Material Safety Data Sheet

BENZYLAMINE LR 99% (RXSOL-60-6604-060)

1. Product and Company Identifaction

Product Name	RXSOL-60-6604-060
Product Type	BENZYLAMINE 99%
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

2. Composition / informationon ingredients

2.1. Substance: BENZYLAMINE FOR SYNTHESIS
CAS No : 100-46-9
Substance.
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 according to Regulation (EC) No. 1272/2008 [CLP]
Acute toxicity (oral), H302
Category 4
Acute toxicity (dermal), H312
Category 4
Skin corrosion/irritation, H314
Category 1B
Full text of classification categories and H statements : see section 16
Classification according to Directive 67/548/EEC or 1999/45/EC
Adverse physicochemical, human health and environmental effects
No additional information available
3.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Extra labelling to displayExtra classification(s) to display
Symbol(s) : C: Corrosive

R Phrase(s) : R34: Cause burns.
R21/22 : Harmful in contact with skin and if swallowed.
S Phrase(s) : S26. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advise.
S45. In case of accident or if you feel unwell,
seek medical advice immediately (show the label where possible).
S36/37/39 : Wear suitable protective clothing and gloves & eye/face protecting.

Hazard pictograms



Signal word: Danger
Hazard statements : H302+H312 - Harmful if swallowed or in contact with skin
H314 - Causes severe skin burns and eye damage
Precautionary statements : P280 - Wear protective gloves, protective clothing, eye protection, face 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 doctor
2.3. Other hazards
No additional information available.

4. First Aid Measures

4.1. Description of first aid measures
First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. First-aid measures after skin contact : Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Get immediate medical advice/attention. 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 or doctor/physician.
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries : Causes severe skin burns and eye damage.
Symptoms/injuries after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Symptoms/injuries after ingestion : 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
Treat symptomatically.

5. Fire-fighting Measures

5.1. Extinguishing media
Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media : Do not use a heavy water stream.
5.2. Special hazards arising from the substance or mixture
No additional information available
5.3. Advice for firefighters
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection..

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment : Use personal protective equipment as required.
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 : Collect spillage. On land, sweep or shovel into suitable containers.
6.4. Reference to other sections
No additional information available

7. Handling and Storage

7.1. Precautions for safe handling
Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours.
Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures : Do not eat, drink or smoke when using this product.
Wash contaminated clothing before reuse. Wash hands and 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
Storage conditions : Store in a well-ventilated place. Keep container tightly closed.
7.3. Specific end use(s)
No additional information available

8. Exposure controls and personal protection

8.1. Control parameters
No additional information available
8.2. Exposure controls
Hand protection : Protective gloves
Eye protection : Chemical goggles
or face shield Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear respiratory protection

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties
Odour threshold : No data available
pH : 11.4 at 100 g/l at 20 °C
Relative evaporation rate (butylacetate=1) : No data available
Melting point : 10 °C
Freezing point : No data available
Boiling point : 184 - 185 °C
Flash point : 65 °C
Auto-ignition temperature : 405 °C
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : 0.1 kPa (at 20°C)
Relative vapour density at 20 °C : 3.7
Relative density : No data available
Density : 0.981 g/cm³
Solubility : Water: Soluble in water
Log Pow : 1.09
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : 0.007 - 0.082 vol %

9.2. Other information
No additional information available

10. Stability and reactivity

10.1. Reactivity
Thermal decomposition generates : Corrosive vapours.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
No additional information available
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
Thermal decomposition generates : Corrosive vapours

11. Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin.
Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: 11.4 at 100 g/l at 20 °C
Serious eye damage/irritation : Serious eye damage, category 1, implicit
pH: 11.4 at 100 g/l at 20 °C
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified
Potential adverse human health effects and symptoms : Harmful if swallowed.
Harmful in contact with skin.

12. Ecological information

12.1. Toxicity
No additional information available
12.2. Persistence and degradability
No additional information available
12.3. Bioaccumulative potential
Log Pow 1.09
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
No additional information available

13. Disposal considerations

13.1. Waste treatment methods
Product/Packaging disposal recommendations: Dispose of contents/container to ...

14. Transport information

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

14.1. UN number

UN-No. (ADR) : 2735
UN-No. (IMDG) : 2735
UN-No.(IATA) : 2735
UN-No.(ADN) : Not regulated
UN-No. (RID) : Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR) : AMINES, LIQUID, CORROSIVE, N.O.S.
/ POLYAMINES, LIQUID, CORROSIVE, N.O.S.
Proper Shipping Name (IMDG) : AMINES, LIQUID, CORROSIVE, N.O.S.
Proper Shipping Name (IATA) : AMINES, LIQUID, CORROSIVE, N.O.S.
Proper Shipping Name (ADN) : Not regulated
Proper Shipping Name (RID) : Not regulated
Transport document description (ADR) : UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S.
/ POLYAMINES, LIQUID, CORROSIVE, N.O.S., 8, II, (E)
Transport document description (IMDG) : UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., 8, II
Transport document description (IATA) : UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., 8, II

14.3. Transport hazard class(es)

ADR- Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8
IMDG- Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8
IATA- Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8
ADN- Transport hazard class(es) (ADN) : Not regulated
RID- Transport hazard class(es) (RID) : Not regulated

14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : Not regulated
Packing group (RID) : Not regulated

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) : C7
Special provision (ADR) : 274
Limited quantities (ADR) : 1L
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container instructions (ADR) : T11
Portable tank and bulk container special provisions (ADR) : TP1, TP27
Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Hazard identification number (Kemler No.) : 80
Orange plates : Tunnel restriction code (ADR) : E
EAC code : 2X
APP code : B
Transport by sea- Special provision (IMDG) : 274
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T11
Tank special provisions (IMDG) : TP1, TP27
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : A
Segregation (IMDG) : SG35
MFAG-No : 153
Air transport- PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity
(IATA) : 0.5L
PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
Special provision (IATA) : A3
ERG code (IATA) : 8L
Inland waterway transport- Not regulated
Rail transport- Not regulated
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations
No REACH Annex XVII restrictions BENZYLAMINE is not on the REACH Candidate List
BENZYLAMINE is not on the REACH Annex XIV List
15.1.2. National regulations
Germany
AwSV/VwVwS Annex reference : Water hazard class (WGK) 1, slightly hazardous
to water (Classification according to VwVwS, Annex 3; WGK No 2324)
12th Ordinance Implementing the Federal
Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous
Incident Ordinance)
Denmark
Class for fire hazard : Class III-1 Store unit : 50 liter
Classification remarks : Flammable according to the Danish Ministry of Justice;
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 Pregnant/breastfeeding women
working with the product must not be in direct contact with the product
15.2. Chemical safety assessment
No additional information available

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
(CE) Nº 1272/2008 DISCLAIMER OF LIABILITY The information in this SDS was

obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling,storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.