

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

|                             |   |
|-----------------------------|---|
| <b>Catalogue Number</b>     | CS-ER-00416   |
| <b>Product Name</b>         | Carmustine Related Compound A(Secondary Standards traceble to USP)  |
| <b>CAS No.</b>              | 2214-72-4   |
| <b>Category</b>             | Secondary Standards   |
| <b>Synonyms</b>             | N,N'-Bis(2-chloroethyl)urea (ACI); Urea, 1,3-bis(2-chloroethyl)- (6Cl, 7Cl, 8Cl); 1,3-Bis(2-chloroethyl)urea; NSC 36198 |
| <b>Brand</b>                | Clearsynth Labs Ltd.  |
| <b>Identified uses</b>      | Laboratory Chemicals  |
| <b>Uses advised against</b> | Not available   |
| <b>Company</b>              | Clearsynth Labs Ltd.<br>Mumbai, India   |
| <b>Emergency Phone #</b>    | +91-22-245045900  |
| <b>REACH No.</b>            | Not available   |

### SECTION 2: Hazards identification

**Disclaimer:** This is sample MSDS. Please email [sales@clearsynth.com](mailto:sales@clearsynth.com) for more details.

#### 2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Not available

#### 2.2 Label Elements

**Signal Word:** Warning

Not available

#### Hazard Statement(s)

| Code | Statement     |
|------|---------------|
| H228 | Not available |
| H301 | Not available |
| H341 | Not available |
| H351 | Not available |
| H361 | Not available |

#### Precautionary Statement(s)

| Code      | Statement   |
|-----------|---|
| P203      | Not available   |
| P210      | Not available   |
| P240      | Not available   |
| P241      | Not available   |
| P264      | Wash hands thoroughly after handling.   |
| P270      | Not available   |
| P280      | Wear protective gloves/protective clothing/eye protection/face protection.                        |
| P301+P316 | Not available   |
| P318      | Not available   |
| P321      | Specific treatment (see ... on this label).   |
| P330      | Not available   |
| P370+P378 | Not available   |
| P405      | Store locked up.  |
| P501      | Dispose of contents/container in accordance with local/regional/national/international regulation |

### SECTION 3: Composition / information on ingredients

#### 3.1 Substance

Component : Carmustine Related Compound A(Secondary Standards traceble to USP)

CAS Number : 2214-72-4

Molecular Formula : C<sub>5</sub>H<sub>10</sub>Cl<sub>2</sub>N<sub>2</sub>O

Molecular Weight : 185.05

Parent Chemical : Carmustine

Synonyms : N,N'-Bis(2-chloroethyl)urea (ACI); Urea, 1,3-bis(2-chloroethyl)- (6Cl, 7Cl, 8Cl);

1,3-Bis(2-chloroethyl)urea; NSC 36198

Concentration : Not available

### SECTION 4: First aid measures

#### SECTION 4: First-aid measures

##### 4.1 Description of first aid measures

General advice: Seek medical attention if symptoms occur or persist. Show this SDS to medical personnel.

Inhalation: Move person to fresh air. Keep at rest. If breathing is difficult, seek medical attention.

Skin contact: Remove contaminated clothing and shoes. Wash skin with plenty of water and soap. Seek medical attention if irritation develops.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed  
Not available.

4.3 Indication of any immediate medical attention and special treatment needed  
Treat symptomatically. Not available.

### SECTION 5: Firefighting measures

#### SECTION 5: Fire-fighting measures

##### 5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures appropriate to local circumstances and the surrounding environment (e.g., water spray, dry chemical, foam, carbon dioxide).

Unsuitable extinguishing media: Not available.

##### 5.2 Special hazards arising from the substance or mixture

May decompose under fire conditions to release hazardous gases/vapors. Specific decomposition products: Not available.

##### 5.3 Advice for firefighters

Wear self-contained breathing apparatus (SCBA) and full protective gear. Fight fire from a safe distance and protected location. Prevent fire-fighting water from entering drains or waterways.

### SECTION 6: Accidental release measures

#### SECTION 6: Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing dust/vapors. Avoid contact with skin and eyes. Use appropriate personal protective equipment (see Section 8). Ensure adequate ventilation.

##### 6.2 Environmental precautions

Avoid release to the environment. Prevent entry into drains, surface water, and soil.

##### 6.3 Methods and material for containment and cleaning up

For small spills: Avoid generating dust. Carefully collect spilled material using suitable tools and place in a compatible, labeled container for disposal.

For large spills: Contain spill. Collect mechanically where possible. Clean contaminated area with suitable cleaning method. Dispose of waste in accordance with local regulations.

##### 6.4 Reference to other sections

See Section 8 for personal protective equipment and Section 13 for disposal considerations.

