

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material Name: Malachite green 1% aqueous solution
Catalogue Number: AMLGR-500
Other Names: Malachite green stain solution
Recommended Use: For use in hospital and pathology laboratories only as a microbiological staining solution.

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: Hazardous according to criteria of NOHSC.
Hazardous and/or HAZARDOUS SUBSTANCE. DANGEROUS GOODS.
Dangerous Nature:
Risk Phrases: R22 Harmful if swallowed.
R41 Risk of serious damage to eyes
Safety Phrases: S1/2 Keep locked up and out of reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE: **Chemical Identity:** Malachite Green
Common Name(s):
CAS Number(s): 569-64-2

MIXTURE:

Ingredients	Cas Number(s)	Proportion (%)
Water and other Non-Hazardous substances	Mixture	99
Malachite Green	569-64-2	1

SECTION 4 - FIRST AID MEASURES

Swallowed: If swallowed, DO NOT induce vomiting. Give 3 to 4 glasses of water to drink. Seek urgent medical assistance.
Eye: If material is splashed into eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. Immediately transport to hospital or doctor.
Skin: If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly soap and water. Urgently transport to hospital or doctor.
Inhaled: Remove victim to fresh air. Do not use mouth-to-mouth methods if victim inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.
First Aid Facilities: Eyebath/eyewash & Safety shower.

Medical Attention & Special Treatment:

Treat symptomatically.

ADDITIONAL INFORMATION:

In case of poisoning, contact Poisons Information Centre
In Australia call Tel: 131126
In New Zealand Tel: 034747000

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Use dry chemical, carbon dioxide, foam or water spray.

Hazards from Combustion Products:

Fire or heat will produce irritating, toxic and/or corrosive gases.

Precautions for Fire Fighters:

Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. If possible to do so safely, shut off fuel to fire. Use water spray to spray to cool fire-exposed surfaces and to protect personnel. Material does not burn. Fire or heat will produce irritating, toxic and/or corrosive gases. Runoff may pollute waterways, drains or

sewers.

Hazchem Code: 2X**SECTION 6 - ACCIDENTAL RELEASE MEASURES****Emergency Procedures:**

Keep unnecessary people away; Isolate hazard area and deny entry. Stay upwind; Keep out of low areas. Do not walk or touch spilt material unless wearing personal protection as outlined under MSDS.

Containment and clean up:

Shut off ignition sources, no flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Water spray may reduce vapour.

SMALL SPILLS:

Take up with sand, dirt or vermiculite. DO NOT use sawdust. Use non-sparking tools. Place into labeled drum(s) for later disposal.

LARGE SPILLS:

Notify Emergency Services (Police or Fire Brigade). Tell them exact location, nature, hazards, quantities, type of vehicle and any other information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained personnel should wear Personal Protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding disposal of this product.

SECTION 7 - HANDLING & STORAGE**Precautions for Safe Handling:**

A supplied air respirator or a Self-Contained Breathing Apparatus (SCBA) for emergencies should be available and checked regularly. For further information please refer to the Engineering Controls of this MSDS.

Wear appropriate protective equipment and practice good work hygiene.

Conditions for Safe Storage:

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition, strong alkalis, acids, combustibles and oxidizing agents. All equipment must be earthed. Store in original packages as approved by manufacturer. Check all fittings, valves, reticulation (piping) and any ancillary equipment for leaks.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: No exposure standard allocated.

Biological Limit Values: No biological limit allocated.

Engineering Controls:

Toxic material. Single significant exposure may cause death. Maintain adequate ventilation at all times. Prevent accumulation of gas(es) in hollows or sumps. Eliminate any sources of ignition. DO NOT enter room unless monitored by another person (i.e. buddy-buddy system).

Personal Protective Equipment:

CLOTHING: Nitrile or neoprene apron.

GLOVES: Nitrile or neoprene.

EYES: Chemical goggles or face shield to protect eyes.

RESPIRATORY PROTECTION: Avoid breathing of vapours. Select and use respirators in accordance with AS/NZS 1715/1716. When vapours approach the exposure standards then the use of a half-face organic vapour respirator with dust/mist filter is recommended. When vapours exceed the exposure standards, the use of a positive pressure demand self-contained or airline breathing apparatus supplied air respirator complying with the requirements of AS/NZS 1715 is recommended. Filter capacity and respirator type depends on exposure levels. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Green liquid.
Odour:	Not available.
pH:	Not available.
Vapour pressure (mm of Hg at 25°C):	Not available.
Vapour density:	Not available.
Boiling point/range (°C):	100°C.
Freezing/melting point (°C):	0°C.
Solubility:	Soluble in all proportions.
Specific gravity or density:	1kg = 1L

Flash Point:	Not applicable
Flammable (explosive) limits:	Not applicable.
Ignition temperature:	Not available.
Additional Information:	

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Heat, flames, ignition sources and incompatibles.
Incompatible Materials:	Strong alkalis, acids, nitrates and oxidizing agents.
Hazardous Decomposition	Emits acrid smoke and fumes when heated to decomposition.
Products:	
Hazardous Reactions:	Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Exposure and Health Effects: No adverse health effects are expected, if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:

Harmful if swallowed.

May cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach, which may lead to nausea, vomiting and diarrhoea. Prolonged or repeated exposure may lead to irreversible damage to health.

Inhalation:

Mists from the product may cause irritation to the nose, throat and respiratory system with effects including: Cough, discomfort, difficulty breathing and shortness of breath. Prolonged or repeated exposure may lead to irreversible damage to health.

Skin Contact:

May cause irritation to the skin, with effects including; Redness and itchiness. Prolonged or repeated exposure may lead to irreversible damage to health.

Eye Contact:

Will cause severe irritation to the eyes with effects including: tearing, pain, corneal opacity and blurred vision. If prompt action is not taken permanent eye damage may occur. Prolonged contact may cause severe eye irritation and some form of permanent eye damage may occur. Prolonged or repeated exposure may lead to irreversible damage to health.

Human/Animal data: Not available.

Carcinogenicity: Not available.

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:

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Advise toxic nature. Normally suitable for disposal by approved waste disposal agent.

Special Precautions:

SECTION 14 - TRANSPORT INFORMATION

UN Number:	UN1602
UN Proper Shipping Name:	DYE, LIQUID, TOXIC, N.O.S. Malachite Green
Class and Subsidiary risk:	6.1
Packing Group:	PG II
Special Precautions for User:	Label: Harmful (Xn), Irritant (Xi)
Hazchem Code:	2X

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number: S6

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.