# Hucker Ammonium Oxalate Crystal Violet

# CAROLINA® www.carolina.com

### Section 1

### **Product Description**

Product Name: Recommended Use: Synonyms: Distributor: Hucker Ammonium Oxalate Crystal Violet Science education applications Hucker Formulation Gentian Violet Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

### **Hazard Identification**

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



Section 2



Flammable liquid and vapor. Causes serious eye damage. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Toxic to aquatic life.

#### **GHS Classification:**

Serious Eye Damage/Eye Irritation Category 1, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Hazardous to the aquatic environment - Acute Category 2, Flammable Liquid Category 3

**Other Safety Precautions:** 

IF exposed or concerned: Get medical advice/attention.

### Section 3 Compose

### **Composition / Information on Ingredients**

Chemical Name	<u>CAS #</u>	<u>%</u> 77 0	
Water	7732-18-5	77.2	
Ethanol	64-17-5	17.2	
Crystal Violet	548-62-9	3	
2-Propanol	67-63-0	0.95	
Methanol	67-56-1	0.86	
Ammonium Oxalate, Monohydrate	6009-70-7	0.8	

### **Section 4**

### **First Aid Measures**

Emergency and Firs	st Aid Procedures
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### Section 5

Firefighting Procedures

Extinguishing Media: Fire Fighting Methods and Protection: Use dry chemical, CO2 or appropriate foam. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Fire and/or Explosion Hazards: Hazardous Combustion Products: Fire or excessive heat may produce hazardous decomposition products. Carbon dioxide, Carbon monoxide

Section 6	Spill or Leak Procedures	

Steps to Take in Case Material Is<br/>Released or Spilled:No health affects expected from the clean-up of this material if contact can be avoided.<br/>Follow personal protective equipment recommendations found in Section 8 of this (M)SDS<br/>Exposure to the spilled material may be irritating or harmful. Follow personal protective<br/>equipment recommendations found in Section 8 of this SDS. Additional precautions may be<br/>necessary based on special circumstances created by the spill including; the material spilled,<br/>the quantity of the spill, the area in which the spill occurred. Also consider the expertise of<br/>employees in the area responding to the spill. Ventilate the contaminated area. Evaporation<br/>of volatile substances can lead to the displacement of air creating an environment that can<br/>cause asphyxiation. Isolate area. Keep unnecessary personnel away.<br/>Ventilate the area by opening door and/or turning on fans and blowers. Use an inert<br/>absorbent such as sand or vermiculite. Place in properly labeled closed container.

### **Section 7**

### Handling and Storage

Handling:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed.
	Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting//
	equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid release
	to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal
	protective equipment as required.
Storage:	Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Suitable for any
	general chemical storage.
Ctown we Code.	Ded. Elementales. Otava in annuous difference bla containers. Otava avecutives avidining materials

Storage Code: Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

### **Section 8**

### **Protection Information**

	ACO	<u>SIH</u>	OSHA PEL		
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>	
Ethanol	N/A	1000 ppm STEL	1000 ppm TWA;	N/A	
			1900 mg/m3 TWA		
Crystal Violet	N/A	N/A	N/A	N/A	
2-Propanol	200 ppm TWA	400 ppm STEL	400 ppm TWA; 980 mg/m3 TWA	N/A	
Methanol	200 ppm TWA	250 ppm STEL	200 ppm TWA; 260 mg/m3 TWA	N/A	
Ammonium Oxalate, Monohydrate	N/A	N/A	N/A	N/A	

handling or using this product to avoid overexposure.

Lab coat, apron, eye wash, safety shower.

respirator is not normally required.

available.

work.

Nitrile

#### Control Parameters Engineering Measures:

Personal Protective Equipment (PPE): Respiratory Protection:

Respirator Type(s):

Eye Protection:

**Skin Protection:** 

#### Gloves:

Section 9

### **Physical Data**

Formula: See Section 3 Molecular Weight: No data available Appearance: Colorless Purple Liquid Vapor Pressure: No data available Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available

Local exhaust ventilation or other engineering controls are normally required when

No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Wear chemical splash goggles when handling this product. Have an eye wash station

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

Odor: Moderate Alcohol Odor Odor Threshold: No data available pH: No data available Melting Point: Estimated -9 C Boiling Point: No data available Flash Point: Estimated 36 C Flammable Limits in Air: (Ethyl alcohol) 3.3 - 19% Specific Gravity: <1 Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: 19%

### Section 10

**Reactivity Data** 

Toxicity Data
Will not occur
Water-reactive materials, Organic Peroxides, Strong acids, Oxidizing materials, Strong oxidizing agents
Temperatures above flash point in combination with sparks, open flames, or other sources of ignition. Elevated temperatures
Not generally reactive under normal conditions. Stable under normal conditions.

