

1. Product and Company Identification

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Product Name TRI ETHYLENE GLYCOL
Part Number RXSOL-19-1464-210

Company Details:

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

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2. Composition / Information on ingredients

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| Product name | Cas No | EC No | Weight | Formula |
|--------------------|----------|-----------|--------------|---|
| Triethylene glycol | 112-27-6 | 203-953-2 | 150,17 g/mol | C ₆ H ₁₄ O ₄ |

3. Hazards Identification

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GHS Classification

Not a hazardous substance or mixture.

Precautionary statements

Prevention:

Wash hands thoroughly after handling.

Response:

Get medical advice/ attention if you feel unwell.

Storage:

Store in accordance with local regulations.

Other hazards

None known.

4. First Aid Measures

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In case of eye contact
In case of skin contact

Rinse with plenty of water. Get medical attention if symptoms occur.
Wash off with soap and plenty of water. Get medical attention if

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| If swallowed | symptoms occur. Rinse mouth. Get medical attention if symptoms occur. Contact the Poison's Information Centre (eg Australia 13 1126; New Zealand 0800 764 766). |
| If inhaled | Get medical attention if symptoms occur. |
| Protection of first-aiders | In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required. |
| Notes to physician | Treat symptomatically. |
| Most important symptoms and effects, both acute and delay | See Section 11 for more detailed information on health effects and symptoms. |

5. Fire-fighting Measures

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| Suitable extinguishing media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | None known. |
| Specific hazards during firefighting | Not flammable or combustible. |
| Hazardous combustion products | Decomposition products may include the following materials: Carbon oxides |
| Special Protective Equipment for firefighters | Use personal protective equipment. |
| Specific extinguishing methods | Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

6. Accidental Release Measures

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| Personal precautions, protective equipment and emergency procedures | Refer to protective measures listed in sections 7 and 8. |
| Environmental Precaution | No special environmental precautions required. |
| Methods and materials for containment and cleaning up | Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. |

7. Handling and Storage

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| Advice on safe handling | For personal protection see section 8. Wash hands after handling. |
| Conditions for safe storage | Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers. |
| Suitable material | Keep in properly labelled containers. |
| Unsuitable material | Not determined |

8. Exposure controls and personal protection

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Components with workplace control parameters

Contains no substances with occupational exposure limit values.

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| Engineering measures | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
|----------------------|--|

Personal protective equipment

Eye protection

Hand protection

Skin protection

Respiratory protection

Hygiene measures

Safety glasses

Wear the following personal protective equipment: Nitrile-rubber, Butyl-Rubber and Neoprene gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Wear suitable protective clothing.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If the occupational exposure limit is likely to be exceeded, an approved respirator must be selected and used in accordance with AS/NZS 1715 and AS/NZS 1716.

Wash hands before breaks and immediately after handling the product.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

9. Physical and chemical properties

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Appearance

Colour

Odour

Odor Threshold

pH

Melting point/freezing point

Initial boiling point and boiling range

Flash Point

Evaporation Rate

Flammability (solid, gas)

Upper explosion limit

Lower explosion limit

Vapour pressure

Relative vapour density

Relative density

Density

Water solubility

Solubility in other solvents

Partition coefficient: n- octanol/water

Auto-ignition temperature

Thermal decomposition

Viscosity, dynamic

Viscosity, kinematic

Molecular weight

VOC

Liquid

Clear colourless

Mild

No data available

7.0

No data available

281.1 °C

154 °C, Method: Pensky-Martens closed cup

No data available

No data available

9 V%

0.9 V%

< 0.0133333 hPa, (20 °C),

5.17(Air = 1.0)

1.1100 - 1.1400, (20 °C),

1.1227 g/cm³

Soluble

No data available

No data available

370 °C

No data available

30 - 60 mPa.s (20 °C)

26.4 mm²/s (40 °C)

No data available

No data available

10. Stability and reactivity

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Reactivity

Chemical stability

Possibility of hazardous reactions

Conditions to avoid

No dangerous reaction known under conditions of normal use.

Stable under normal conditions.

No dangerous reaction known under conditions of normal use.

None known.

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| Incompatible materials | No data available |
| Hazardous decomposition products | Decomposition products may include the following materials: Carbon oxides |

11. Toxicological information

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Information on likely routes of exposure

Inhalation, Eye contact, Skin contact

Potential Health Effects

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|------------------|---|
| Eyes | Health injuries are not known or expected under normal use. |
| Skin | Health injuries are not known or expected under normal use. |
| Ingestion | Health injuries are not known or expected under normal use. |
| Inhalation | Health injuries are not known or expected under normal use. |
| Chronic Exposure | Health injuries are not known or expected under normal use. |

Experience with human exposure

| | |
|--------------|--------------------------------|
| Eye contact | No symptoms known or expected. |
| Skin contact | No symptoms known or expected. |
| Ingestion | No symptoms known or expected. |
| Inhalation | No symptoms known or expected. |

Toxicity

Product

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| Acute oral toxicity | LD50 rat: 16,800 - 22,060 mg/kg |
| Acute inhalation toxicity | LC50 rat: > 4.5 mg/l Test atmosphere: dust/mist |
| Acute dermal toxicity | LD50 rabbit: 18,016 mg/kg |
| Skin corrosion/irritation | No data available |
| Serious eye damage/eye irritation | No data available |
| Respiratory or skin sensitization | No data available |
| Carcinogenicity | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| Reproductive effects | No toxicity to reproduction |
| Germ cell mutagenicity | Contains no ingredient listed as a mutagen |
| Teratogenicity | No data available |
| STOT - single exposure | No data available |
| STOT - repeated exposure | No data available |
| Aspiration toxicity | No aspiration toxicity classification |

Human Hazard Characterization

Based on our hazard characterization, the potential human hazard is: Low

12. Ecological information

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Toxicity

Environmental Effects

This product has no known ecotoxicological effects.

Product

Toxicity to fish

No data available

Toxicity to daphnia and other aquatic invertebrates

No data available

Toxicity to algae

No data available

Persistence and degradability

No data available

Mobility

No data available

Bioaccumulative potential

No data available

Other information

No data available

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

Based on our hazard characterization, the potential environmental hazard is: Low

13. Disposal considerations

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Disposal methods

Where possible recycling is preferred to disposal or

incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations

Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport information

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The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport

Proper shipping name

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Air transport (IATA)

Proper shipping name

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Sea transport (IMDG/IMO)

Proper shipping name

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

15. Regulatory information

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|--|--|
| Safety, health and environmental regulations/legislation specific for the substance or mixture | This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. |
| Other regulations | No data available |
| Chemical Safety Assessment | A Chemical Safety Assessment was not carried out for this substance. |

16. Other information

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Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.