

# Part of Thermo Fisher Scientific

# SAFETY DATA SHEET

Creation Date 03-Dec-2010 Revision Date 16-Jul-2014 Revision Number 1

1. Identification

Product Name Malachite Green oxalate

Cat No. : M290-25

Synonyms C.I. 42000; Basic Green 4

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Emergency Telephone Number

Fisher Scientific CHEMTREC®, Inside the USA: 800-424-9300
One Reagent Lane CHEMTREC®, Outside the USA: 001-703-527-3887
Fair Lawn, NJ 07410

# 2. Hazard(s) identification

# Classification

Tel: (201) 796-7100

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity

Serious Eye Damage/Eye Irritation

Category 1

Reproductive Toxicity

Category 2

#### **Label Elements**

# Signal Word

Danger

# **Hazard Statements**

Toxic if swallowed
Causes serious eye damage
Suspected of damaging the unborn child



# **Precautionary Statements**

## Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

#### Response

IF exposed or concerned: Get medical attention/advice

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/physician

# Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

### Storage

Store locked up

## **Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Ammonium,	2437-29-8	100
(4-(p-(dimethylamino)alphaphenylbenzylidene)-2,		
5-cyclohexadien-1-ylidene)- dimethyl-, oxalate (2:1),		
oxalate (1:1)		

# 4. First-aid measures

**Eye Contact** Immediate medical attention is required. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if

symptoms occur.

Do not induce vomiting. Call a physician or Poison Control Center immediately. Ingestion

Most important symptoms/effects

Causes eye burns. **Notes to Physician** Treat symptomatically

# 5. Fire-fighting measures

**Suitable Extinguishing Media** Water spray. Carbon dioxide (CO2). Dry chemical. chemical foam.

**Unsuitable Extinguishing Media** No information available

**Flash Point** No information available Method -No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO2)

# **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health Flammability Instability Physical hazards 3 1 0 N/A

# 6. Accidental release measures

Use personal protective equipment. Ensure adequate ventilation. Avoid contact with eyes. **Personal Precautions** 

Avoid dust formation.

**Environmental Precautions** Do not flush into surface water or sanitary sewer system. Keep out of waterways. Avoid

release to the environment. Collect spillage.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust Up

formation.

# 7. Handling and storage

Handling Wear personal protective equipment. Use only under a chemical fume hood. Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands before breaks

and immediately after handling the product.

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

# Exposure controls / personal protection

This product does not contain any hazardous materials with occupational exposure limits **Exposure Guidelines** 

established by the region specific regulatory bodies.

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

**Personal Protective Equipment** 

**Eye/face Protection** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

Skin and body protection **Respiratory Protection** 

Wear appropriate protective gloves and clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

# 9. Physical and chemical properties

**Physical State** Powder Solid **Appearance** Green Odor Odorless

**Odor Threshold** No information available 2 (2 % Solution) pН

164 °C / 327.2 °F **Melting Point/Range Boiling Point/Range** No information available Flash Point No information available **Evaporation Rate** No information available No information available Flammability (solid,gas)

Flammability or explosive limits

Upper No data available Lower No data available **Vapor Pressure** negligible

**Vapor Density** No information available **Relative Density** No information available Solubility No information available

Partition coefficient; n-octanol/water No data available No information available **Autoignition Temperature Decomposition temperature** No information available

**Viscosity** No information available

C23 H25 N2 . 1/2 C2 H2 O4 . C2 H O4 **Molecular Formula** 

**Molecular Weight** 927.03

# 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Stability Stable.

Incompatible products. Avoid dust formation. **Conditions to Avoid** 

**Incompatible Materials** Strong oxidizing agents, Strong bases, Strong reducing agents

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

**Component Information** 

No information available **Toxicologically Synergistic** 

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Causes severe eye irritation and possible burns Irritation

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
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Ammonium,	2437-29-8	Not listed				
(4-(p-(dimethylamino)						
alphaphenylbenzylide						
ne)-2,5-cyclohexadien-						
1-ylidene)- dimethyl-,						
oxalate (2:1), oxalate						
(1:1)						

**Mutagenic Effects** Mutagenic effects have occurred in experimental animals.

**Reproductive Effects** No information available.

May cause harm to the unborn child. **Developmental Effects** 

**Teratogenicity** Teratogenic effects have occurred in experimental animals.

STOT - single exposure None known STOT - repeated exposure None known

No information available **Aspiration hazard** 

Symptoms / effects, both acute and No information available

delayed

No information available.

**Endocrine Disruptor Information** No information available

Other Adverse Effects See actual entry in RTECS for complete information.

# 12. Ecological information

**Ecotoxicity** 

Mobility

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not empty into drains.

Persistence and Degradability No information available **Bioaccumulation/ Accumulation** No information available.

# 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT

**UN-No** UN2811

**Proper Shipping Name** TOXIC SOLID, ORGANIC, N.O.S. (MALACHITE GREEN OXALATE) Proper technical name

**Hazard Class** 6.1 **Packing Group** Ш

**TDG** 

**UN-No** UN2811

TOXIC SOLID, ORGANIC, N.O.S. **Proper Shipping Name** 

**Hazard Class** 6.1 **Packing Group** Ш

**UN-No** 

**Proper Shipping Name** TOXIC SOLID, ORGANIC, N.O.S.\*

**Hazard Class** 6.1 **Packing Group** 

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IMDG/IMO

**UN-No** 2811

Proper Shipping Name TOXIC SOLID, ORGANIC, N.O.S.

Hazard Class 6. Packing Group

# 15. Regulatory information

#### **International Inventories**

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Ammonium,	-	Х	-	219-441-7	-		Х	Χ	Χ	Х	Χ
(4-(p-(dimethylamino)alpha.											
-phenylbenzylidene)-2,5-cycl											
ohexadien-1-ylidene)-											
dimethyl-, oxalate (2:1),											
oxalate (1:1)											

#### Legend:

X - Listed

- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

Clean Water Act Not applicable

Clean Air Act Not applicable

**OSHA** Occupational Safety and Health Administration

Not applicable

**CERCLA** 

Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know Not applicable

**U.S. Department of Transportation** 

Reportable Quantity (RQ): N

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DOT Marine Pollutant N
DOT Severe Marine Pollutant N

# **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

## Other International Regulations

Mexico - Grade No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class
D1B Toxic materials
D2A Very toxic materials

D2B Toxic materials



# 16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific

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Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS)

# Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS**