# 1. Product and Company Identifaction

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Porduct Name Mono Ethanol Amine Part Number RXSOL-19-1582-230

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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Chemical Name Cas No EC No Whight Formula Ethanolamine 141-43-5 205-483-3 61,08 g/mol C<sub>2</sub>H<sub>7</sub>NO

#### 3. Hazards Identification

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Signal Word Danger

Hazard Statements H302 + H312 + H332 Harmful if swallowed, in contact with skin or if

inhaled. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting

effects.

P273 Avoid release to the environment. P280 Wear protective gloves/ Precautionary statements

protective clothing/ eye protection/ face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No

1272/2008. None

Supplemental Hazard Statements

Other hazards This substance/mixture contains no components considered to be either

persistent, bioaccumulative and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher

# 4. First Aid Measures

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General advice First aiders need to protect themselves. Show this material safety data

sheet to the doctor in attendance

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

After eye contact: rinse out with plenty of water. Immediately call in

Eye Contact

If inhaled

ophthalmologist. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most), avoid Swallowed

vomiting (risk of perforation). Call a physician immediately. Do not

attempt to neutralise.

Skin Contact In case of skin contact: Take off immediately all contaminated clothing.

Rinse skin with water/ shower. Call a physician immediately.

Inhalation No data available Ingestion No data available

Most important symptoms and effects, both acute and delaye The most important known symptoms and effects are described in the

labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment No data available

needed

#### 5. Fire-fighting Measures

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Flammability No data available

Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are

Special hazards arising from the substance or mixture Carbon oxides Nitrogen oxides (NOx) Combustible. Vapors are heavier

than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or

vapours possible in the event of fire.

Further information Remove container from danger zone and cool with water. Suppress

> (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water

system.

No data available Hazardous combustion

products

Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent

skin contact by keeping a safe distance or by wearing suitable protective

clothing.

Protective Equipment No data available Specific Hazards Arising from the Chemical No data available

#### 6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

Spillage No data available

Personal Protection No data available

**Environmental Precaution** Do not let product enter drains.

Methods and materials for Cover drains. Collect, bind, and pump off spills. Observe possible containment and cleaning

material restrictions (see sections 7 and 10). Take up with liquidabsorbent and neutralising material (e.g. Chemizorb® OH?, Merck Art.

No. 101596). Dispose of properly. Clean up affected area.

Reference to other sections For disposal see section 13.

# 7. Handling and Storage

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Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Incompatible materials No data available Hygiene measures Immediately change contaminated clothing. Apply preventive

protection. Wash hands and face after working with substance. For

precautions see section 2.2.

Advice on safe handling Work under hood. Do not inhale substance/mixture. Avoid generation of

vapours/aerosols.

Conditions for safe storage, including any incompatibilities No data available

Storage conditions Tightly closed. hygroscopic Handle and store under inert gas.

Storage class Storage class (TRGS 510): 8A: Combustible, corrosive hazardous

materials

Apart from the uses mentioned in section 1.2 no other specific uses are Specific end use(s)

stipulated

Advice on general occupational hygiene No data available

#### 8. Exposure controls and personal protection

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Exposure controls

pΗ

**Engineering Control** No data available Eye/face protection No data available **Body Protection** No data available

Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper

glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash

and dry hands.

12,1 at 100 g/l at 20 °C

Respiratory protection No data available Other Protection Measure No data available

# 9. Physical and chemical properties

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Physical state liquid Colour colorless Odour amine-like Odor Threshold Not Applicable

10 - 11 °C - lit.

Melting Point

**Boiling Point** 170 °C - lit. 69 - 70 °C at 13 hPa

91 °C at ca.1.013 hPa - Pensky-Martens closed cup - ISO 2719 Flash Point

**Evaporation Rate** Not Applicable Flammability (solid, gas) No data available Explosive limits No Data Available

Upper/lower flammability or explosive limits Upper explosion limit: 17 %(V) Lower explosion limit: 2,5 %(V)

424 °C at 1.013 hPa - ASTM E-659 Autoignition temperature

Decomposition temperature No data available

Vapour pressure 0,5 hPa at 20 °C - (calculated

Viscosity Viscosity, kinematic: 23,5 mm2/s at 20 °C9,8 mm2/s at 40 °C

1,012 g/cm3 at 25 °C - lit. Density

Relative Density No data available Specific Gravity No data available Partition coefficient -2,3 at 25 °C Explosive properties No data available Solubility 1.000 g/l at 20 °C -No information available. Ignition temperature

Particle characteristics No data available

# 10. Stability and reactivity

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Reactivity Forms explosive mixtures with air on intense heating. A range from

approx. 15 Kelvin below the flash point is to be rated as critical.

Chemical stability The product is chemically stable under standard ambient conditions (room

temperature) . Absorbs carbon dioxide (CO2) from air.

Possibility of hazardous reactions No data available

Conditions to avoid Exposure to moisture. Strong heating...

Incompatible materials Strong oxidizing agents, glass

Hazardous decomposition products

In the event of fire: see section 5

# 11. Toxicological information

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Acute toxicity

Oral: No data available Acute toxicity estimate Oral - 10,63 mg/kg
(Calculation method) AOcute toxicity estimation Inhalation - 4 h - 1,25

 $\mbox{mg/l}$  -  $\mbox{vapor}(\mbox{Calculation method})$  Acute toxicity estimate Dermal -  $10{,}63$ 

mg/kg (Calculation method)

Skin corrosion/irritation Skin - Rabbit Result: Corrosive - 4 h (OECD Test Guideline 404)

Serious eye damage/irritation Eyes - Rabbit Result: Corrosive (OECD Test Guideline 405) Remarks:

Causes serious eye damage.

Respiratory or skin sensitization Maximization Test - Guinea pig Result: negative Remarks: (ECHA)

No data available

Carcinogenicity

Germ cell mutagenicity

Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Chromosome aberration test in vitro Test system: rat hepatocytes Metabolic activation: without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster fibroblasts Metabolic activation: without metabolic activation Result: negative Remarks: (ECHA)

inclabolic activation result. liegative remains. (ECTI)

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Additional Information

No data available

# 12. Ecological information

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Persistence and degradability

No data available

Toxicity to fish No data available
Toxicity to daphnia and other aquatic invertebrates No data available

Toxicity No data available
Toxicity to bacteria No data available

Toxicity to algae No data available Products Biodegradation No data available

Mobility in soil No data available

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other adverse effects No data available.

#### 13. Disposal considerations

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Product

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

#### 14. Transport information

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UN number

UN proper shipping name

Transport hazard class(es)

Packaging group

Environmental hazards

Special precautions for user

Further information

ADR/RID: 2491 IMDG: 2491 IATA: 2491

ADR/RID: **ETHANOLAMINE** 

IMDG: **ETHANOLAMINE** 

IATA: ETHANOLAMINE

ADR/RID:8 IMDG: 8 IATA: 8

ADR/RID: II IMDG: II IATA: II

ADR/RID: No IMDG Marine pollutant: No IATA: No

Tunnel restriction code: (E)

No data available

# 15. Regulatory information

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substance or mixture

Other regulations

Chemical Safety Assessment

Safety, health and environmental regulations/legislation specific for the This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

No data available

For this product a chemical safety assessment was not carried out

#### 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 weassume 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 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.

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