Material Safety Data Sheet

N BUTYLAMINE AR (RXSOL-60-6605-053)

1. Product and Company Identifaction

Product Name	RXSOL-60-6605-053
Product Type	n-BUTYLAMINE AR
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. Substances: n-BUTYLAMINE AR
CAS-No. : 109-73-9
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]
Flammable liquids, H225 Category 2 Acute toxicity (oral), H302
Category 4 Acute toxicity (dermal), H312
Category 4 Acute toxicity (inhal.), H332
Category 4 Skin corrosion/irritation, H314
Category 1A Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
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) : Xi : Irritation Highly flammable
R Phrase(s) : R36/37/38: Irritating to eyes, respiratory system and skin.
R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed.
R11: Highly flammable. S Phrase(s) : S16: Keep away from source of ignition-No smoking.
S26: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advise.
S29: Do not empty into drains.
Hazard pictograms:

Signal word : Danger
Hazard statements : H225 - Highly flammable liquid and vapour.
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
H314 - Causes severe skin burns and eye damage.
Precautionary statements : P210 - Keep away from heat, hot surfaces,
sparks, open flames and other ignition sources. No smoking.
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 POISON CENTER/doctor
3.3. Other hazards

4. First Aid Measures

4.1. Description of first aid measures
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER/doctor. Specific treatment is urgent (see supplemental first aid instruction on this label).
First-aid measures after skin contact : Rinse skin with water/shower.
Take off immediately all contaminated clothing. Immediately call a POISON CENTER/doctor.
Specific measures (see supplemental first aid instruction on this label).
Wash with plenty of water/…. Wash contaminated clothing before reuse.
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.
Specific treatment (see supplemental first aid instruction on this label).
First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting.
Immediately call a POISON CENTER/doctor. Specific treatment (see supplemental first aid instruction on this label).
4.2. Most important symptoms and effects, both acute and delayed
Symptoms/effects : Causes severe skin burns and eye damage. Symptoms/effects after
inhalation : Corrosive to the respiratory tract. Symptoms/effects after
skin contact : Repeated exposure to this material can result in absorption
through skin causing significant health hazard. Harmful in contact with
skin. Symptoms/effects after eye contact : Causes serious eye damage.
Symptoms/effects 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 : dry chemical powder, alcohol-resistant foam,
carbon dioxide (CO2). 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
Protection during firefighting : Do not attempt to take action without suitable protective equipment.

6. Accidental Release Measures

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 : Use personal protective equipment as required.
Emergency procedures : Stop release.
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. Soak up spills with inert solids, such as clay
or diatomaceous earth as soon as possible.
6.4. Reference to other sections
No additional information available

7. Handling and Storage

7.1. Precautions for safe handling
Additional hazards when processed : Handle empty containers with care because
residual vapours are flammable. Precautions for safe
handling : No open flames. No smoking. Use only non-sparking tools.
Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy/while nursing.
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.
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 : Heat sources. Packaging materials : Do not store in corrodable metal.

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

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties
Odour threshold : 0.08
ppm pH : 13
Relative evaporation rate (butylacetate=1) : 7.3
Melting point : -49.1 °C
Freezing point : No data available
Boiling point : 77.1 °C
Flash point : -120 °C
Auto-ignition temperature : 3120 °C
Decomposition temperature : No data available
Flammability (solid, gas) : Extremely
flammable Highly flammable liquid and vapour.
Vapour pressure : 82 mm Hg at 20C
Relative vapour density at 20 °C : 2.5
Relative density : No data available
Density : 0.74 g/cm³
Solubility : Water: Miscible in water
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : 0.017 - 0.098 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
Highly flammable liquid and vapour.
May form flammable/explosive vapour-air mixture.
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
Open flame. Direct sunlight.
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
May release flammable gases. 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.
Inhalation: Harmful if inhaled.
Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: 13 Serious eye damage/irritation : Serious eye damage,
category 1, implicit pH: 13
Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
Additional information : Corrosive to the respiratory tract.
STOT-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
No additional information available
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 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.

14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN
14.1. UN number
UN-No. (ADR) : 1125
UN-No. (IMDG) : 1125
UN-No. (IATA) : 1125
UN-No. (ADN) : 1125
UN-No. (RID) : 1125
14.2. UN proper shipping
name Proper Shipping Name (ADR) : N-BUTYLAMINE Proper Shipping Name
(IMDG) : n-BUTYLAMINE Proper Shipping Name
(IATA) : n-Butylamine Proper Shipping Name
(ADN) : N-BUTYLAMINE Proper Shipping Name
(RID) : n-BUTYLAMINE Transport document description
(ADR) : UN 1125 N-BUTYLAMINE, 3 (8), II, (D/E)
Transport document description (IMDG) : UN 1125 n-BUTYLAMINE, 3 (8), II (-9°C c.c.)
Transport document description (IATA) : UN 1125 n-Butylamine, 3 (8), II
Transport document description (ADN) : UN 1125 N-BUTYLAMINE, 3 (8), II
Transport document description (RID) : UN 1125 n-BUTYLAMINE, 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
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) : 1l
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 : •2WE 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
Flash point (IMDG) : -9°C c.c.
MFAG-No : 132
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) : 3C
Inland waterway transport-
Classification code (ADN) : FC
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Carriage permitted (ADN) : T
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

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations No REACH Annex XVII restrictions n-BUTYLAMINE AR is not on the
REACH Candidate List n-BUTYLAMINE AR 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. 44)

12th Ordinance Implementing the Federal
Immission Control Act - 12.BImSchV : Is not subject of the 12. BlmSchV (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 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.