

Material Safety Data Sheet

Date Printed: 08/01/2000 Date Updated: 01/13/2000 Version 1.20

Section 1 - Product and Company Information

Product Name

MALACHITE GREEN OXALATE, CERTIFIED (C.I. 42000)

Product Number

861219

Brand

Aldrich Chemical

Company

Sigma-Aldrich

Street Address City, State, Zip, Country 3050 Spruce Street St. Louis, MO 63103 US

Technical Phone:

314 771 5765

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414 273 3850 Ext.5996

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Section 2 - Composition/Information on Ingredient

Substance Name

MALACHITE GREEN OXALATE

CAS#

2437-29-8

SARA 313

No

Formula

C26H27N2O6

Synonyms

Malachite Green OxalateAmmonium, (4-(p-(dimethylamino)-alpha-phenylbenzylidene)-dimethyl-,

oxalate (2:1), oxalate (1:1)

Section 3 - Hazards Identification

Emergency Overview

Toxic (USA) Harmful (EU).

Harmful if swallowed. Risk of serious damage to eyes.

HMIS Rating

Health: 2

Flammability: 0

Reactivity: 0

NFPA Ratings

Health: 2

Flammability: 0

Reactivity: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure (SKIN)

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Autoignition Temp:

N/A

Flammability:

N/A

Extinguishing Media

Suitable

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill

Evacuate area.

Procedure(s) of Personal Precaution(s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling

User Exposure

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Suitable

Store in a cool dry place. Keep tightly closed.

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory

NIOSH/MSHA-approved respirator.

Hand

Compatible chemical-resistant gloves.

Eye

Chemical safety goggles.

General Hygiene Measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance

Physical State

Solid

RTECS Number: BQ1190000

Toxicity Data

Oral - Rat: 275 mg/kg (LD50)

Remarks: Behavioral: Change in motor activity (specific assay).

Gastrointestinal: Hypermotility, diarrhea.

Gastrointestinal:Other changes.

Irritation Data

Eyes - Rabbit: 76 mg/kg KG

Remarks: severe irritation effect

Section 12 - Ecological Information

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Proper Shipping Name: None

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: Xn Indication of Danger

Harmful.

Risk Statements

R: 22 41

Harmful if swallowed. Risk of serious damage to eyes.

Safety Statements

S: 26 36/37/39 45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

US Classification and Label Text

Indication of Danger

Toxic (USA) Harmful (EU).

Risk Statements

Harmful if swallowed. Risk of serious damage to eyes.

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

United States Regulatory Information

SARA 313 Listed: No

321.10 ANO
<u>Value</u>
N/A
N/A
144 - 150 °C
N/A

Molecular Weight:

927.10 AMU

Section 10 - Stability and Reactivity

Stability

Stable

Stable.

Materials to Avoid

Oxidizing agents.

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Nitrogen oxides.

Hazardous Polymerization

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

May cause skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eve Contact

Causes severe eye irritation.

Inhalation

Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion

Harmful if swallowed.

Signs and Symptoms of Exposure

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

Section 16 - Other Information

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2000 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.