

## 1. Product and Company Identification

www.rxmarine.com

Product Name RXSOL-60-6604-570  
Product Type ETHYLAMINE SOLUTION 70%  
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

Phone +91 22 27815541 / 42  
Fax +91 22 2781 1318 :::AOH :0091 9821214367  
Email [mail@rxmarine.com](mailto:mail@rxmarine.com)

## 2. Composition / Information on ingredients

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2.1. Substances : ETHYLAMINE SOLUTION

CAS-No. : 75-04-7

Substance.

Contains no other components or impurities which will influence the classification of the product.

## 3. Hazards Identification

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3.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, H225

Category 2

Skin corrosion/irritation, H314

Category 1A

Specific target organ toxicity ☑ Single exposure, H335

Category 3,

Respiratory tract irritation

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

### 3.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display  
Extra classification(s) to display

Symbol(s) : Xi : Irritation.

Highly flammable

C: Corrosive

R Phrase(s) : R11: Highly flammable.

R35: Cause severe burns.

R37: Irritating to respiratory system.

Hazard pictograms

Signal word: Danger

Hazard statements : H225 - Highly flammable liquid and vapour.

H314 - Causes severe skin burns and eye damage.

H335 - May cause respiratory irritation.

Precautionary statements (CLP) : P210 - Keep away from open flames, sparks. No smoking.

P261 - Avoid breathing dust, fume, gas, spray, vapours.

P280 - Wear protective gloves, protective clothing, face protection, eye protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER/doctor

### 3.3. Other hazards

No additional information available

## 4. First Aid Measures

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### 4.1. Description of first aid measures

First-aid measures general : 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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First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Immediately call a POISON CENTER/doctor.

First-aid measures after 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/doctor.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : May cause respiratory irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. Fire-fighting Measures

[www.rxmarine.com](http://www.rxmarine.com)

#### 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.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.

Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## 6. Accidental Release Measures

www.rxmarine.com

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## 7. Handling and Storage

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### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Use only non-sparking tools. Do not breathe vapours.

Avoid contact during pregnancy/while nursing. Keep away from sources of ignition -

No smoking. Use only outdoors or in a well-ventilated area.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and

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other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Comply with applicable regulations.

Storage conditions : Keep in fireproof place. Keep container tightly closed.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

#### 7.3. Specific end use(s)

No additional information available

## 8. Exposure controls and personal protection

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#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Protective gloves

Eye protection : Chemical goggles or face shield

Skin and body protection : Wear suitable protective clothing

Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

Other information : Do not eat, drink or smoke during use.

## 9. Physical and chemical properties

[www.rxmarine.com](http://www.rxmarine.com)

#### 9.1. Information on basic physical and chemical properties

Odour threshold : No data available

pH : > 14 at 20 °C

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Relative evaporation rate (butylacetate=1) : No data available

Melting point : -74 °C

Freezing point : No data available

Boiling point : 38 °C

Flash point : -26 °C

Auto-ignition temperature : 375 °C

Decomposition temperature : No data available

Flammability (solid, gas) : Flammable

Highly flammable liquid and vapour.

Vapour pressure : 50 mm Hg at 20° C

Relative vapour density at 20 °C : 1.56

Relative density : 0.796

Density : 0.8 g/cm<sup>3</sup>

Solubility : Water: Soluble

Log Pow : -0.27

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : 0.03 - 0.128 vol %

## 9.2. Other information

No additional information available

# 10. Stability and reactivity

[www.rxmarine.com](http://www.rxmarine.com)

## 10.1. Reactivity

No additional information available

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Not established.

## 10.4. Conditions to avoid

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Sparks. Heat. Open flame.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. May release flammable gases.

## 11. Toxicological information

[www.rxmarine.com](http://www.rxmarine.com)

### 11.1. Information on toxicological effects

Acute toxicity: Not classified

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: > 14 at 20 °C

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: > 14 at 20 °C

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

## 12. Ecological information

[www.rxmarine.com](http://www.rxmarine.com)

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

Persistence and degradability Not established.

#### 12.3. Bioaccumulative potential

Log Pow -0.27

Bioaccumulative potential

Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Additional information : Avoid release to the environment.

