



## Safety Data Sheet

### Malachite Green oxalate

#### Section 1: Chemical Product and Company Identification

**Product Name:** Malachite Green oxalate

**Catalog Codes:** 629

**CAS#:** 2437-29-8

**RTECS:** No data available

**Synonym:** C.I.42000

**Chemical Name:** -

**Chemical Formula:** C<sub>52</sub>H<sub>54</sub>N<sub>4</sub>O<sub>12</sub>

**Contact Information:**

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#### Section 2: Composition and Information on Ingredients

**Composition:**

| Name                    | CAS #     | % by Weight |
|-------------------------|-----------|-------------|
| Malachite Green oxalate | 2437-29-8 | 100         |

**Toxicological Data on Ingredients:** LD50 Oral - Rat - 275 mg/kg.

#### Section 3: Hazards Identification

**Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

Acute toxicity, Oral (Category 3), H301

Serious eye damage (Category 1), H318

Reproductive toxicity (Category 2), H361fd

Short-term (acute) aquatic hazard (Category 1), H400

Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Label elements****Labelling according Regulation (EC) No 1272/2008****Pictogram**

|                                |  |
|--------------------------------|--|
| Signal Word                    | Danger   |
| Hazard statement(s)            |  |
| H301                           | Toxic if swallowed.  |
| H318                           | Causes serious eye damage.   |
| H361                           | fd Suspected of damaging fertility. Suspected of damaging the unborn child.  |
| H410                           | Very toxic to aquatic life with long lasting effects.  |
| Precautionary statement(s)     |  |
| 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   |

**Reduced Labeling (<= 125 ml)****Pictogram**

|                                |  |
|--------------------------------|--|
| Signal Word                    | Danger   |
| Hazard statement(s)            |  |
| H301                           | Toxic if swallowed.  |
| H318                           | Causes serious eye damage.   |
| H361                           | fd Suspected of damaging fertility. Suspected of damaging the unborn child.  |
| Precautionary statement(s)     |  |
| P202                           | Do not handle until all safety precautions have been read and understood.  |
| P264                           | Wash skin thoroughly after handling.   |
| 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   |

**Other hazards**

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.

**Section 4: First Aid Measures****Description of first-aid measures****General advice**

Show this material safety data sheet to the doctor in attendance.

**If inhaled**

After inhalation: fresh air. Call in physician.

**In case of skin contact**

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

**In case of eye contact**

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

**If swallowed**

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.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 3) and/or in section 11

**Indication of any immediate medical attention and special treatment needed**

No data available

**Section 5: Fire and Explosion Data****Extinguishing media****Suitable extinguishing media**

Water Foam Carbon dioxide (CO<sub>2</sub>) Dry powder

**Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

**Special hazards arising from the substance or mixture**

Carbon oxides

Nitrogen oxides (NO<sub>x</sub>)

Combustible.

Development of hazardous combustion gases or vapours 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 dusts.

**Reference to other sections**

For disposal see section 13.

## Section 7: Handling and Storage

**Precautions for safe handling**

For precautions see section 3.

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

**Storage conditions**

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

**Storage class**

Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

## 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

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

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

**Control of environmental exposure**

Do not let product enter drains.

**Section 9: Physical and Chemical Properties****Information on basic physical and chemical properties**

|   |  |
|---|--|
| a) Physical state                               | solid  |
| b) Color  | No data available  |
| c) Odor   | No data available  |
| d) Melting point/freezing point                 | Melting point/range: 144 - 150 °C  |
| e) Initial boiling point and boiling range      | No data available  |
| f) Flammability (solid, gas)                    | No data available  |
| g) Upper/lower flammability or explosive limits | No data available  |
| h) Flash point                                  | No data available  |
| i) Autoignition temperature                     | No data available  |
| j) Decomposition temperature                    | 164 °C -   |
| k) pH   | 2.4 (24°C)   |
| l) Viscosity                                    | Viscosity, kinematic: No data available<br>Viscosity, dynamic: No data available |
| m) Water solubility                             | soluble  |
| n) Partition coefficient: n-octanol/water       | No data available  |
| o) Vapor pressure                               | No data available  |
| p) Density                                      | No data available  |
| Relative density                                | No data available  |

|                                 |                             |
|---------------------------------|-----------------------------|
| q) Relative vapor density       | No data available           |
| r) Particle characteristics     | No data available           |
| s) Explosive properties         | No data available           |
| t) Oxidizing properties         | none                        |
| <b>Other safety information</b> |                             |
| Bulk density                    | 400 - 500 kg/m <sup>3</sup> |

## Section 10: Stability and Reactivity Data

### 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 oxidising agents

### Conditions to avoid

no information available

### Incompatible materials

Strong oxidizing agents

### Hazardous decomposition products

In the event of fire: see section 5

## Section 11: Toxicological Information

### Information on toxicological effects

#### Acute toxicity

LD<sub>50</sub> 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

(Calculation method)

Inhalation: No data available

Dermal: No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

Causes serious eye damage. Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

Suspected of damaging the unborn child.

Suspected of damaging fertility.

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

**Endocrine disrupting properties**

**Product:**

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.

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

## Section 12: Ecological Information

### Toxicity



Toxicity to daphnia  
and other aquatic  
invertebrates  
EC50 - Daphnia magna (Water flea) - 0,29 mg/l - 48 h  
Remarks: (ECOTOX Database)

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

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.

**Endocrine disrupting properties**

**Product:**

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.

**Other adverse effects**

No data available

### Section 13: Disposal Considerations

**Waste treatment methods**

**Product**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself

### Section 14: Transport Information

**UN number**

ADR/RID: 2811 IMDG: 2811 IATA: 2811

**UN proper shipping name**

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)

**Transport hazard class(es)**

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

**Packaging group**

ADR/RID: III IMDG: III IATA: III

**Environmental hazards**

ADR/RID: yes IMDG Marine pollutant: yes IATA: no

**Special precautions for user**

No data available

## Section 15: Other Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**National legislation**

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

: ACUTE TOXIC

: ENVIRONMENTAL HAZARDS

: ACUTE TOXIC

: ENVIRONMENTAL HAZARDS

**Other regulations**

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.

**Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

## Section 16: Other Information

**References:** Not available

**Other Special Considerations:** Not available

**Created:** 01/07/2022

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