

Issue Date: 05/02/2019

Revision Date: N/A

Supersedes Date: N/A

Version Number: 01

SAFETY DATA SHEET

Product Code: CSCL202-500G

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SECTION 1

PRODUCT IDENTIFICATION

GHS Product Identifier L-CYSTEINE HYDROCHLORIDE MONOHYDRATE

Recommended use of the chemical and restrictions on use

Laboratory reagent.

Other Names L-CYSTEINE HYDROCHLORIDE MONOHYDRATE LR
3-Mercapto-2-aminopropanoic acid hydrochloride
3-Mercapto-2-aminopropionic acid hydrochloride

SECTION 2

HAZARD IDENTIFICATION

GHS Classification of the Substance/Mixture Eye Damage/Irritation: Category 2
Skin Corrosion/Irritation: Category 2
Specific Target Organ Toxicity - Single Exposure Category 3 (respiratory tract irritation)

Signal Word(s) WARNING

Hazard Statement(s) H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Pictogram (s)



Exclamation Mark

Precautionary Statement - Prevention P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement - Response P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

Precautionary Statement - Storage P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Precautionary Statement - Disposal P501 Dispose of contents/container to an approved waste disposal plant.



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SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Solid

Ingredients	CAS Number
L-Cysteine hydrochloride monohydrate	7048-04-6

SECTION 4 FIRST AID MEASURES

Inhalation	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice.
Skin	Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical advice /attention depending on the severity.
Eye Contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.
First Aid Facilities	Maintain eyewash fountain and drench facilities in work area
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor

SECTION 5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Small fire: Use dry chemical, CO ₂ , water spray or foam
Specific Hazards Arising from the Chemical	Combustible. Containers may explode when heated. Runoff may pollute waterways. Fire or heat may produce irritating, poisonous and/or corrosive gases
Decomposition Temperature	175 - 178 °C
Precautions in Connection with Fire	Wear SCBA and structural firefighter's uniform.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms. Avoid dust formation. Use in a well ventilated area.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling	Avoid contact with skin and eyes. Avoid dust formation. Use in a well ventilated area
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Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed and in a cool, dry, well-ventilated place, away from sources of heat or ignition. Store away from oxidizing agents. Keep away from light
Air and light sensitive.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Other Exposure Information

No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts not otherwise specified is 10 mg/m³.

Appropriate Engineering Controls

In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

Respiratory Protection

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

Eye Protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Hand Protection

Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Personal Protective Equipment

Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.

Body Protection

Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hygiene Measures

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using

SECTION 9

PHYSICAL/CHEMICAL PROPERTIES

Form

Solid

Appearance

White crystalline solid. Hygroscopic. May discolour on exposure to air and light.

Odour

Slightly pungent.

Decomposition Temperature

175 - 178 °C

Melting Point

175-178°C

Solubility in Water

650 g/l (10%, H₂O, 20 °C)

Specific Gravity

1.15

pH

1 - 2 (25 g/l, H₂O)

Flammability

Combustible

Molecular Weight

175.64

SECTION 10

STABILITY AND REACTIVITY

Chemical Stability

Relatively stable. Light and air sensitive.

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Conditions to Avoid	Exposure to moisture. Air and light sensitive.
Incompatible Materials	Strong oxidising agents, most common metals, iron and other heavy metals, copper and hydrogen chloride.
Hazardous Decomposition Products	Hydrogen sulfide, hydrogen chloride gas, oxides of carbon, sulfur and nitrogen.
Hazardous Polymerization	Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Ingestion	May cause mild irritation to the gastrointestinal tract. May be harmful if swallowed. Large oral doses may cause general depressed activity
Inhalation	Causes irritation to the respiratory tract and mucous membranes. Symptoms may include coughing and shortness of breath. May be harmful if inhaled.
Skin	Causes skin irritation with redness and pain. May be harmful if absorbed through the skin.
Eye	Dust causes eye irritation. Symptoms include stinging, tearing, redness and swelling of eyes.
STOT-single Exposure	Specific Target Organ Toxicity - Single Exposure Category 3 (respiratory tract irritation)

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity	Do not empty into drains.
Persistence and Degradability	Product is biodegradable.

SECTION 13 DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.

SECTION 14 TRANSPORT INFORMATION

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail

SECTION 15 REGULATORY INFORMATION

Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals

Poisons Schedule	Not Scheduled
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SECTION 16 OTHER INFORMATION

Literature References

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Empirical Formula & Structural Formula

$C_3H_7NO_2 \cdot S \cdot HCl \cdot H_2O$

END OF SDS