

SAFETY DATA SHEET

Creation Date 03-Dec-2010	Revision Date 16-Jul-2014	Revision Number 1
	1. Identification	
Product Name	Malachite Green oxalate	
Cat No. :	AC229780000; AC229780250;	AC229781000; AC229785000
Synonyms	C.I. 42000; Basic Green 4	
Recommended Use	Laboratory chemicals.	
Uses advised against Details of the supplier of the saf	No Information available ety data sheet	
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity
Serious Eye Damage/Eye Irritation
Reproductive Toxicity

Category 3 Category 1 Category 2 CHEMTREC Tel. No.US:001-800-424-9300 /

Europe:001-703-527-3887

Label Elements

Signal Word Danger

Hazard Statements

Toxic if swallowed Causes serious eye damage Suspected of damaging the unborn child



Precautionary Statements

Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Response IF exposed or concerned: Get medical attention/advice Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Storage Store locked up Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Ammonium,	2437-29-8	100
(4-(p-(dimethylamino)alphaphenylbenzylidene)-2,		
5-cyclohexadien-1-ylidene)- dimethyl-, oxalate (2:1),		
oxalate (1:1)		

	4. First-aid measures
Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Most important symptoms/effects Notes to Physician	Causes eye burns. Treat symptomatically
	5. Fire-fighting measures
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature	No information available
Explosion Limits Upper Lower	No data available No data available

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO₂)

Protective Equipment and Precautions for Firefighters

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

<u>NFPA</u> Health 3	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions		uipment. Ensure adequate vent	ilation. Avoid contact with eyes.
Environmental Precautions	Avoid dust formation. Do not flush into surface wa release to the environment.	ter or sanitary sewer system. K Collect spillage.	Keep out of waterways. Avoid
Methods for Containment and Clea Up	In Sweep up or vacuum up sp formation.	illage and collect in suitable cor	ntainer for disposal. Avoid dust
	7. Handling a	and storage	
Handling	Wear personal protective ed with skin and eyes. Avoid de and immediately after hand	ust formation. Do not breathe d	emical fume hood. Avoid contact ust. Wash hands before breaks
Storage	Keep in a dry, cool and well	-ventilated place. Keep contain	er tightly closed.
8. E	xposure controls /	personal protectio	n
Exposure Guidelines	This product does not conta established by the region sp	iin any hazardous materials wit becific regulatory bodies.	h occupational exposure limits
Engineering Measures		n, especially in confined areas. se to the workstation location.	Ensure that eyewash stations
Personal Protective Equipment Eye/face Protection		e eyeglasses or chemical safety ction regulations in 29 CFR 191	
Skin and body protection Respiratory Protection	Follow the OSHA respirator EN 149. Use a NIOSH/MSH	e gloves and clothing to prevent regulations found in 29 CFR 1 IA or European Standard EN 1 ed or if irritation or other sympto	910.134 or European Standard 49 approved respirator if
Hygiene Measures		good industrial hygiene and saf	
	9. Physical and che	emical properties	
Physical State	Р	owder Solid	

	3 1 1
Physical State	Powder Solid
Appearance	Green
Odor	Odorless
Odor Threshold	No information available
рН	2 (2 % Solution)
Melting Point/Range	164 °C / 327.2 °F

Malachite Green oxalate

Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density Relative Density Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition temperature** Viscosity **Molecular Formula Molecular Weight**

Revision Date 16-Jul-2014

No information available No information available No data available No data available negligible No information available No information available No information available No data available No information available No information available No information available C23 H25 N2 . 1/2 C2 H2 O4 . C2 H O4 927.03

No information available

No information available

10. Stability and reactivity

Reactive Hazard None known, based on information available		
Stability	Stable.	
Conditions to Avoid	Incompatible products. Avoid dust formation.	
Incompatible Materials	Strong oxidizing agents, Strong bases, Strong reducing agents	
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	
	11. Toxicological information	

Acute Toxicity

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Ammonium, (4-(p-(dimethylamino) alphaphenylbenzylide ne)-2,5-cyclohexadien- 1-ylidene)- dimethyl-,	2437-29-8	Not listed	Not listed	Not listed	Not listed	Not listed
oxalate (2:1), oxalate (1:1) Mutagenic Effects		Mutagenic effects	have occurred in e	experimental anima	lls.	

Mutagenic Effects

Reproductive Effects

No information available.

Developmental Effects	May cause harm to the unborn child.
Teratogenicity	Teratogenic effects have occurred in experimental animals.
STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not empty into drains.

Persistence and Degradability	No information available
Bioaccumulation/Accumulation	No information available.
Mobility	No information available.

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information			
DOT	DOT		
UN-No	UN2811		
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.		
Proper technical name	(MALACHITE GREEN OXALATE)		
Hazard Class	6.1		
Packing Group	111		
TDG			
UN-No	UN2811		
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.		
Hazard Class	6.1		
Packing Group	111		
IATA			
UN-No	2811		
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.*		
Hazard Class	6.1		
Packing Group	111		
IMDG/IMO			
UN-No	2811		
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.		
Hazard Class	6.1		
Packing Group			
15. Regulatory information			

International Inventories

Component TSCA DSL NDSL EINECS ELINCS NLP PICCS ENCS AICS IECSC	KECL
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Ammonium,	-	Х	-	219-441-7	-	Х	Х	Х	Х	Х
(4-(p-(dimethylamino)alpha.										
-phenylbenzylidene)-2,5-cycl										
ohexadien-1-ylidene)-										
dimethyl-, oxalate (2:1),										
oxalate (1:1)										

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable

SARA 311/312 Hazardous Ca Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Press Reactive Hazard	J	Yes Yes No No No
Clean Water Act	Not applicable	

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

State Right-to-Know Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class	D1B Toxic materials D2A Very toxic materials D2B Toxic materials
	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	03-Dec-2010 16-Jul-2014 16-Jul-2014 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet 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 SDS