# Material Safety Data Sheet

**ETHYL TRI FLUORO ACETATE** (RXSOL-60-6604-569)

## 1. Product and Company Identifaction

| | |
|---|---|
| Product Name | RXSOL-60-6604-569 |
| Product Type | ETHYL TRIFLUORO ACETATE |
| 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 : ETHYL TRIFLUOROACETATE
CAS No :383-63-1
Substance.

| Substance name | Contents | CAS No ETHYL | |
|---|---|---|---|
| TRIFLUOROACETATE : > | 99 % | 383-63-1 | 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
Xn; R22
Xi; R37-41
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, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302
Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315
Physical hazards : Flammable solids - Category 1 - Danger (CLP : Flam. Sol. 1) H228
3.2. Label elements
Labelling EC 67/548 or EC 1999/45
Symbol(s) : F : Highly flammable
Xn : Harmful R Phrase(s) : R11 : Highly flammable
R22 : Harmful if swallowed.
R37 : Irritating to respiratory system.
R38 : Irritating to skin.
R41 : Risk of serious damage to eyes.
S Phrase(s) :
S16 : Keep away from sources of ignition - No smoking.
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
. S36/39 : Wear suitable protective clothing and eye/face protection.
Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms
Signal words : Danger
Hazard statements : H228 : Flammable solid
. H318 : Causes serious eye damage

. H302 : Harmful if swallowed.
H315 : Causes skin irritation.
H335 : May cause respiratory irritation.
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
. P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
• Response : P302+P352: IF ON SKIN : Wash with plenty of soap and water.
P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.
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.
P370+P378: In case of fire: Use for extinction
. • 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 : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
Skin contact : If skin irritation occurs : Get medical advice. Specific treatment (see on this label). Wash with plenty of soap and water. Wash contaminated clothing before reuse.
Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
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. Causes serious eye damage. 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
Flammable class : Flammable solid.
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.
Technical measures : Use special care to avoid static electric charges
. Special precautions : Remove ignition sources. No naked lights. No smoking
. 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 : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials
. 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
. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wash thoroughly after handling
. 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. 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.
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 approved mask.
• 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 threshold : No data available.
pH value : Not applicable.
Melting point [°C] : -78 °C
Decomposition point [°C] : No data available.
Critical temperature [°C] : Not applicable.
Auto-ignition temperature [°C] : No data available
. Flammability (solid, gas) : Flammable solid.
Flash point [°C] : - 1 °C
- closed cup Initial boiling point [°C] : Not applicable.
Final boiling point [°C] : 60 - 62 °C - lit.
Evaporation rate : Not applicable.
Vapour pressure [20°C] : No data available.
Vapour density : No data available.
Density [g/cm3] : 1,194 g/cm3
Relative density, liquid (water=1) : Not applicable.
Solubility in water : No data available.
Log Pow octanol / water at 20°C :
log Pow : 0,535
Viscosity at 40°C [mm2/s] : No data available.

9.2. Other information
Explosive properties : No data available.
Explosion limits - upper [%] : No data available.
Explosion limits - lower [%] : No data available.
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. Overheating. Heat. Sparks.
10.5. Incompatible materials
Materials to avoid : Strong acids. Strong bases.
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 : Harmful if swallowed.
Corrosion : Causes serious eye damage.
Irritation : Causes skin irritation. May cause respiratory irritation.
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.

## 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 : Handle empty containers with care because residual vapours are flammable.

## 14. Transport information

14.1. Land transport (ADR-RID)
Proper shipping name : FLAMMABLE LIQUID, N.O.S. (vapour pressure at 50 °C
more than 110 kPa)
UN N° : 1993
H.I. nr : 33 ADR - Class : 3
Labelling - Transport : 3 : Flammable liquid
. ADR - Classification code : F1
ADR - Group : II
ADR - Packing instructions : P001
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 : FLAMMABLE LIQUID, N.O.S. (vapour pressure at 50 °C
more than 110 kPa)
UN N° : 1993
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-E
14.3. Air transport (ICAO-IATA) [English only]
Proper shipping name : FLAMMABLE LIQUID, N.O.S. (vapour pressure at 50 °C
more than 110 kPa)
UN N° : 1993
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 : 3H

## 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.
In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation
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