

SAFETY DATA SHEET

Creation Date 07-Aug-2014

Revision Date 24-Dec-2021

Revision Number 4

1. Identification

Product	Name
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Malachite Green (Technical)

Cat No. : A779-500

Synonyms	Acryl Brilliant Green; Aniline Green; China Green
Recommended Use	Laboratory chemicals.
Uses advised against	Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific Company 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	
Combustible dust	Yes	

Label Elements

Signal Word Danger

Hazard Statements

May form combustible dust concentrations in air 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

Indestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

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			
General Advice	If symptoms persist, call a physician.		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.		
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.		
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.		
Most important symptoms and	Causes eye burns. Causes severe eye damage.		
effects Notes to Physician	Treat symptomatically		

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t 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. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). 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.

NFPA Healt 2	h	Flammability 1	Instability 0	Physical hazards N/A	
	6.	Accidental release	measures		
Personal Precaut		e personal protective equipment a mation.	as required. Ensure adequate	e ventilation. Avoid dust	
Environmental Pr	cor	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.			
Methods for Cont Up		eep up and shovel into suitable ontainers for disposal.	ontainers for disposal. Keep	in suitable, closed	
		7. Handling and st	_		
Handling		ear personal protective equipmen st formation. Avoid ingestion and			
Storage.		Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.			
	8. Expo	osure controls / pers	onal protection		
Exposure Guideli		s product does not contain any h itsestablished by the region spec		pational exposure	
Engineering Meas		sure adequate ventilation, especi d safety showers are close to the		e that eyewash stations	
Personal Protecti	ve Equipment				

Eye/face Protection	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 and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Physical State	Solid
Appearance	Brown
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	Not applicable
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C23H25N2CI
Molecular Weight	364.92
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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 ₂), Nitrogen oxides (NOx)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information

Toxicologically Syne Products Delayed and immedia	-	No information ava		nd long-term expo	sure_	
rritation		Severe eye irritant				
Sensitization		No information available				
Carcinogenicity		The table below in	dicates whether e	ach agency has list	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
Autagenic Effects		No information ava	ailable			
Reproductive Effects	\$	No information ava	ailable.			
Developmental Effect	ts	No information ava	ailable.			
Feratogenicity		No information ava	ailable.			
STOT - single exposu STOT - repeated expo		None known None known				
Aspiration hazard		No information ava	ailable			
Symptoms / effects,I delayed	both acute and	No information ava	ailable			
Endocrine Disruptor	Information	No information ava	ailable			
Other Adverse Effect	ts	The toxicological properties have not been fully investigated.				
		12. Ecol	ogical infor	mation		
<u>Ecotoxicity</u> Very toxic to aquatic of substances which are			erse effects in the	aquatic environme	ent. The product co	ontains following
		lity Soluble in water Persistence is unlikely based on information available.				
Persistence and Deg	radability	Soluble in water P	ersistence is unlik	ely based on inform	nation available.	
-	-	Soluble in water P No information ava		ely based on inforn	nation available.	
Bioaccumulation/ Ac	-	No information ava	ailable.	ely based on inforn ent due to its water		
Bioaccumulation/ Ac	cumulation	No information ava Will likely be mobil 13. Dispo	ailable. e in the environm sal conside	ent due to its water	solubility.	
Persistence and Deg Bioaccumulation/ Ac Mobility Waste Disposal Meth	cumulation	No information ava Will likely be mobil 13. Dispo Chemical waste ge hazardous waste.	ailable. e in the environment sal conside enerators must de Chemical waste g	ent due to its water	solubility. discarded chemica so consult local, rea	gional, and
Bioaccumulation/ Ac	cumulation	No information ava Will likely be mobil 13. Dispo Chemical waste ge hazardous waste. national hazardous 14. Tran	ailable. e in the environment sal conside enerators must de Chemical waste g	ent due to its water erations termine whether a generators must als s to ensure comple	solubility. discarded chemica so consult local, rea	gional, and
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			Active-Inactive	Flags
Malachite green	569-64-2	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Malachite green	569-64-2	Х	-	209-322-8	Х	Х	Х	Х	Х	KE-06976

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

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				
OSHA - Occupational Safety and Health Administration	Not applicable				
CERCLA	Not applicable				
California Proposition 65	This product does	s not contain any Prop	position 65 chemicals.		
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): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

Component		REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	U (
Malachite green	-	Use restricted. See item 75.	-
		(see link for restriction details)	

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Malachite green	569-64-2	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Malachite green	569-64-2	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific			
	Email: EMSDS.RA@thermofisher.com			
Creation Date	07-Aug-2014			
Revision Date	24-Dec-2021			
Print Date	24-Dec-2021 This desument has been undeted to comply with the US OSUA HerCom 2012 Standard			
Revision Summary	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