Routes of Entry Symptoms (Acute): Inhalation, ingestion, eye or skin contact. espiratory Irritation, Dermititis, Central Nervous System Depression, Dizziness, C

Delayed Effects:

Respiratory Irritation, Dermititis, Central Nervous System Depression, Dizziness, Cardiovascular system, Respiratory disorders No data available

Acute Toxicity:

Chemical Name Water	<b>CAS Number</b> 7732-18-5	Oral LD50 Oral LD50 Rat 90000 mg/kg	Dermal LD50	Inhalation LC50
Crystal Violet	548-62-9	Oral LD50 Mouse 96 mg/kg Oral LD50 Rabbit 150 mg/kg		
2-Propanol	67-63-0	Oral LĎ50 Rat 5045 mg/kg Oral LD50 Mouse 3600 mg/kg		INHALATION LC50 Rat 16000 ppm
Methanol	67-56-1	Oral LD50 Mouse 7300 mg/kg		INHALATION LC50 Rat 64000 ppm
Ammonium Oxalate, Monohydrate	6009-70-7			
Carcinogenicity:				

Chemical Name	CAS Number	IARC	NTP	OSHA
Ethanol	64-17-5	Listed	Listed	Listed
Crystal Violet	548-62-9	Not listed	Not listed	Not listed
2-Propanol	67-63-0	Listed	Not listed	Not listed
Methanol	67-56-1	Not listed	Not listed	Not listed
Ammonium Oxalate, Monohydrate	6009-70-7	Not listed	Not listed	Not listed

Chronic Effects: Mutagenicity:	No evidence of a mutagenic effect.
Teratogenicity:	Evidence of a teratogenic effect (birth defect).
Sensitization:	No evidence of a sensitization effect.
Reproductive:	Evidence of negative reproductive effects.
Target Organ Effects:	
Acute:	Cardiovascular system, Respiratory system, Central Nervous System, Eyes, Musculoskeletal system, Mucous Membranes, Blood
Chronic:	Eyes

### Section 12

Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.

**Ecological Data** 

Mobility: Persistence: Bioaccumulation: Degradability:	This material is expected to have moderate mobility in soil. It absorbs to most soil types. Adsorbs to soil., Biodegradation No data Biodegrades at a moderate rate.			
Other Adverse Effects:	No data			
<b>Chemical Name</b> Water Ethanol	<b>CAS Number</b> 7732-18-5 64-17-5	<b>Eco Toxicity</b> No data available 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]		
		48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L		
Crystal Violet	548-62-9			
2-Propanol	67-63-0	96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 $\mu$ G/L 96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 13299 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L 96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L		
Methanol	67-56-1	96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]		
Section 13	Dis	posal Information		
Disposal Methods:	•	e with all applicable Federal, State and Local regulations. Always aste disposer (TSD) to assure compliance.		
Waste Disposal Code(s):		If discarded, this product is considered a RCRA ignitable waste, D001.		
Section 14	Trai	nsport Information		

# Ground - DOT Proper Shipping Name:

Not regulated for transport by US DOT.

**Air - IATA Proper Shipping Name:** Not regulated for air transport by IATA.

### Section 15

**TSCA Status:** 

### **Regulatory Information**

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Ethanol	64-17-5	No	No	No	No	No
Crystal Violet	548-62-9	No	No	No	No	No
2-Propanol	67-63-0	Isopropyl alcohol	No	No	No	No
Methanol	67-56-1	No	No	No	No	No
Ammonium Oxalate, Monohydrate	6009-70-7	No	No	5000 lb final RQ (listed under Ammonium oxalate); 2270 kg final RQ (listed under Ammonium oxalate)	No	No

California Prop 65:

WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

### Section 16

### **Additional Information**

#### Revised: 10/20/2015

Replaces: 10/20/2015

#### Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary ACGIH CAS CERCLA	American Conference of Governmental Industrial Hygienists Chemical Abstract Service Number Comprehensive Environmental Response, Compensation, and Liability Act	NTP OSHA PEL ppm RCRA	National Toxicology Program Occupational Safety and Health Administration Permissible Exposure Limit Parts per million Resource Conservation and Recovery Act
DOT IARC N/A	U.S. Department of Transportation International Agency for Research on Cancer Not Available	SARA TLV TSCA IDLH	Superfund Amendments and Reauthorization Act Threshold Limit Value Toxic Substances Control Act Immediately dangerous to life and health