Malachite Green Hydrochloride



Section 1

Product Description

Product Name:Malachite Green HydrochlorideRecommended Use:Science education applications

Synonyms: CI 42000, Benzal Green, Victoria Green, (4-(Alpha-(4-

Dimethylamino)phenyl)benzylidene)cyclohexa-2,5-dien-1-ylidene Dimethylammonium Chloride,

Acryl Brilliant Green B, Astra Malachite Green

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER







Toxic if swallowed. Suspected of damaging fertility or the unborn child. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

GHS Classification:

Hazardous to the aquatic environment - Acute Category 1, Hazardous to the aquatic environment - Chronic Category 1, Reproductive Toxicity Category 2, Acute Toxicity - Oral Category 3

Other Safety Precautions: IF exposed or concerned: Get medical advice/attention.

Section 3

Composition / Information on Ingredients

Chemical NameCAS #%Malachite Green Hydrochloride569-64-2100

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

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

Skin Contact: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of

water.

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

Section 5

Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Nitrogen containing gases, Hydrogen chloride

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including: the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Collect spillage.

Section 7

Handling and Storage

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Handling:

Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Avoid release to the

environment. Use personal protective equipment as required.

N/A

Storage: Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8

Protection Information

ACGIH OSHA PEL (TWA) (STEL) (TWA) (STEL) N/A N/A N/A

Control Parameters

Respirator Type(s):

Malachite Green Hydrochloride

Chemical Name

Engineering Measures: No exposure limits exist for the constituents of this product. Use local exhaust ventilation

or other engineering controls to minimize exposures and maintain operator comfort.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this

> product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective **Skin Protection:**

> equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: Butyl rubber, Neoprene, Nitrile, Polyvinyl chloride

Section 9

Physical Data

Formula: C23H25CIN2 Molecular Weight: 364.91 Appearance: Metallic Green Solid

Odor: No data available

Odor Threshold: No data available

pH: 1.4 (1% solution)

Melting Point: No data available Boiling Point: No data available Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: No data available Solubility in Water: Slightly Soluble

Log Pow (calculated): 0.62

Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available

Percent Volatile by Volume: No data available

Section 10

Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Elevated temperatures **Incompatible Materials:** Strong oxidizing agents

Hazardous Decomposition Products: Hydrogen chloride, Nitrogen containing gases, Carbon dioxide, Carbon monoxide

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Gastrointestinal,
Delayed Effects: None Known

Acute Toxicity:

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Malachite Green Hydrochloride569-64-2Oral LD50 MouseNot determinedNot determined

80 mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAMalachite Green Hydrochloride569-64-2Not listedNot listedNot listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: Evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: Evidence of negative reproductive effects.

Target Organ Effects:

Acute: Bladder Chronic: Bladder

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: This material is expected to have moderate mobility in soil. It absorbs to most soil types.

Persistence: Biodegradation, Dissolved into water

Bioaccumulation: Bioconcentration may occur.

Degradability: Biodegrades quickly.

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

Malachite Green Hydrochloride 569-64-2

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

UN2811 UN2811

Toxic Solid, Organic, n.o.s.

(Malachite Green Hydrochloride)

Toxic Solid, Organic, n.o.s.

(Malachite Green Hydrochloride)

Division 6.1 Division 6.1 P.G. III P.G. III

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

Malachite Green Hydrochloride 569-64-2 C.I. Basic No No No No

Green 4

California Prop 65: No California Proposition 65 ingredients

Section 16	Additional
	Information

Revised: 08/21/2018 Replaces: 06/15/2018 Printed: 08-24-2018

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

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ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health