Safety Data Sheet



Issuing Date 31-Aug-2009 Revision Date 08-Sep-2011 Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Name Malachite Green

Product Code(s) 0186

Recommended Use For Further Manufacturing Use Only

Not for Human or Animal Drug Use

Recommended Use Bacterial stain also used as counterstain in plant pathology

Synonyms
Company
AMRESCO, LLC
6681 Cochran Road
Solon, Ohio 44139

MALACHITE GREEN OXALATE *

Emergency Telephone Number Chemtrec 1-800-424-9300

Company Phone Number E-mail Address

1-800-448-4442

info@amresco-inc.com

2. HAZARDS IDENTIFICATION

GHS - Classification

Classification Acute Toxicity Oral 3 Toxic to Reproduction 2 Serious Eye Damage/Irritation 1

Skin Irritant 2 Aquatic Hazard (acute) 1

Signal Word Danger









Hazard Statements H301 - Toxic if swallowed H361 - Suspected of damaging fertility or the unborn

child H318 - Causes serious eye damage H315 - Causes skin irritation H335 -

May cause respiratory irritation H400 - Very toxic to aquatic life

Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P308 + P313 - IF exposed or concerned: Get medical attention/advice P273 - Avoid release to the environment

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Ammonium,	EEC No. 219-441-7	Not available	2437-29-8	95-100	Xn; R22
(4-(p-(dimethylamino)alpha					Xi; R41
phenylbenzylidene)-2,5-cycloh					N; R50-53
exadien-1-ylidene)- dimethyl-,					Repr.Cat.3; R63
oxalate (2:1), oxalate (1:1)					

FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated

clothes and shoes.

Inhalation Move to fresh air. If breathing becomes difficult, give oxygen.

Ingestion Clean mouth with water and afterwards drink plenty of water. Consult a physician.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable.

Flash Point Not determined

Suitable Extinguishing Media Dry chemical, CO2, water spray or regular foam.

Hazardous Combustion ProductsCarbon oxides, Nitrogen oxides (NOx).

Explosion Data

Sensitivity to Mechanical ImpactNot sensitive.Sensitivity to Static DischargeNot sensitive.

Protective Equipment and Precautions for FirefightersAs in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent) and

full protective gear.

ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure

adequate ventilation.

Prevent further leakage or spillage if safe to do so. **Methods for Containment**

Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area **Methods for Cleaning Up**

and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice.

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

Incompatible Products Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Showers **Engineering Measures**

> Evewash stations Ventilation systems.

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles. **Skin and Body Protection** Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Dark green

No information available Odor **Odor Threshold** No information available **Decomposition Temperature °C** No information available No information available **Freezing Point Initial Boiling Point** No information available **Physical State** Crystalline Powder No data available На Not determined **Flash Point** No data available **Autoignition Temperature Boiling Point/Range** No data available

Melting Point/Range 144-150 °C Flammability Limits in Air **Upper** No data available

Explosive Properties No information available No information available

Oxidizing Properties Evaporation Rate No data available MMHG @ 37.8 C No data available **Vapor Density** No data available **Specific Gravity** No data available Solubility No information available No data available

Partition Coefficient

(n-octanol/water)

Viscosity No information available Lower No data available

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible Products Strong oxidizing agents.

Conditions to Avoid None known based on information supplied.

Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx).

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Toxic if swallowed. Risk of serious damage to eyes. Causes skin irritation. Material may be

irritating to mucous membranes and upper respiratory tract.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium,	275 mg/kg (Rat)		
(4-(p-(dimethylamino)alphapheny			
lbenzylidene)-2,5-cyclohexadien-1-y			
lidene)- dimethyl-, oxalate (2:1),			
oxalate (1:1)			

Chronic Toxicity

Chronic Toxicity Contains a known or suspected reproductive toxin.

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations.

14. TRANSPORT INFORMATION

IATA

<u>U</u>N-No 2811

Proper Shipping Name TOXIC SOLID, ORGANIC, N.O.S. (CONTAINING MALACHITE GREEN

OXALATE

Hazard Class 6.1 Packing Group III

DOT

Proper Shipping Name TOXIC SOLID, ORGANIC, N.O.S. (CONTAINING MALACHITE GREEN

OXALATE

Hazard Class 6.1 UN-No 2811 Packing Group III

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

Chemical Name	Dangerous Substances	Organic Solvents		Harmful Substances Whose Names Are to be Indicated on the Label		Pollution Release and Transfer Registry (Class II):		Pollution Release and Transfer Registry (Clas I):	Substances
Ammonium, (4-(p-(dimethylamino)a lphaphenylbenzylidene)-2,5-cyclohexadien-1-yl idene)- dimethyl-, oxalate (2:1), oxalate (1:1)	Not applicable	Not	applicable	Not ap	plicable	Not applic	able	Not applicable	e Not applicable
Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying		ISHA - Harmful Substances Requiring Permission		Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals		Toxic Release Inventory (TRI) - I Group I		Toxic Release Inventory (TRI) - Group II
Ammonium, (4-(p-(dimethylamino)al haphenylbenzylidene)-2 5-cyclohexadien-1-ylidene - dimethyl-, oxalate (2:1) oxalate (1:1) 2437-29-8 (95-100)	Not applicate		Not appli	cable	Not a	pplicable	No	t applicable	Not applicable

International Inventories

TSCA Does not Comply
EINECS/ELINCS Complies
ENCS Complies
IECSC Complies
KECL Does not Comply

PICCS Complies AICS Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico - Grade No information available.

Canada

WHMIS Hazard Class

D1B Toxic materials D2A Very toxic materials E Corrosive material





16. OTHER INFORMATION

Issuing Date 31-Aug-2009

Revision Date 08-Sep-2011

Revision Note

No information available

Recommended Restrictions No information available

Disclaimer

The information provided on this MSDS 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 MSDS