MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material Name: Ascorbic acid ACS/ISO grade.
Catalogue Number: C159.
Other Names: L-Threoascorbic acid; Antiscorbutic factor; Vitamin C.
Recommended Use: For decalcification of hard tissues in EM and light microscopy.

Supplier Name: **ProSciTech**
Street Address: 1/11 Carlton Street, Kirwan, Qld. 4817 Australia
Telephone Number: (07) 4773 9444 **Fax Number:** (07) 4773 2244
Emergency Contact: (07) 4773 9444 8:30am – 5:00pm, Monday to Friday

SECTION 2 - HAZARDS IDENTIFICATION

Hazard Classification: Not classified as hazardous according to criteria of NOHSC.
Hazardous and/or Dangerous Nature: NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Risk Phrases:
Safety Phrases:

SECTION 3 - COMPOSITION /INFORMATION ON INGREDIENTS

SUBSTANCE:
Chemical Identity: Ascorbic acid ACS/ISO grade.
Common Name(s): L-Threoascorbic acid; Antiscorbutic factor; Vitamin C.
CAS Number(s): 50-81-7

MIXTURE:

Ingredients	Cas Number(s)	Proportion (%)
Ascorbic acid ACS/ISO grade	50-81-7	-

SECTION 4 - FIRST AID MEASURES

Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.
Eye: Flush eyes with water as a precaution.
Skin: Wash off with soap and plenty of water.
Inhaled: If breathed in, move person into fresh air. If not breathing give artificial respiration
First Aid Facilities: Eyebath/eyewash & Safety shower.
Medical Attention & Special Treatment:
Seek medical attention if pain or irritation develops/persists.
ADDITIONAL INFORMATION:

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media:
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Hazards from Combustion Products:
Hazardous decomposition products formed under fire conditions. - Carbon oxides.
Precautions for Fire Fighters:
Wear self contained breathing apparatus for firefighting if necessary.
Hazchem Code: Not available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Emergency Procedures:
Avoid dust formation. Do not let product enter drains.
Containment and clean up:
Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7 - HANDLING & STORAGE

Precautions for Safe Handling:
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire

protection.

Conditions for Safe Storage:

Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Light sensitive.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: No exposure standard allocated.
Biological Limit Values: No biological limit allocated.
Engineering Controls:
Use only in a well ventilated area.
Personal Protective Equipment:
Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection: For prolonged or repeated contact use protective gloves.
Eye protection: Safety glasses
Hygiene measures: General industrial hygiene practice.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Solid.
Odour:	Not available.
pH:	1,0 - 2,5 at 176 g/l at 25 °C
Vapour pressure (mm of Hg at 25°C):	Not available.
Vapour density:	Not available.
Boiling point/range (°C):	Not available.
Freezing/melting point (°C):	193 °C.
Solubility:	176 g/l at 20 °C - completely soluble
Specific gravity or density:	Not available.
Flash Point:	Not available.
Flammable (explosive) limits:	Not available.
Ignition temperature:	Not available.
Additional Information:	

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Light and incompatible materials.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	Hazardous decomposition products formed under fire conditions. - Carbon oxides.
Hazardous Reactions:	Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Exposure and Health Effects:

Ingestion:

May be harmful if swallowed. Chronic ingestion of large doses may cause gastrointestinal disturbances including nausea and diarrhea, urinary effects involving urine acidification, oxalate and uric crystallization in the bladder and kidney, and decreased reaction times and psychomotor coordination.

Inhalation:

May be harmful if inhaled. May cause respiratory tract irritation.

Skin Contact:

May be harmful if absorbed through skin. May cause skin irritation.

Eye Contact:

May cause eye irritation.

Human/Animal data: LD50 Oral - rat - 11.900 mg/kg - Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Lacrimation. Behavioral: Somnolence (general depressed activity). Diarrhea

Genotoxicity in vitro - mouse - Liver
Other mutation test systems

Genotoxicity in vivo - mouse - Intraperitoneal
Micronucleus test

Carcinogenicity: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Not available.
Persistence and degradability: Not available.
Mobility: Not available.
Additional Information: Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods:
Observe all federal, state, and local environmental regulations.
Special Precautions:
Contaminated packaging: Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN Number: Not regulated.
UN Proper Shipping Name: Not regulated.
Class and Subsidiary risk: Not regulated.
Packing Group: Not regulated.
Special Precautions for User: Not available.
Hazchem Code: Not available.

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number: None allocated.

SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS: August 10
Comments:

The information published in this Material Safety Data Sheet has been compiled from data in various technical publications. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. We reserve the right to revise material Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.