### 13. Disposal considerations

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#### 13.1. Waste treatment methods

Product/Packaging disposal

Recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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

Ecology - waste materials : Avoid release to the environment.

### 14. Transport information

[www.rxmarine.com](http://www.rxmarine.com)

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR) : 2270

UN-No. (IMDG) : 2270

UN-No. (IATA) : 2270

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UN-No. (ADN) : 2270

UN-No. (RID) : 2270

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ETHYLAMINE, AQUEOUS SOLUTION

Proper Shipping Name (IMDG) : ETHYLAMINE, AQUEOUS SOLUTION

Proper Shipping Name (IATA) : Ethylamine, aqueous solution

Proper Shipping Name (ADN) : ETHYLAMINE, AQUEOUS SOLUTION

Proper Shipping Name (RID) : ETHYLAMINE, AQUEOUS SOLUTION

Transport document description (ADR) : UN 2270 ETHYLAMINE, AQUEOUS SOLUTION, 3 (8), II, (D/E)

Transport document description (IMDG) : UN 2270 ETHYLAMINE, AQUEOUS SOLUTION, 3 (8), II

Transport document description (IATA) : UN 2270 Ethylamine, aqueous solution, 3 (8), II

Transport document description (ADN) : UN 2270 ETHYLAMINE, AQUEOUS SOLUTION, 3 (8), II

Transport document description (RID) : UN 2270 ETHYLAMINE, AQUEOUS SOLUTION, 3 (8), II

14.3. Transport hazard class(es)

ADR- Transport hazard class(es) (ADR) : 3 (8)

Danger labels (ADR) : 3, 8

IMDG - Transport hazard class(es) (IMDG) : 3 (8)

Danger labels (IMDG) : 3, 8

IATA- Transport hazard class(es) (IATA) : 3 (8)

Hazard labels (IATA) : 3, 8

ADN- Transport hazard class(es) (ADN) : 3 (8)

Danger labels (ADN) : 3, 8

RID- Transport hazard class(es) (RID) : 3 (8)

Danger labels (RID) : 3, 8

14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

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Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport- Classification code (ADR) : FC

Limited quantities (ADR) : 11

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T7

Portable tank and bulk container special provisions (ADR) : TP1

Tank code (ADR) : L4BH

Vehicle for tank carriage : FL

Transport category (ADR) : 2

Special provisions for carriage ☒ Operation (ADR) : S2, S20

Hazard identification number (Kemler No.) : 338

Orange plates :

Tunnel restriction code (ADR) : D/E

EAC code : ☒2PE

APP code : A(fl)

Transport by sea- Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP1

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-C

Stowage category (IMDG) : B

Stowage and handling (IMDG) : SW2

Segregation (IMDG) : SG35

MFAG-No : 132

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Air transport- PCA Excepted quantities (IATA) : E2

PCA Limited quantities (IATA) : Y340

PCA limited quantity max net quantity (IATA) : 0.5L

PCA packing instructions (IATA) : 352

PCA max net quantity (IATA) : 1L

CAO packing instructions (IATA) : 363

CAO max net quantity (IATA) : 5L

ERG code (IATA) : 3CH

Inland waterway transport- Classification code (ADN) : FC

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E2

Equipment required (ADN) : PP, EP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 1

Rail transport- Classification code (RID) : FC

Limited quantities (RID) : 1L

Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions (RID) : T7

Portable tank and bulk container special provisions (RID) : TP1

Tank codes for RID tanks (RID) : L4BH

Transport category (RID) : 2

Colis express (express parcels) (RID) : CE7

Hazard identification number (RID) : 338

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## 15. Regulatory information

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

ETHYLAMINE SOLUTION is not on the REACH Candidate List

ETHYLAMINE SOLUTION is not on the REACH Annex XIV List

### 15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 1, low hazard to water (Classification according to AwSV; ID No. 97)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen ☒ Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen ☒

Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen ☒ Ontwikkeling : The substance is not listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## 16. Other information

[www.rxmarine.com](http://www.rxmarine.com)

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.

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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) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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