

SAFETY DATA SHEET

MALACHITE GREEN OXALATE

Catalog Numbers: R-68

Company Identification: ROWLEY BIOCHEMICAL

10 ELECTRONICS AVENUE

DANVERS, MA 01923

for information, call: 978-739-4883

Emergency Number: 800-424-9300

For CHEMTREC assistance, call: 800-424-9300

1. PRODUCT IDENTIFICATION:

Synonyms: C.I. 42000; Acryl Brilliant Green; Aniline Green; China Green; Fast Green; Victoria Green; Basic Green 4.

CAS No.: 2437-29-8

Molecular Weight: 926.3976

Chemical Formula: C₅₂H₅₄N₄O₁₂

2. HAZARDS IDENTIFICATION:

Emergency Overview

Appearance: Green Powder. **DANGER!** Toxic if swallowed. Causes serious eye damage. Causes eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs: None known.

GHS Classification

- Acute toxicity, Oral (Category 3)
- Serious eye damage (Category 1)



Pictogram:

Signal word Danger

Hazard statement(s)

- H301 Toxic if swallowed.
- H318 Causes serious eye damage.

Precautionary statement(s)

- P280 Wear protective gloves/ eye protection/ face protection.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification

Health hazard: 2

Chronic Health Hazard *

Flammability: 0

Physical hazards: 0

NFPA Rating

Health hazard: 2

Fire: 0

Reactivity Hazard: 0

Potential Health Effects

Eyes: May cause eye irritation. May cause chemical conjunctivitis.

Skin: May cause skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this material have not been fully investigated.

Chronic: May cause fetal effects. Effects may be delayed.

3. COMPOSITION, INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Percent</u>	<u>Hazardous</u>
Malachite Green Oxalate	2437-29-8	100%	No

4. FIRST AID MEASURES:

Eyes: Flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Skin: Flush skin with plenty of soap and water.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration.

Notes to Physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES:

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

Extinguishing Media: Use an agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available

6. ACCIDENTAL RELEASE MEASURES:

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment Section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

7. HANDLING AND STORAGE:

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use adequate ventilation. Keep container tightly closed. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Store protected from light.

Storage: Store in a cool, dry, well ventilated area away from incompatible substances. Store in a tightly closed container. Store protected from light.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

<u>Chemical Name</u>	<u>ACGIH</u>	<u>NIOSH</u>	<u>OSHA - Final PEL's</u>
Malachite Green Oxalate	None listed	None listed	None listed

OSHA Vacated PELs: Malachite Green Oxalate: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: 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 EN 166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Powder

Appearance: Green

Odor: Odorless

Freezing/Melting Point: Not available.

pH: Not available.

Vapor Pressure (mm Hg): Not available.

Vapor Density (Air = 1): Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Decomposition Temperature: 164° C

Solubility: Soluble in water.

10. STABILITY AND REACTIVITY:

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Incompatible material, excess heat, dust generation, high temperatures.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide oxides of nitrogen, carbon dioxide.

Hazardous Polymerization: Has not been reported.

11. TOXICOLOGICAL INFORMATION:

RTECS: CAS# 2437-29-8: BQ1190000

LD50/LC50: CAS# 2437-29-8: Draize test, rabbit, eye: 76 mg Severe Oral, rat: LD50 = 275 mg/kg.

Carcinogenicity: CAS# 2437-29-8: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: Reproductive effects have occurred in experimental animals.

Neurotoxicity: No information available.

Mutagenicity: No information available.

Other Studies: See actual entry in RTECS for complete information.

12. ECOLOGICAL INFORMATION:

Environmental Fate: No information available.

Environmental Toxicity: No data available.

13. DISPOSAL CONSIDERATIONS:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

14. TRANSPORT REGULATIONS:

Not regulated.

15. REGULATORY INFORMATION:

US FEDERAL

TSCA

CAS# 2437-29-8 is not listed on the TSCA inventory. For research and development use only.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA**CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 2437-29-8 is not present on state lists from CA, PA, MA, MN, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

EUROPEAN/INTERNATIONAL REGULATIONS**European Labeling in Accordance with EC Directives**

Hazardous Symbols: XN N

Risk Phrases:

R 22 Harmful if swallowed.

R 41 Risk of serious damage to eyes.

R 63 Possible risk of harm to the unborn child.

Safety Phrases:

S 2 Keep out of reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37 Wear suitable protective clothing and gloves.

S 39 Wear eye/face protection

WGK (Water Danger/Protection)

CAS# 2437-29-8: 3

Canada - DSL/NDSL

CAS#2437-29-8 is listed on Canada's DSL List.

Canada - WHMIS

Not available.

CAS#2437-29-8 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 10/15/12

Revision #1. 1/31/14 CF

The information above is believed to be accurate and represents the best information currently available to us.

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