



MATERIAL SAFETY DATA SHEET

Version Number:- 02

PRODUCT NAME: BENZYLAMINE

CAS Number: 100-46-9

1. IDENTIFICATION:

Product Code : 98279, 91940

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:**Hazard classification****Health hazards**

Acute toxicity : Category 4 (Harmful if swallowed)

Acute toxicity : Category 4 (Harmful in contact with skin)

Skin corrosion : Sub-category 1B (Causes severe skin burns and eye damage)

Serious eye damage : Category 2 (Causes serious eye damage)

Labels elements

Hazard symbol : 

Signal word : Danger

Hazard statement : Harmful if swallowed or in contact with skin.
Causes severe skin burns and eye damage.

Precautionary statement

Prevention : Obtain special instructions before use.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Keep container tightly closed. Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools. Take precautionary measures against static discharge.

Response : IF exposed or concerned: Get medical advice/ attention.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED: Immediately call a poison center or doctor/physician.



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|--|--|
| Storage | : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |
| Disposal | : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |
| Other hazards which do not result in GHS classification | : 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. Ecological information: 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. Toxicological information: 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. Lachrymator. |

3. COMPOSITION/ INFORMATION ON INGRADIENTS:

| Ingredient | CAS Number | Percent | Hazardous |
|-------------------|-------------------|----------------|------------------|
| Benzylamine | 100-46-9 | NLT 99.0% | Yes |

4. FIRST AID MEASURES:

| | |
|---|--|
| General information | : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance. |
| Ingestion | : Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist. |
| Inhalation | : Immediately flush with plenty of water for at least 15 minutes. Get medical attention. |
| Skin contact | : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. |
| Eye contact | : Make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise. |
| If swallowed | : The most important known symptoms and effects are described in the labelling. |
| Most important symptoms/effects, acute and delayed | : No data available. |
| Indication of immediate medical attention and special treatment needed | |



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5. FIRE FIGHTING MEASURES:**General information****Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media : Dry powder or carbon dioxide, foam

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

Specific hazards arising from the chemical : Carbon oxides, Nitrogen oxides (NO_x), 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.

Special protective equipment and precautions for firefighters

Special firefighting procedures : Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Special protective equipment for fire-fighters : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up : Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

Environmental precautions : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities : Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks.



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8. EXPOSURE CONTROLS PERSONAL PROTECTION:**Appropriate engineering****controls** : No data available**Individual protection measures, such as personal protective equipment****General information** : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.**Eye/face protection** : Wear safety glasses with side shields (or goggles).**Hand protection** : Chemical resistant gloves.**Other** : Wear suitable protective clothing.**Respiratory protection** : Recommended Filter type: Filter A-(P2)**Hygiene measures** : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.**9. PHYSICAL AND CHEMICAL PROPERTIES:****Appearance** : Colorless to light yellow liquid.**Odor** : No data available**Solubility** : No data available**Formula** : C_7H_9N **Molecular Weight** : 107.15 g/mol**Density** : 0.981 - 0.982 g/ml**pH** : 11.4 at 25°C**% Volatiles by volume @ 21C (70F)** : 100**Boiling Point** : 184 - 185°C**Melting Point** : 10°C**Flash Point** : 65 °C**Vapor Density** : 0.6 hPa at 20 °C**Vapor Pressure (mm Hg)** : No data available**Evaporation Rate (BuAc=1)** : No data available



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10. STABILITY AND REACTIVITY:

| | | |
|------------------------------------|---|---|
| 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 | : | Material is stable under ambient conditions.. |
| Possibility of hazardous reactions | : | Violent reactions possible with: Strong oxidizing agents, Strong acids, Acid anhydrides, Acid chlorides, ammonium compounds, Aluminum, rubber, various plastics, Zinc, Tin. |
| Conditions to avoid | : | Strong heating |
| Incompatible materials | : | No data available |
| Hazardous decomposition products | : | In the event of fire: see section 5 |

11. TOXICOLOGICAL INFORMATION:

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

| | | |
|---|---|---|
| Oral Product | : | LD 50 Oral - Rat - male - 1.127 mg/kg |
| Dermal Product | : | LD 50 Dermal - Rat - male and female - 1.350 mg/kg |
| Inhalation Product | : | LC 50 Inhalation - Rat - male and female - 3 h - > 0.65 mg/l - vapor |
| Repeated dose toxicity Product | : | No data available. |
| Skin corrosion/irritation Product | : | Skin - Rabbit Result: Causes burns. |
| Serious eye damage/eye irritation Product | : | Eyes - Rabbit Result: Corrosive Remarks: Causes serious eye damage. |
| Respiratory or skin sensitization Product | : | No data available. |
| Carcinogenicity Product | : | No data available. |
| 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: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Test Type: Micronucleus test Test system: Chinese hamster lung cells |



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Metabolic activation: Metabolic activation
Method: OECD Test Guideline 487
Result: negative
Test Type: Micronucleus test
Species: Mouse Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Reproductive toxicity
Product : No data available

Specific target organ
toxicity - single exposure
Product : No data available

Specific target organ
toxicity - repeated
exposure Product : No data available

Aspiration hazard Product : No data available

Other effects : No data available

12. ECOLOGICAL INFORMATION:**Ecotoxicity****Acute hazards to the aquatic environment**

Fish Product : static test LC50 - Leuciscus idus (Golden orfe) - > 100 mg/l - 96 h

Toxicity to daphnia and
other aquatic invertebrates : static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h

Toxicity to algae : static test ErC50 - Desmodesmus subspicatus (green algae) - 50 mg/l - 72 h

Chronic hazards to the aquatic environment

Fish Product : No data available.

Aquatic invertebrates
Product : No data available.

Toxicity to Aquatic Plants
Product: : No data available.

Persistence and degradability

Biodegradation Product : aerobic - Exposure time 14 d
Result: 52 - 75 % - Readily biodegradable.

BOD/COD ratio Product : No data available.

Bioaccumulative potential

Bioconcentration factor
(BCF) Product : No data available.



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Partition coefficient n-octanol / water (log Kow) : No data available.
Product
Mobility in soil : No data available.
Other adverse effects : No data available.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.
Contaminated packaging : Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION:

| | UN No. | UN proper shipping name | Hazard Class(es) | Packaging group | Environmental hazards |
|---------|---------|-------------------------|------------------|-----------------|-----------------------|
| ADR/RID | UN 2735 | Benzylamine | 8 | II | No |
| IMDG | UN 2735 | Benzylamine | 8 | II | No |
| IATA | UN 2735 | Benzylamine | 8 | II | No |

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

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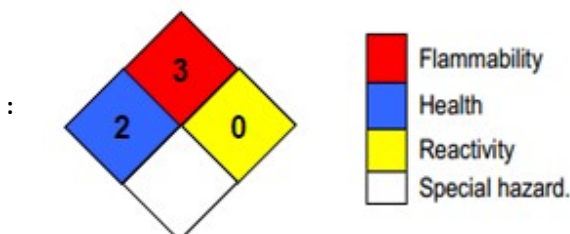
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16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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