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#### **SECTION 1 - CHEMICAL IDENTIFICATION**

PRODUCT NAME: Malachite Green, Oxalate Salt (Basic Green 4 N, N, N', N'-Tetramethyl-4, 4'-

Diaminotriphenylcarbenium oxalate)

RPI CATALOG #: M92200

SUPPLIER'S NAME: Research Products International Corp.

SUPPLIERS ADDRESS: 410 N Business Center Drive Mount Prospect, Il 60056

EMERGENCY CONTACT: 1-800-424-9300 OTHER INFORMATION: 847-635-7330

## **SECTION 2 - HAZARDS IDENTIFICATION**

# 2.1 Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H301	Acute toxicity, oral	Category 3
H318	Serious eye damage	Category 1
H361	Reproductive toxicity	Category 2
H400	Hazardous to the aquatic environment, acute hazard	Category 1
H410	Hazardous to the aquatic environment, long term hazard	Category 1

# 2.2 GHS Label elements, including Hazard and Precautionary Statement(s)

## **Pictogram**









# Signal word: Danger Hazard statement(s)

H301	Toxic if swallowed
H318	Causes serious eye damage
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects.

# Prevention, Response, Storage and Disposal Precautionary Statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product.

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P273	Avoid release to the environment
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Call a POISON CENTER or doctor/physician.
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 advice/ attention.
P310	Immediately call a POISON CENTER or doctor/ physician
P321	Specific treatment (see. on this label).
P330	Rinse mouth.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

## **SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS**

CAS Number: 2437-29-8 EINECS Number: 219-441-7

Formula C23H25N2 · C2HO4 · 0.5C2H2O4

Molecular Weight 463.50 g/mol

## **SECTION 4 - FIRST-AID MEASURES**

## 4.1 Description of first aid measures

General advice: Consult a doctor and show this safety data sheet.

- i. **If inhaled:** Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
- ii. **In case of skin contact:** Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
- iii. **In case of eye contact:** Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
- iv. **If swallowed:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.
- **4.2 Most important symptoms and effects, both acute and delayed:** To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
- **4.3 Indication of immediate medical attention and special treatment needed:** Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

## **SECTION 5 - FIRE FIGHTING MEASURES**

## 5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or mixture: No data available.

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- **5.3 Precautions for fire-fighters:** Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.
- 5.4 Further information: No data available

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

- **6.1 Personal precautions, protective equipment and emergency procedures:** Do not take action without suitable protective clothing see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.
- **6.2 Environmental precautions:** Do not let product enter drains.
- **6.3 Methods and materials for containment and cleaning up:** Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.
- **6.4 Reference to other sections:** For required PPE see section 8. For disposal see section 13.

#### **SECTION 7 - HANDLING AND STORAGE**

- **7.1 Precautions for safe handling:** Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.
- **7.2 Conditions for safe storage, including any incompatibilities:** Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Keep in a dry place. Store at room temperature.
- **7.3** Specific end use(s): Apart from the uses mentioned in section 1 no other specific uses are stipulated.

#### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.

## 8.2 Exposure Controls

i. **Appropriate engineering controls:** General industrial hygiene practice.

## 8.3 Personal protective equipment

- i. **Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- ii. **Skin 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
- iii. **Body Protection:** Wear appropriate protective clothing. Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- iv. **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 EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- v. Control of environmental exposure: Do not let product enter drains

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#### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

## Information on basic physical and chemical properties

Appearance	Solid	Vapor Pressure	No Data Available
Odor	No Data Available	Vapor Density	No Data Available
Odor Threshold	No Data Available	Relative Density	No Data Available
рН	No Data Available	Water Solubility	No Data Available
Melting / Freezing Point	No Data Available	Partition Coefficient	No Data Available
Initial Boiling Point Range	No Data Available	Auto-Ignition Temperature	No Data Available
Flash Point	No Data Available	Decomposition Temperature	164 °C
Evaporation Rate	No Data Available	Viscosity	No Data Available
Flammability (Solid, Gas)	No Data Available	Explosive Properties	No Data Available
Upper / Lower Flammability Or Explosive Limits	No Data Available	Oxidizing Properties	No Data Available

## **SECTION 10 - STABILITY AND REACTIVITY**

**Stability:** Stable under recommended storage conditions.

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions. - Carbon

oxides, Nitrogen oxides (NOx).

