

Safety Data Sheet **MALACHITE GREEN OXALATE**

SDS no. 7H0HSUXJ • Version 1.0 • Date of issue: 2024-11-20

SECTION 1: Identification

GHS Product identifier

Product name MALACHITE GREEN OXALATE

Other means of identification

Product Product Code

C.I. 42000,
Acryl Brilliant Green,
Aniline Green,
China Green,
Fast Green,
Victoria Green,
Basic Green 4
MALACHITE GREEN OXALATE

ML175

Recommended use of the chemical and restrictions on use

Laboratory and Analytical Reagent

Supplier's details

Name ChemSupply Australia Pty Ltd
Address 38-50 Bedford Street
5013 Gillman South Australia
Australia

Telephone 08 8440 2000
email www.chemsupply.com.au

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

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Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Acute toxicity, oral, Cat. 4
- Hazardous to the aquatic environment, short-term (acute), Cat. 1
- Hazardous to the aquatic environment, long-term (chronic), Cat. 1
- Serious eye damage/eye irritation, Cat. 1
- Germ cell mutagenicity, Cat. 2
- Toxic to reproduction, Cat. 2

GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statement(s)

H302
H318
H341
H361
H410

Harmful if swallowed
Causes serious eye damage
Suspected of causing genetic defects
Suspected of damaging fertility or the unborn child
Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P202
P270
P273
P280
P301+P312
P305+P351+P338

P310
P391
P405
P501

Do not handle until all safety precautions have been read and understood.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell,
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor/physician
Collect spillage.
Store locked up.
Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight: 927.02

Components

Component	CAS no.	Concentration
Malachite Green Oxalate salt (EC no.: 219-441-7; Index no.: 602-096-00-5)	2437-29-8	<= 100 % (weight)
CLASSIFICATIONS: Toxic to reproduction, Cat. 2; Acute toxicity, oral, Cat. 4; Serious eye damage/eye irritation, Cat. 1; Hazardous to the aquatic environment, short-term (acute), Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 1. HAZARDS: H302 - Harmful if swallowed; H318 - Causes serious eye damage; H361d - ; H400 - Very toxic to aquatic life; H410 - Very toxic to aquatic life with long lasting effects.		

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor (at once).
If inhaled	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear.
In case of skin contact	Wash affected areas with copious quantities of water immediately for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical advice.
In case of eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Obtain medical attention immediately.
If swallowed	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice. Toxic if swallowed.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Water spray, Carbon dioxide, dry chemical, chemical foam.

Specific hazards arising from the chemical

Thermal decomposition can lead to the release of irritating gases and vapors.

Special protective actions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
Wear protective clothing specified for normal operations (see Section 8)

Methods and materials for containment and cleaning up

Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.
Avoid release to the environment.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Do not breathe dust, vapors or spray mist.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a cool, well-ventilated place

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Not normally required. Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face 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.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Body protection

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

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.

Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Solid
Appearance	Powder
Color	Green
Odor	Odourless
Odor threshold	No data available.
Melting point/freezing point	164°C
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.

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Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	2 (2% Solution)
Kinematic viscosity	No data available.
Solubility	Solubility in Water: 60 g/l (20°C)
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	Negligible
Evaporation rate	No data available.
Density and/or relative density	No data available.
Relative vapor density	No data available.
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions of storage and handling.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

Conditions to avoid

Incompatible materials.

Incompatible materials

Strong oxidizing agents. Strong bases. Strong reducing agents.

Hazardous decomposition products

Nitrogen oxides (NO_x). Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute Toxicity - Oral: LD50 Oral Rat 275 mg/kg

Ingestion: Harmful if swallowed.

Skin corrosion/irritation

Based on available data, classification data are not met

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Serious eye damage/irritation

Serious eye damage/irritation: h318 Causes serious eye damage.

Respiratory or skin sensitization

Not classified based on available information.

Germ cell mutagenicity

Germ cell mutagenicity: Germ cell mutagenicity - category 2

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Reproductive toxicity - category - 2

Suspected human reproductive toxicant Suspected of damaging the unborn child.

Specific target organ toxicity (STOT) - single exposure

Not classified based on available information.

Specific target organ toxicity (STOT) - repeated exposure

Not classified based on available information.

Aspiration hazard

Not classified based on available information.

SECTION 12: Ecological information

Toxicity

Acute Toxicity - Daphnia: EC50 - Daphnia magna (Water flea) - 0.29 mg/l - 48 h

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Sewage disposal

No information available.

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)

UN Number: 2811
Class: 6.1
Packing Group: III
Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (Malachite Green Oxalate)

Hazchem emergency action code (EAC)

2X

IMDG

UN Number: 2811
Class: 6.1
Packing Group: III
Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (Malachite Green Oxalate)

IATA

UN Number: 2811
Class: 6.1
Packing Group: III
Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (Malachite Green Oxalate)

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP

Poison Schedule: S6

SECTION 16: Other information

Further information/disclaimer

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Preparation information

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

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Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.
Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019
Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au
IATA, Dangerous Goods Regulations (DGR)
IMO, International Maritime Dangerous Goods Code (IMDG)