



## SAFETY DATA SHEET

DATE: 6<sup>th</sup> January 2025

### 1. Identification

**Product Name:** Lomustine

**CAS Number:** 13010-47-4

**Recommended use/Use advised against:** No information available

#### **Details of the Australian Supplier:**

Astral Scientific Pty Ltd  
29 Mangrove Lane  
Taren Point NSW 2229

**Company Phone Number:** 02 9540 2055

**Email Address:** [support@astralscientific.com.au](mailto:support@astralscientific.com.au)

**Emergency Telephone Number:** 13 11 26

### 2. Hazard(s) Identification

#### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### **Label Elements**

**Signal Word:** Danger

**Hazard Statements:** Toxic if swallowed. May cause cancer



**Precautionary Statements:** Prevention: Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Response: IF exposed or concerned: Get medical attention/advice Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

Storage: Store locked up

Disposal: Dispose of contents/container to an approved waste disposal plant. Hazards not otherwise

classified (HNOC) None identified WARNING. Cancer and Reproductive Harm -  
<https://www.p65warnings.ca.gov/>

### **3.Composition / Information on ingredients**

Component	CAS #	Purity / Weight %
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea	13010-47-4	<=100

### **4.First-aid measures**

**General Advice** Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

**Eye Contact** Rinse immediately with plenty of water. Get medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately.

**Most important symptoms/effects** None reasonably foreseeable.

**Notes to physician** Treat symptomatically

### **5.Fire-fighting measures**

**Suitable extinguishing media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

**Unsuitable extinguishing media** No information available

**Flash Point** No information available

**Method** No information available

**Autoignition temperature** No information available

### **Explosion limits**

**Upper** No information available

**Lower** No information available

**Sensitivity to mechanical impact** No information available

**Sensitivity to static discharge** No information available

### **Specific hazards arising from the chemical**

Keep product and empty container away from heat and sources of ignition.

### **Hazardous combustion products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Hydrogen chloride.

### **Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **6.Accidental release measure**

**Personal precautions** Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

**Environmental precautions** Should not be released into the environment. See section 12 for additional Ecological Information.

**Methods for containment/clean-up** Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. Avoid dust formation.

## **7.Handling and storage**

**Handling** Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes.

**Storage** Keep container tightly closed in a dry and well-ventilated place. Protect from light. Incompatible Materials. Strong oxidizing agents. Strong bases.

## **8.Exposure controls / personal protection**

### **Personal protective equipment**

**Eye/Face protection** Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not

breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

**Skin and body protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory protection**

Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**9.Physical and chemical properties**

**Physical state**

Solid

**Appearance**

No information available

**Odor**

Odorless

**Odor threshold**

No information available

**pH**

No information available

**Melting point/range**

88 - 90 °C / 190.4 - 194 °F

**Boiling point/range**

No information available

**Flash point**

No information available

**Evaporation rate**

Not applicable

**Flammability (solid, gas)**

No information available

**Flammability or explosive elements**

**Upper**

No information available

**Lower**

No information available

**Vapor pressure**

No information available

**Vapor density**

Not applicable

**Specific gravity**

No information available

**Solubility**

No information available

**Partition coefficient; n-octanol/water**

No data available

**Autoignition temperature**

No information available

**Decomposition temperature**

No information available

**Viscosity**

Not applicable

**10.Stability and reactivity**

<b>Reactive hazard</b>	None known, based on information available
<b>Stability</b>	Stable under normal conditions
<b>Conditions to avoid</b>	Incompatible products. Excess heat. Avoid dust formation.
<b>Incompatible materials</b>	Strong oxidizing agents
<b>Hazardous decomposition products</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NO <sub>x</sub> ), Sulfur oxides
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur
<b>Hazardous reactions</b>	None under normal processing

### **11. Toxicological information**

#### **Acute Toxicity**

##### **Product information / Component information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea	LD50 = 70 mg/kg ( Rat )	Not listed	Not listed

**Toxicologically synergistic products** No information available

#### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Irritation** No information available

**Sensitization** No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea	13010-47-4	Group 2A	Reasonably Anticipated	Not listed	X	Not listed

**Mutagenic effects** No information available

**Reproductive effects** No information available

**Developmental effects** No information available

**Teratogenicity** No information available

<b>STOT – single exposure</b>	None known
<b>STOT – repeated exposure</b>	None known
<b>Aspiration hazard</b>	No information available
<b>Symptoms/effects, both acute and delayed</b>	Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing
<b>Endocrine disruptor information</b>	No information available
<b>Other adverse effects</b>	The toxicological properties have not been fully investigated.

## **12. Ecological information**

### **Ecotoxicity**

Do not empty into drains

**Persistence and degradability** Persistence is unlikely

**Bioaccumulation/accumulation** No information available

**Mobility** Will likely be mobile in the environment due to its water solubility.

## **13. Disposal considerations**

**Waste disposal methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional and national hazardous waste regulations to ensure complete and accurate classification.

## **14. Transport information**

**DOT** Not regulated

**TDG** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

## **15. Regulatory information**

### **International Inventories**

**TSCA** Not listed

Note \*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

**DSL/NDSL** Complies

**EINECS/ELINCS** Complies

**ENCS** This product complies with ENCS:

**IECSC** This product does not comply with china:

**KECL** Does not Comply

**PICCS** Does not Comply

**AICS** All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**Revision date** 6<sup>th</sup> January 2025

**Revision Note** No information available.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**