



UNISOURCE CHEMICALS PRIVATE LIMITED

Factory : L-15 MIDC TARAPUR, BOISAR - 401506 DIST. THANE

Tel.: 2205 2250; 2205 0713; Fax: ++91-22-22019990 ;

E-mail: unisourceindia@gmail.com; Web: www.ucplchem.com

BRILLIANT GREEN

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION:

Synonyms: C.I. 42040; Malachite Green G, Ethyl Green, Emerald Green, Diamond Green G, Fast Green J, Solid Green.

CAS No.: 633-03-4

Molecular Weight: 385.2444

Chemical Formula: C₂₇H₃₃N₂.HSO₄

2. COMPOSITION / INFORMATION ON INGREDIENTS:

| <u>Chemical Name</u> | <u>CAS No.</u> | <u>Percent</u> | <u>Hazardous</u> |
|----------------------|----------------|----------------|------------------|
| Brilliant Green | 633-03-4 | 100% | No |

3. HAZARDS IDENTIFICATION:

Emergency Overview

Appearance: Yellow -green to green. **CAUTION!** May cause skin irritation. May cause respiratory and digestive tract irritation. Eye contact may result in permanent eye damage. Hygroscopic (absorbs moisture from the air)

Target Organs: Eyes.

Potential Health Effects

Eyes: This product contains a cationic dye. Similar dyes have cause permanent injury to the cornea and conjunctiva in documented exposure cases with human or rabbit eyes.

Skin: May cause skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this material have not been fully investigated.

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

Chronic: No information found.

4. FIRST AID MEASURES:

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately. **SPEEDY ACTION IS CRITICAL!**

Skin: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothes and shoes. Get medical attention if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls water or milk to drink. **Do NOT** induce vomiting. **NEVER** give anything by mouth to an unconscious person. Get medical attention if irritation or symptoms appear.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Runoff from fire control or dilution water may cause pollution.

Extinguishing Media: In case of fire use water spray to cool fire expose containers. Use water spray, dry chemical, Carbon dioxide, or appropriate foam. Use agent most appropriate to extinguish fire.

Flash Point: Not applicable.

Auto-ignition Temperature: Not applicable.

Explosion Limits, Lower / Upper: Not available.

NFPA Rating: (estimated) Health: 0; Flammability: 0; Instability: 0.

6. ACCIDENTAL RELEASE MEASURES:

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

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

7. HANDLING AND STORAGE:

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Wash clothing before reuse.

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

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> |
|-----------------------------|---------------------|---------------------|----------------------------------|
| Brilliant Green | None listed | None listed | None listed |

OSHA Vacated PELs: Brilliant Green: 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 EN166.

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: Solid

Appearance: Yellow green to green

Odor: None reported.

Freezing/Melting Point: Decomposes

pH: Not available.

Vapor Pressure (mm Hg): Negligible

Vapor Density (Air = 1): 16.6

Evaporation Rate: Negligible.

Viscosity: Not available.

Boiling Point: Not available.

Decomposition Temperature: 210 deg C

Solubility: Moderately soluble in water.

Specific Gravity/Density: Not available.

10. STABILITY AND REACTIVITY:

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

Conditions to Avoid: Incompatible materials, moisture

Incompatibilities with Other Materials: Strong oxidizing agents.

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

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION:

RTECS: CAS# 633-03-4: BP6825000

LD50/LC50: CAS# 633-03-4: Not available.

Carcinogenicity: CAS# 633-03-4: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Neurotoxicity: No information available.

Mutagenicity: No information available.

12. ECOLOGICAL INFORMATION:

Environmental Fate: No information available.

Environmental Toxicity: Terrestrial: High mobility in soil and is likely to leach. Aquatic: Will not adsorb to suspended solids or organic matter. Atmospheric: Remain as particulates and is removed by wet deposition. Will not biodegrade and has a low bio-concentration potential.

Physical: No information available.

Other: No information 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# 633-03-4 is listed on the TSCA inventory.

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.

SARA Codes: CAS# 633-03-4: acute.

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# 633-03-4 can be found on the following state right to know lists: New Jersey, Massachusetts. 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: Not available.

Risk Phrases: Not available.

Safety Phrases:

S 28 After contact with skin, wash immediately with water.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 633-03-4: 2

Canada - DSL/NDSL

CAS# 633-03-4 is listed on Canada's DSL List.

Canada - WHMIS

WHMIS: Not available.

CAS# 633-03-4 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

16. OTHER INFORMATION:

DISCLAIMER:

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