### SECTION-7: Handling and storage

#### SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust/vapors. Avoid contact with skin, eyes, and clothing. Use with adequate ventilation. Do not eat, drink, or smoke when using this product. Wash hands thoroughly after handling.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a tightly closed container in a cool, dry, well-ventilated place. Protect from moisture and incompatible materials. Specific storage temperature: Not available.

Incompatibilities: Not available.

### 7.3 Specific end use(s)

Secondary standard / laboratory use. Not available.

## SECTION 8: Exposure controls / personal protection

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limits: Not available.

Biological limit values: Not available.

#### 8.2 Exposure controls

Engineering controls: Use local exhaust ventilation or other engineering controls to maintain airborne levels below applicable exposure limits (if established). Use in a chemical fume hood where appropriate.

Personal protective equipment (PPE):

- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Protective gloves (material not available). Wear protective clothing to prevent skin contact.
- Respiratory protection: If ventilation is inadequate or dust/vapors are generated, use appropriate respiratory protection. Specific respirator type: Not available.
- Hygiene measures: Wash hands after handling. Remove contaminated clothing and wash before reuse.

Environmental exposure controls: Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| Test        | Result            |
|-------------|-------------------|
| Appearance  | No data available |
| IR spectrum | No data available |
| pH          | No data available |
| Solubility  | No data available |

| Property          | Value             |
|-------------------|-------------------|
| a) Physical State | No data available |

| Property                                   | Value             |
|--|-------------------|
| b) Color                                   | No data available |
| c) Odor                                    | No data available |
| d) pH                                      | No data available |
| e) Vapour Pressure                         | No data available |
| f) Viscosity                               | No data available |
| g) Initial Boiling Point and boiling range | No data available |
| h) Melting Point / Freezing Point          | No data available |
| i) Auto Ignition Temperature               | No data available |
| j) Flash Point                             | No data available |
| k) Explosion Limit, Lower                  | No data available |
| l) Explosion Limit, Upper                  | No data available |
| m) Decomposition Temperature               | No data available |
| n) Loss on Drying                          | No data available |
| o) Relative Density                        | No data available |
| p) Solubility (in DMSO)                    | No data available |
| q) Oxidizing Properties                    | No data available |

## SECTION 10: Stability and reactivity

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Not available.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Not available.

#### 10.4 Conditions to avoid

Heat, open flames, and other ignition sources. Avoid conditions that generate dust. Other conditions: Not available.

#### 10.5 Incompatible materials

Not available.

#### 10.6 Hazardous decomposition products

Not available.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

- Acute toxicity: No data available.
- Skin corrosion/irritation: No data available.
- Serious eye damage/eye irritation: No data available.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: No data available.
- Carcinogenicity: No data available.
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: No data available.
- Aspiration hazard: No data available.

#### Likely routes of exposure

- No data available.

#### Symptoms related to the physical, chemical and toxicological characteristics

- Not available.

### SECTION 12: Ecological information

#### SECTION 12: Ecological information

##### 12.1 Toxicity

Not available.

##### 12.2 Persistence and degradability

Not available.

##### 12.3 Bioaccumulative potential

Not available.

##### 12.4 Mobility in soil

Not available.

##### 12.5 Results of PBT and vPvB assessment

Not available.

##### 12.6 Endocrine disrupting properties

Not available.

##### 12.7 Other adverse effects

Not available.

### SECTION 13: Disposal considerations

#### SECTION 13: Disposal considerations

##### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

Do not discharge to drains or the environment.

Recommended disposal method: Not available.

Contaminated packaging: Dispose of as unused product unless cleaned/decontaminated in accordance with applicable regulations.

### SECTION 14: Transport information

SECTION 14: Transport information

14.1 UN number

Not available.

14.2 UN proper shipping name

Not available.

14.3 Transport hazard class(es)

Not available.

14.4 Packing group

Not available.

14.5 Environmental hazards

Not available.

14.6 Special precautions for user

Not available.

14.7 Maritime transport in bulk according to IMO instruments

Not available.

### SECTION 15: Regulatory information

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Not available.

15.2 Chemical safety assessment

Not available.

### SECTION 16: Other information

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Product name: Carmustine Related Compound A (Secondary Standards traceble to USP)

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CAS No.: 2214-72-4

Synonyms: N,N'-Bis(2-chloroethyl)urea (ACI); Urea, 1,3-bis(2-chloroethyl)- (6Cl, 7Cl, 8Cl);

1,3-Bis(2-chloroethyl)urea; NSC 36198

Supplier: Clearsynth Labs Ltd., Mumbai, India

Emergency phone: +91-22-245045900

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Revision date: Not available.

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