

1. Product and Company Identification

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Product Name RXSOL-60-6605-754
Product Type TRIBUTYLAMINE FOR SYNTHESIS 99%
Revised date

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Substance / Preparation: TRIBUTYLAMINE 99%

CAS No :102-82-9

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 EC 67/548 or EC 1999/45

Classification : T; R23/24 Xn; R22 Xi; R38 0 002 (INDIA)

Tel: Hazard Class and Category Code(s), Regulation (EC)

No 1272/2008 (CLP) Health hazards : Acute toxicity, dermal H311

Skin irritation Category 2-- Category 3 Danger

(CLP : Ac Warning (CLP : Skin Corr. 2) H315 Acute toxicity,

Inhalation Category 3ute Tox. 3) Danger (CLP : Acute Tox. 3) H331

Acute toxicity, Oral

3.2. Label elements

Labelling Category 4 Warning (CLP : Acute Tox. 4)

H302 EC 67/548 or EC 1999/45

Symbol(s) : T : Toxic R Phrase(s) : R22 : Harmful if swallowed.

R23/24 : Toxic by inhalation and in contact with skin. R38 : Irritating to

skin. S Phrase(s) and seek : S26 : In case of contact with

eyes, rinse immediately with plenty of water

medical advice. S36/37 : Wear suitable protective clothing and gloves

.S45 : In case of accident or if you feel unwell,

seek medical advice immediately (show the label when possible)

.Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms

Signal words: Danger Hazard statements: H311 : Toxic in contact with skin.

H331 : Toxic if inhaled. H302 : Harmful if swallowed.

H315 : Causes skin irritation. Precautionary statements

☒ Prevention: 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.

P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.

P363: Wash contaminated clothing before reuse.

P361: Remove immediately all contaminated clothing.

☒ 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

.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

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4.1. Description of first aid measures

Inhalation: Assure fresh air breathing. Allow the victim to rest.

Specific treatment (see on this label). Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.

Skin contact: Immediately call a POISON CENTER or doctor.

Specific treatment (see on this label). Wash with plenty of soap and water.

Remove/Take off immediately all contaminated clothing. If skin irritation occurs : Get medical advice. Wash contaminated clothing before reuse.

Eye contact: Rinse immediately with plenty of water.

Obtain medical attention if pain, blinking or redness persists.

Ingestion: Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel unwell.

Do NOT induce vomiting. Rinse mouth.

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

Symptoms relating to use: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Danger of serious damage to health by prolonged exposure through inhalation. Causes skin irritation. Swallowing a small quantity of this material will result in serious health hazard.

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

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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

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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

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7.1. Precautions for safe handling

Handling: Use only outdoors or in a well-ventilated area.

Avoid breathing dust, fume, gas, mist, vapours, spray. 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.

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)

8. Exposure controls and personal protection

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8.1. Exposure controlsPersonal

☐ Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

☐ 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 parametersOccupational Exposure Limits

: No data available.protection: Avoid all unnecessary exposure.

9. Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Physical state at 20 °C: Liquid.

Odour threshold: No data available.

pH value: No data available.

Melting point [°C]: -70°C

Decomposition point [°C]: N/A

Critical temperature [°C]: N/A

Auto-ignition temperature [°C]: 210°C

Flammability (solid, gas): N/A

Flash point [°C]: 63°C

Boiling point [°C]: 216.5°C

Initial boiling point [°C]: N/A

Final boiling point [°C]: N/A

Evaporation rate: N/A

Vapour pressure [20°C]: 0.3 mm of Hg (@20°C

Vapour pressure mm/Hg: 0.3 mm of Hg (@ 20°C

Vapour density: 6,38Density [g/cm³]: 0,7782

Relative density, gas (air=1): N/A

Relative density, liquid (water=1): N/A

Solubility in water [% weight]: Sparingly soluble in

Solubility in water: N/A

Log Pow octanol / water at 20°C: No data available.

Solubility: Strong alkalis.

Viscosity at 40°C [mm²/s]: N/A

9.2. Other information

Explosive properties: N/A

Explosion limits-upper [%]: 6%

Explosion limits-lower [%]: 1,40%

Oxidising properties:No data available.

10. Stability and reactivity

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10.1. Reactivity

Reactivity: Not established.

10.2. Chemical stability

Chemical stability: Stable under recommended storage conditions.

10.3. Possibility of hazardous

reactionsHazardous reactions: Not established.

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

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11.1. Information on toxicological effects Acute toxicity

☒ Inhalation: Toxic if inhaled. ☒ Dermal: Toxic in contact with skin

☒ Ingestion: Harmful if swallowed

.Corrosion: Based on available data, the classification criteria are not met

.Irritation: Causes skin 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

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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

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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

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14.1. Land transport (ADR-RID)

Proper shipping name: TRIBUTYLAMINE

UN N°: 2542

H.I. nr: 60

ADR-Class: 6.1

Labelling-Transport: 6.1 : Toxic substances.

ADR-Classification code: T1

ADR-Group: II

ADR-Packing instructions: P001

ADR-Limited Quantity: 100

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: TRIBUTYLAMINE

UN N°: 2542

IMO-IMDG-Class or division: 6.1 : Toxic substances.

IMO-IMDG-Packing group: II

IMO-IMDG-Packing instructions: P001

IMO-IMDG-Limited quantities: 100 ml

IMO-IMDG-Marine pollution: NoEMS-Nr: F-A S-A

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name: TRIBUTYLAMINE

UN N°: 2542

IATA-Class or division: 6.1 : Toxic substances.

IATA-Packing group: II

IATA-Passenger and Cargo Aircraft: ALLOWED-

Passenger and Cargo-Packing: 654

instruction-Passenger and Cargo-Maximum: 5

LQuantity/PackingIATA-Cargo only: ALLOWED-

Cargo only-Packing instruction: 662

-Cargo only-Maximum Quantity/: 60 L

PackingIATA-Limited Quantities: 1 L

ERG-Nr: 6L

15. Regulatory information

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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

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

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