Hazardous Polymerization: No Data Available.

Incompatibilities: Oxidizing agents.

# **SECTION 11 - TOXICOLOGICAL INFORMATION**

#### **Acute Toxicity**

LD50 Oral	LD50 Dermal	LD50 Inhalation	LD50 Intraperitoneal
275 mg/kg (Rat)	Not Listed	Not Listed	Not Listed

## **SECTION 12 - ECOLOGICAL INFORMATION**

**Eco Toxicity:** Do not empty into drains.

Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates		
LC50 - Ictalurus punctatus - 0.14 mg/l - 96.0 h	EC50 - Daphnia magna (Water flea) - 0.29 mg/l - 48 h		

Persistence and degradability/ Bioaccumlative potential/ Mobility in soil: No data available

Results of PBT and vPvB assessment: No data available

Other adverse effects: No data available

**Chronic Toxicity:** There are no known carcinogenic chemicals in this product

# **SECTION 13 - DISPOSAL CONSIDERATIONS**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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## **SECTION 14 - TRANSPORT INFORMATION**

	UN#	Proper Shipping Name	Hazard Class	Packaging Group
DOT	2811	Toxic solid, organic, N.O.S. (Bis[[4-[4- (dimethylamino)benzhydrylidene]cyclohexa-2,5- dien-1ylidene]dimethylammonium] oxalate)	6.1	III
TDG	2811	Toxic solid, organic, N.O.S. (Bis[[4-[4- (dimethylamino)benzhydrylidene]cyclohexa-2,5- dien-1ylidene]dimethylammonium] oxalate)	6.1	III
IATA	2811	Toxic solid, organic, N.O.S. (Bis[[4-[4- (dimethylamino)benzhydrylidene]cyclohexa-2,5- dien-1ylidene]dimethylammonium] oxalate)	6.1	III
IMDG/IMO	Toxic solid, organic, N.O.S. (Bis[[4-[4-(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1ylidene]dimethylammonium] oxalate)		6.1	III

## **SECTION 15 - REGULATORY INFORMATION**

## **INTERNATIONAL INVENTORIES**

TSCA	DSL	NDSL	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Listed	Listed	-	-	-	Listed	Listed	Listed	Listed	Listed

#### **USA FEDERAL REGULATION**

# **SARA 311/312 HAZARDOUS CATEGORIZATION**

Acute Health	Chronic Health	Fire Hazard	Sudden Release Of	Reactive
Hazard	Hazard		Pressure Hazard	Hazard
Yes	Yes	No	No	No

SARA 313 HAZARDOUS CATEGORIZATION: Not Applicable

Clean Water Act/ Clean Air Act: No Data Available TSCA 12(b)/ OSHA/ CERCLA: Not Applicable

California Proposition 65: This product does not contain any Proposition 65 chemicals.

# **HMIS RATING**

Health hazard Chronic Health Hazard		Flammability	Physical Hazard			
2	*	1	0			

# **NFPA RATING**

Health hazard Fire Hazard		Reactivity Hazard
2	0	0

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#### **STATE RIGHT TO KNOW**

Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
-	Listed	Listed	-	-

#### **US DEPARTMENT OF TRANSPORTATION**

REPORTABLE QUANTITY (RQ)	DOT MARINE POLLUTANT	DOT SEVER MARINE POLLUTANT	
No	No	No	

#### U.S. DEPARTMENT OF HOMELAND SECURITY: This product does not contain any DHS chemicals.

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

This SDS complies with the requirements of Regulation (EC).

# **SECTION 16 - OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Research Products International Corp. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. This product is sold for laboratory research and development purposes use only.