



## Material Safety Data Sheet

Section 1: Product and Company Identification			
<b>Product Name</b>	Malachite Green Oxalate Salt		
<b>Catalogue Number:</b>	ASC-1034		
<b>E-mail:</b>	Sales@ausamics.com	<b>Website:</b>	Ausamics.com

Section 2: Hazards Identification					
<b>Classification of the substance or mixture</b> Acute toxicity, (Category 3) H301: Toxic if swallowed. Serious eye damage, (Category 1) H318: Causes serious eye damage. Reproductive toxicity, (Category 2) H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child. Short-term (acute) aquatic hazard, (Category 1) H400: Very toxic to aquatic life. Long-term (chronic) aquatic hazard, (Category 1) H410: Very toxic to aquatic life with long lasting effects.					
<b>Label elements</b> <b>Labelling according to Regulation (EC) No 1272/2008</b>					
Pictogram					
Signal Word		Danger			
<b>Hazard Statements</b> H301 Toxic if swallowed. H318 Causes serious eye damage. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H410 Very toxic to aquatic life with long lasting effects.					
<b>Precautionary Statements</b> P202 Do not handle until all safety precautions have been read and understood. P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Supplemental Hazard Statements none					
<b>Other hazards</b> This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.					



Section 3: Composition / Information on Ingredients		
<b>Mixture</b>		
Synonym	N,N,N',N'-Tetramethyl-4,4'-diaminotriphenylcarbenium oxalate Basic Green 4	
Formula	C23H25N2 · C2HO4 · 0.5C2H2O4	
Molecular weight	463,50 g/mol	
CAS-No.	2437-29-8	
EC-No.	219-441-7	
Index-No.	602-096-00-5	
Component	Classification	Concentration
<b>Malachite green oxalate</b>		
CAS-No.	2437-29-8	Acute Tox. 3; Eye Dam. 1; Repr. 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H318, H361fd, H400, H410
EC-No.	219-441-7	M-Factor - Aquatic Acute: 1 - Aquatic Chronic: 1
Index-No.	602-096-00-5	<= 100 %

Description of first-aid measures	
<b>General advice</b>	Show this material safety data sheet to the doctor in attendance.
<b>If inhaled</b>	After inhalation: fresh air. Call in physician.
<b>In case of skin contact</b>	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.
<b>In case of eye contact</b>	After eye contact: rinse out with plenty of water. Immediately call-in ophthalmologist. Remove contact lenses.
<b>If swallowed</b>	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.
<b>Most important symptoms and effects, both acute and delayed</b> The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.	
<b>Indication of any immediate medical attention and special treatment needed</b> No data available	

Section 5: Fire Fighting Measures
<b>Extinguishing media</b>
<b>Suitable extinguishing media</b> Water Foam Carbon dioxide (CO <sub>2</sub> ) Dry powder.
<b>Unsuitable extinguishing media</b> For this substance/mixture no limitations of extinguishing agents are given.
<b>Special hazards arising from the substance or mixture</b> Carbon oxides Nitrogen oxides (NO <sub>x</sub> ) Combustible. Development of hazardous combustion gases or vapors possible in the event of fire.

**Advice for firefighters**

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

**Further information**

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**Section 6: Accidental Release Measures****Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dust.

**Reference to other sections**

For disposal see section 13.

**Section 7: Handling and Storage****Precautions for safe handling**

For precautions see section 2.

**Conditions for safe storage, including any incompatibilities**

<b>Storage conditions</b>	Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.
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<b>Storage class</b>	Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects.
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**Section 8: Exposure Controls / Personal Protection****Control parameters****Ingredients with workplace control parameters****Exposure controls****Personal protective equipment****Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles.

**Skin protection**

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

**Body Protection**

protective clothing

**Respiratory protection**

required when dust is generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P3

The entrepreneur must ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures must be properly documented.

**Control of environmental exposure**

Do not let product enter drains.

