SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers
Product name: Benzyamine
CAS-No.: 100-46-9

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet
Company: Central Drug House (P) Ltd
7/28 Vardaan House
New Delhi-10002
INDIA
Telephone: +91 11 49404040
Email: care@cdhfinechemical.com

1.4 Emergency telephone number
Emergency Phone #: +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Skin corrosion (Category 1B), H314
Acute toxicity, Dermal (Category 4), H312
Acute toxicity, Oral (Category 4), H302
For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements
Labelling according Regulation (EC) No 1272/2008
Pictogram

Signal word: Danger
Hazard statement(s):
H302 + H312 Harmful if swallowed or in contact with skin
H314 Causes severe skin burns and eye damage.
Precautionary statement(s)
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements
none

2.3 Other hazards
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. Lachrymator.

SECTION 3: Composition/information on ingredients

3.1 Substances
Synonyms: α-Aminotoluene

Formula: C7H7NH2
Molecular weight: 107.16 g/mol
CAS-No.: 100-46-9
EC-No.: 202-854-1
Index-No.: 612-047-00-X

Hazardous ingredients according to Regulation (EC) No 1272/2008
Component Classification Concentration
Benzylamine
CAS-No. 100-46-9 Skin Corr. 1B; Acute Tox. 4; <= 100%
EC-No. 202-854-1 H314, H312, H302
Index-No. 612-047-00-X

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Nitrogen oxides (NOx)

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Combustible, corrosive hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment

**Eye/face protection**
Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin protection**
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

- **a)** Appearance  
  Form: liquid  
- **b)** Odour  
  No data available  
- **c)** Odour Threshold  
  No data available  
- **d)** pH  
  11.4 at 100 g/l at 20 °C  
- **e)** Melting point/freezing point  
  Melting point/range: 10 °C - lit.  
- **f)** Initial boiling point and boiling range  
  184 - 185 °C - lit.  
- **g)** Flash point  
  65 °C - closed cup  
- **h)** Evaporation rate  
  No data available  
- **i)** Flammability (solid, gas)  
  No data available  
- **j)** Upper/lower flammability or explosive limits  
  Upper explosion limit: 8.2 %(V)  
  Lower explosion limit: 0.7 %(V)  
- **k)** Vapour pressure  
  0.6 mbar at 20 °C  
- **l)** Vapour density  
  No data available  
- **m)** Relative density  
  0.981 g/cm3 at 25 °C  
- **n)** Water solubility  
  soluble  
- **o)** Partition coefficient: n-octanol/water  
  log Pow: 1 at 25 °C  
- **p)** Auto-ignition temperature  
  390 °C  
  at 1,013 hPa  
- **q)** Decomposition temperature  
  No data available
r) Viscosity  No data available
s) Explosive properties  No data available
t) Oxidizing properties  No data available

9.2 Other safety information
Surface tension  64.9 mN/m at 25.1 °C

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male and female - 552 mg/kg(Benzylamine)
(OECD Test Guideline 401)
LC50 Inhalation - Rat - male and female - 3 h - > 0.65 mg/l(Benzylamine)
(OECD Test Guideline 403)
LD50 Dermal - Rat - male and female - 1,350 mg/kg(Benzylamine)
(OECD Test Guideline 402)

Skin corrosion/irritation
Skin - Rabbit(Benzylamine)
Result: Causes burns.
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - Rabbit(Benzylamine)
Result: Corrosive
(OECD Test Guideline 405)

Respiratory or skin sensitisation
No data available(Benzylamine)

Germ cell mutagenicity
Hamster(Benzylamine)
Lungs
Result: negative
OECD Test Guideline 474(Benzylamine)
Mouse - male
Result: negative

Carcinogenicity

In the event of fire: see section 5
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**
No data available (Benzylamine)

**Specific target organ toxicity - single exposure**
No data available (Benzylamine)

**Specific target organ toxicity - repeated exposure**
No data available

**Aspiration hazard**
No data available (Benzylamine)

**Additional Information**
Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level - 150 mg/kg (Benzylamine)
RTECS: Not available

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea (Benzylamine)

**SECTION 12: Ecological information**

12.1 **Toxicity**
Toxicity to fish
flow-through test LC50 - Pimephales promelas (fathead minnow) - 102 mg/l - 96 h (Benzylamine)
Toxicity to daphnia and other aquatic invertebrates
EC50 - Daphnia magna (Water flea) - 60 mg/l - 48 h (Benzylamine)
Toxicity to algae
Growth inhibition EC50 - Desmodesmus subspicatus (green algae) - 50 mg/l - 72 h (Benzylamine)
(OECD Test Guideline 201)

12.2 **Persistence and degradability**
Biodegradability
aerobic - Exposure time 14 d (Benzylamine)
Result: 52 - 75 % - Readily biodegradable
(OECD Test Guideline 301C)

12.3 **Bioaccumulative potential**
No data available

12.4 **Mobility in soil**
No data available (Benzylamine)

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

12.6 **Other adverse effects**
Harmful to aquatic life.

**SECTION 13: Disposal considerations**

13.1 **Waste treatment methods**
Product
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number
ADR/RID: 2735  IMDG: 2735  IATA: 2735

14.2 UN proper shipping name
ADR/RID: AMINES, LIQUID, CORROSIVE, N.O.S. (Benzylamine)
IMDG: AMINES, LIQUID, CORROSIVE, N.O.S. (Benzylamine)
IATA: Amines, liquid, corrosive, n.o.s. (Benzylamine)

14.3 Transport hazard class(es)
ADR/RID: 8  IMDG: 8  IATA: 8

14.4 Packaging group
ADR/RID: II  IMDG: II  IATA: II

14.5 Environmental hazards
ADR/RID: no  IMDG Marine pollutant: no  IATA: no

14.6 Special precautions for user
No data available

SECTION 15: Regulatory information

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

15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H302   Harmful if swallowed.
H302 + H312   Harmful if swallowed or in contact with skin
H312   Harmful in contact with skin.
H314   Causes severe skin burns and eye damage.

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.