

# SAFETY DATA SHEET

Creation Date 07-Aug-2014

Revision Date 18-Jan-2018

**Revision Number** 3

# 1. Identification Product Name Malachite Green (Technical) Cat No. : A779-500 Synonyms Acryl Brilliant Green; Aniline Green; China Green Recommended Use Laboratory chemicals. Uses advised against Not for food, drug, pesticide or biocidal product use Details of the supplier of the safety data sheet Company

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

#### **Emergency Telephone Number**

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

# 2. Hazard(s) identification

#### Classification

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

Acute oral toxicity	Category 4
Serious Eye Damage/Eye Irritation	Category 1
Reproductive Toxicity	Category 2

Label Elements

Signal Word Danger

# Hazard Statements

Harmful 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: Call a POISON CENTER or doctor/physician if you feel unwell 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 %					
Malachite green		569-64-2	100					
4. First-aid measures								
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.							
Skin Contact	Wash off imr symptoms or	nediately with plenty of water for at least cour.	t 15 minutes. Get medical attention if					
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain medical attention.							
Ingestion	Do not induc	e vomiting. Call a physician or Poison C	ontrol Center immediately.					
Most important symptoms and	Causes eye	burns.						
effects Notes to Physician	Treat symptomatically							
	5. Fi	re-fighting measures						
Suitable Extinguishing Media	Use water sp	ray, alcohol-resistant foam, dry chemica	al or carbon dioxide.					
Unsuitable Extinguishing Media	No information	on available						
Flash Point Method -	No information available No information available							
Autoignition Temperature	No information	on available						
Explosion Limits Upper Lower	No data avai No data avai							

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

# Specific Hazards Arising from the Chemical

Fine dust dispersed in air may ignite. 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**

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NOx)

### 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	Flammability	Instability	Physical hazards							
	2	1	0	N/A							
	6. Accidental release measures										
Personal	Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing.										
Environm	ental Precautions	Should not be released into	the environment.								
Methods f Up	or Containment and Cle	ean Sweep up or vacuum up sp formation.	illage and collect in suitable cor	ntainer for disposal. Avoid dust							
		7. Handling a	and storage								
Handling			quipment. Ensure adequate ver es and clothing. Avoid ingestion								
Storage		Keep containers tightly clos	ed in a dry, cool and well-ventil	ated place.							
	8. I	Exposure controls /	personal protectio	n							
Exposure	Guidelines	This product does not conta limitsestablished by the reg	ain any hazardous materials wit ion specific regulatory bodies.	h occupational exposure							
Engineeri	ng Measures		n, especially in confined areas. se to the workstation location.	Ensure that eyewash stations							
Personal	Protective Equipment										
Eye/fa	ce Protection		e eyeglasses or chemical safety ction regulations in 29 CFR 191								
Skin a	nd body protection	Wear appropriate protective	e gloves and clothing to prevent	skin exposure.							
Respi	ratory Protection	EN 149. Use a NIOSH/MSH	regulations found in 29 CFR 1 HA or European Standard EN 1 ed or if irritation or other sympto	49 approved respirator if							
Hygie	ne Measures	Handle in accordance with	good industrial hygiene and saf	ety practice.							
		9. Physical and che									
Physical S Appearan		-	Solid Brown								

# Malachite Green (Technical)

Odorless No information available No information available No data available Not applicable No information available No information available No information available No data available No data available No information available No information available No information available Soluble in water No data available No information available No information available No information available C23H25N2CI 364.92

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NOx)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Informa Toxicologically Synd Products Delayed and immed	tion ergistic	No acute toxicity information is available for this product No information available well as chronic effects from short and long-term exposure								
Irritation		Severe eye irritant								
Sensitization		No information available								
Carcinogenicity		The table below in	dicates whether ea	ach agency has lis	ted any ingredient	as a carcinogen.				
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico				
Malachite green	569-64-2	Not listed	Not listed Not listed Not listed Not listed Not listed							
Mutagania Effecto		No information av	nilahla							

	Malachite green	569-64-2	Not listed	Not listed	Not listed	Not listed	Not listed
ĺ	Mutagenic Effects		No information ava	ailable			
	•						
	Reproductive Effect	s	No information ava	ailable.			
	•						
	Developmental Effe	cts	No information ava	ailable.			
	•						

Teratogenicity	No information available.
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	The toxicological properties have not been fully investigated.

# 12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and Degradability	No information available
<b>Bioaccumulation/ Accumulation</b>	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	Not regulated
DOT TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

All of the components in the product are on the following Inventory lists: Australia X = listed China Canada Europe TSCA Korea Philippines Japan

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Malachite green	Х	Х	-	209-322-8	-		Х	Х	Х	Х	Х

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

Component		CAS-No	Weight %	SARA 313 - Threshold Values %		
Malachite green		569-64-2	100	1.0		
SARA 311/312 Hazard Categories	See section 2	for more information				
CWA (Clean Water Act)	Not applicable					
Clean Air Act	Not applicable					
<b>OSHA</b> Occupational Safety and Heal Not applicable	th Administration	I				
CERCLA	Not applicable					
California Proposition 65	This product d	oes not contain any Propo	osition 65 chemicals			
U.S. State Right-to-Know						

#### U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Malachite green	Х	Х	Х	-	-

## 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	
	16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com	
Creation Date Revision Date Print Date Revision Summary	07-Aug-2014 18-Jan-2018 18-Jan-2018 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 in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS