

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 1 Revision date: 10/02/2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: Malachite Green, Oxalate [Sensitive spectrophotometric reagent for PO4]

Product code: A5100

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht

Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.com

1.4 Emergency telephone number: +32(0)70 245 245

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute toxicity (Oral)Category 4Serious eye damage/eye irritationCategory 1Reproductive toxicityCategory 2Acute aquatic hazardCategory 1Long-term aquatic hazardCategory 1

2.2 Label elements

Pictograms or hazard symbols



Signal word Danger

Hazard statements H302-Harmful if swallowed. H318-Causes serious eye damage.

H361d-Suspected of damaging the unborn child.

H400-Very toxic to aquatic life.

H410-Very toxic to aquatic life with long lasting effects.

Precautionary statements P201-Obtain special instructions before use.

P270-Do not eat, drink or smoke when using this product. P264-Wash hands and face thoroughly after handling.

P280-Wear protective gloves, protective clothing, face protection.

P305+P351+P338+P310-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 or doctor.

P308+P313-IF exposed or concerned: Get medical advice or attention.

2.3 Other hazards

A5100

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

Malachite Green, Oxalate

[Sensitive spectrophotometric

reagent for PO41

Page 1 of 5

SECTION 3: Composition/information on ingredients

3.1 Substances

Components: Malachite Green, Oxalate [Sensitive spectrophotometric reagent for PO4]

Percent: >95.0%(T) 2437-29-8 CAS RN: EC-No: 219-441-7 Synonyms: Basic Green 4 **Chemical Formula:** C52H54N4O12

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

advice/attention

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

Get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get

medical advice/attention.

Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Ingestion:

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

5.2 Special hazards arising from the

substance or mixture

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according 5.3 Advice for firefighters

to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure

to wear personal protective equipment

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc

6.2 Environmental precautions

Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned

6.3 Methods and materials for containment and cleaning up

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible.

Use a local exhaust if dust or aerosol will be generated. Avoid all contact!

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool and dark place. Store locked up. Store away from

incompatible materials such as oxidizing agents.

7.3 Specific end use(s) No further relevant information available.

> Malachite Green, Oxalate [Sensitive spectrophotometric

Page 2 of 5

SECTION 8: Exposure controls/personal protection

8.1 Control parameters No data available

8.2 Exposure controls Install a closed system or local exhaust. Also install safety shower and eye bath.

Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators

approved under appropriate government standards and follow local and national regulations.

Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C): Solid

Form: Crystal - Powder Colour: Green - Deep green Odour: No data available pH: No data available Melting point/freezing point: 164°C (dec.) Boiling point/range: No data available Flash point: No data available Evaporation rate(Butyl Acetate=1): No data available Flammability(solid, gas): No data available

Flammability or explosive limits:

Lower: No data available
Upper: No data available
Vapour pressure: No data available.
Vapour density: No data available
Relative density: No data available

Solubility(ies):

n-octanol/water:

Hand protection:

[Water] Soluble

[Other solvents]

Soluble: Ethanol Insoluble: Xylene Partition coefficient: -0.17

Autoignition temperature: No data available
Decomposition temperature: No data available
Dynamic Viscosity: No data available
Kinematic viscosity: No data available

9.2 Other safety information No data available

SECTION 10: Stability and reactivity

10.1 Reactivity No data available

10.2 Chemical stability Stable under proper conditions.

10.3 Possibility of hazardous reactions No special reactivity has been reported.

10.4 Conditions to avoid No data available10.5 Incompatible materials Oxidizing agents

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

Malachite Green, Oxalate

[Sensitive spectrophotometric

reagent for PO41

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Serious eye damage/irritation:

Acute Toxicity: orl-rat LD50:275 mg/kg

skn-rat LD:>2 g/kg No data available eye-rbt 76 mg/kg SEV No data available

Respiratory or skin sensitization: Germ cell mutagenicity:

Skin corrosion/irritation:

mmo-sat 40 ug/plate (-S9)

Carcinogenicity:

IARC = No data available
NTP = No data available
Reproductive toxicity: No data available
STOT-single exposure: No data available
STOT-repeated exposure: No data available
Aspiration hazard: No data available
RTECS Number: BQ1190000

SECTION 12: Ecological information

12.1 Toxicity

Fish: No data available
Crustacea: No data available
Algae: No data available

12.2 Persistence and degradability 0.3% (by BOD)

12.3 Bioaccumulative potential 36 - 91(conc. 20 ug/L) , 44 - 75(conc.2 ug/L)

12.4 Mobility in soil

Log Pow: -0.17

Soil adsorption (Koc): No data available Henry's Law (PaM ³/mol): No data available

12.5 Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

12.6 Other adverse effects No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. Observe all federal, state and local regulations when disposing of the substance.

Malachite Green, Oxalate

[Sensitive spectrophotometric

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SECTION 14: Transport information

14.1 UN number 2811

14.2 UN proper shipping name

ADR/RID Toxic solid, organic, n.o.s IMDG/IMO Toxic solid, organic, n.o.s ICAO/IATA Toxic solid, organic, n.o.s

14.3 Transport hazard class(es)

ADR/RID 6.1: Toxic substance IMDG/IMO 6.1: Toxic substance ICAO/IATA 6.1: Toxic substance

14.4 Packaging group

ADR/RID Ш Ш IMDG/IMO ICAO/IATA Ш

14.5 Environmental hazards

Marine pollutant

14.6 Special precautions for user No data available

SECTION 15: Regulatory information

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

Substance of Very High Concern (SVHC) according to the Not listed

REACH Regulations (EC) No.1907/2006

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Prepared by: TCI EUROPE N.V. Issue date: 10/02/2018

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet

Page 5 of 5