : 60 L
Quantity/Packing
IATA - Cargo only : ALLOWED
- Cargo only - Packing instruction : 663
- Cargo only - Maximum Quantity/ : 220 L
Packing IATA - Limited Quantites : 2 L
ERG-Nr : 6L

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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