**Section 9: Physical and Chemical Properties**

Physical state	Solid
Color	No data available
Odor	No data available
Melting point/freezing point	Melting point/range: 144 - 150 °C
Initial boiling point and boiling range	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Flash point	No data available
Vapor pressure	No data available
Autoignition temperature	No data available
Decomposition temperature	164 °C
pH	No data available
Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
Water solubility	Soluble
Partition coefficient: n-octanol/water	No data available
Density	No data available
Relative density	No data available
Relative vapor density	No data available
Particle characteristics	No data available
Explosive properties	No data available
Oxidizing properties	none
<b>Other safety information</b>	No data available

**Section 10: Stability and Reactivity****Reactivity**

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

**Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature).

**Possibility of hazardous reactions**

Violent reactions possible with: Strong oxidizing agents

**Conditions to avoid**

no information available

**Incompatible materials**

No data available

**Hazardous decomposition products**

In the event of fire: see section 5.

**Section 11: Toxicological Information****Information on toxicological effects****Mixture**

<b>Acute toxicity</b>	LD50 Oral - Rat - 275 mg/kg Remarks: Behavioral: Change in motor activity (specific assay). Diarrhea Gastrointestinal: Other changes. (RTECS) Acute toxicity estimate Oral - 275 mg/kg (ATE value derived from LD50/LC50 value) Inhalation: No data available Dermal: No data available
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	Remarks: Causes serious eye damage. Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	No data available
<b>Reproductive toxicity</b>	Suspected of damaging the unborn child. Suspected of damaging fertility.
<b>Specific target organ toxicity - single exposure</b>	No data available
<b>Specific target organ toxicity - repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>Additional Information</b>	
<b>Endocrine disrupting properties Product: Assessment</b>	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information	
<b>Toxicity</b>	
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0,29 mg/l - 48 h Remarks: (ECOTOX Database)
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Results of PBT and vPvB assessment</b>	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
<b>Endocrine disrupting properties</b> <b>Product:</b> Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
<b>Other adverse effects</b>	No data available

Section 13: Disposal Consideration	
<b>Waste treatment methods</b>	
<b>Product</b>	Offer surplus and non- recyclable solutions to a licensed company. Contact a licensed professional waste disposal service to dispose of this material
<b>Contaminated packaging</b>	Dispose of as unused product.

Section 14: Transport Information	
<b>UN number</b>	ADR/RID: 2811 IMDG: 2811 IATA: 2811
<b>UN proper shipping name</b>	ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (Malachite green oxalate) IMDG: TOXIC SOLID, ORGANIC, N.O.S. (Malachite green oxalate) IATA: Toxic solid, organic, n.o.s. (Malachite green oxalate)
<b>Transport hazard class(es)</b>	ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1
<b>Packaging group</b>	ADR/RID: III IMDG: III IATA: III
<b>Environmental hazards</b>	ADR/RID: yes IMDG Marine pollutant: yes IATA: no
<b>Special precautions for user</b>	Tunnel restriction code: (E)
<b>Further information</b>	No data available

Section 15: Regulatory Information	
<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.



<b>Authorizations and/or restrictions on use</b> <b>National legislation</b> Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	H2	ACUTE TOXIC
	E1	ENVIRONMENTAL HAZARDS
	H2	ACUTE TOXIC
	E1	ENVIRONMENTAL HAZARDS
<b>Other regulations</b> Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.		
<b>Chemical Safety Assessment</b> For this product a chemical safety assessment was not carried out.		

**Section 16: Additional Notes**

<b>Documented By</b>	Ausamics Life Science Sales@Ausamics.com
<b>Revision date</b>	June 11, 2024
<b>Summary of Revisions</b>	This document has been revised to meet the requirements of the US OSHA HazCom 2012 Standard, which supersedes the existing regulations outlined in 29 CFR 1910.1200, in order to align with the internationally recognized globally Harmonized System of Classification and Labeling of chemicals (GHS).
<b>Disclaimer</b>	The information presented in this Safety Data sheet is accurate to the best of our knowledge, information, and belief at the time of publication. It is intended as a guide for the safe handling, use, processing, storage, transportation, disposal, and release of specific materials. However, it should be interpreted as a warranty or quality specification. The provided information pertains solely to the designated material and may not be applicable to its use in combination with other materials or in any process, unless explicitly stated in the text.