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	TITLE : SDS OF BIS(2-CHLOROETHYL)AMINE HYDROCHLORIDE			
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SECTION 01 : Identification of substance and of the company /undertaking

1.1 Product identifiers

Product name : Bis(2-chloroethyl)amine hydrochloride
Product Number : --
Company / Brand : Anshul
REACH No : --
CAS-No. : 821-48-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Anshul Specialty Molecules Pvt.Ltd.
Flexcel Park ,C-wing ,2nd Floor,184-87,S.V.Road,
Near 24 Karat Multiplex, Jogeshwari (West)
Mumbai-400 102 ,INDIA

1.4 Emergency telephone number

Emergency Phone # : +91 98194 90645
+91 88797 10202

SECTION 02 : Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Specific target organ toxicity - single exposure (Category 3), H335


2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram :



Signal word : Warning

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Hazard statement(s)

H315 : Causes skin irritation
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.
:

Precautionary statement(s)

P261 : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
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 information : None

2.3 Other hazards : None

SECTION 03 : Composition / information on ingredients

3.1 Substance

Synonyms : : Bis(2-chloroethyl)amine hydrochloride
Formula : : $C_4H_9Cl_2N \cdot HCl$
Molecular weight : : 178.49 g/mol
CAS-No. : : 821-48-7
EC-No. : : 212-479-5

Component	Classification	Concentration
Bis(2-chloroethyl)amine hydrochloride		


CAS-No 821-48-7 EC-No : 212-479-5	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335	<= 100 %
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SECTION 04 : 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

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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. Take victim immediately to hospital. 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 : Treat symptomatically

SECTION 05: FIREFIGHTING MEASURES

Extinguishing Media


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

5.2 Unsuitable extinguishing media :

5.3 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NO_x)

5.4 General Information As in any fire , wear a self - contained breathing apparatus with full face piece operated in a positive pressure mode. NIOSH (approved or equivalent)

5.5 Advice for fire-fighters : Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the

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surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so.

5.6 Further information : No Data available


SECTION 06: Accidental release measures

- 6.1 Personal precautions** : Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. 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** : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections** : For disposal see section 13.

SECTION 07: Handling and storage

- 7.1 Precautions for safe handling**
- Advice on safe handling : Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
- Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday
- 7.2 Conditions for safe storage, including any incompatibilities**
- Storage conditions : Keep container tightly closed. Store at ambient temperature
- 7.3 Specific end use(s)** : Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 08: Exposure controls / personal protection

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8.1 Control parameters : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep air borne concentrations low

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. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product

Personal Protective Equipment

Eyes /Face Protection : Wear Chemical Safety Goggles.
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).




Hand protection : Wear appropriate protective gloves to prevent skin exposure.
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. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.



Body Protection : Wear a chemical apron. 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 a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of 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.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties


- | | | | |
|----|---|---|---|
| a) | Appearance | : | Form: powder Colour: white to off white |
| b) | Odour | : | No data available |
| c) | Odour Threshold | : | No data available |
| d) | pH | : | No data available |
| e) | Melting point/ freezing point | : | 212 - 214 °C |
| f) | Boiling point | : | No data available |
| g) | Flash Point | : | No data available |
| h) | Auto Ignition temp | : | No data available |
| i) | Evaporation rate | : | No data available |
| j) | Flammability (Solid, gas) | : | No data available |
| k) | Upper Explosive Limits (LEL) | : | No data available |
| | Lower Explosive Limit (UEL) | : | |
| l) | Vapour pressure | : | No data available |
| m) | Vapour density | : | No data available |
| n) | Relative density | : | No data available |
| o) | Water solubility | : | No data available |
| p) | Partition coefficient: n-octanol /water | : | No data available |
| 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

- | | | |
|-------------------------|---|-------------------|
| Relative vapour density | : | No data available |
|-------------------------|---|-------------------|

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 reaction | : | No data available. |




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- 10.4 Conditions to avoid** : No data available
- 10.5 Incompatible materials** : Strong Oxidizing agents, Strong bases
- 10.6 Hazardous decomposition products** : Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO_x), Hydrogen chloride gas Other decomposition products - No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- Acute Toxicity : LD50 Oral – Rat 100 mg/kg(Bis(2-chloroethyl)amine hydrochloride)
LD 50 Dermal Rabbit : No data available
- Skin corrosion / irritation : No data available
- Serious Eye damage / Eye irritation : No data available
- Germ cell mutagenicity : No data available
- Carcinogenicity : No data available
IARC, OSHA, ACGIH,NTP :
EPA classification.
- Reproductive toxicity : No data available
- TLV : No data available
STEL : No data available
- Specific target organ toxicity - single exposure : No data available
- Specific target organ toxicity - repeated exposure : No data available
- Aspiration hazard : No data available

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Additional Information :

Endocrine disrupting properties


Product: Assessment : 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.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity** : No data available
Fish:
Crustacea
Algae:
- 12.2 Persistence / degradability** : No data available
- 12.3 Bioaccumulative potential(BCF)** : No data available
- 12.4 Mobility in soil** : No data available
- 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 Endocrine disrupting properties**
Product: Assessment : 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.
- 12.7 Other adverse effects** : No data available

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods** : **Product**
 Dispose off in a manner consistent with Federal, State and Local Regulations Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on

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SECTION 16: Other Information

- 16.1 The above information is believed to be accurate and represents the best information currently available to us. However we make no warranty of merchantability or any other warranty, express or implied, with respect to such information and we assume no liability resulting from it's use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall ANSHUL SPECIALTY MOLECULES PVT. LTD. be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from use or reliance upon this information.

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