Hucker Ammonium Oxalate Crystal Violet



Section 1

Product Description

Product Name: Hucker Ammonium Oxalate Crystal Violet

Recommended Use: Science education applications **Synonyms:** Hucker Formulation Gentian Violet

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215-3398

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

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

DANGER







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.

Acute Toxicity Dermal Contains 22.8 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Composition / Information on Ingredients

Chemical Name	CAS#	%_
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 First 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: Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this MSDS Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

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.

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

Section 8 Protection Information

	ACC	<u>GIH</u>	OSHA PEL		
Chemical Name	(TWA)	(STEL)	<u>(TWA)</u>	(STEL)	
Ethanol	N/A	1000 ppm STEL	1000 ppm TWA; 1900 mg/m3 TWA	N/A	
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	

Control Parameters

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

Respiratory Protection:

Lab coat, apron, eye wash, safety shower.

No respiratory protection required under normal conditions of use. Provide general room

exhaust ventilation if symptoms of overexposure occur as explained Section 11. A

respirator is not normally required.

Respirator Type(s): 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

Eye Protection: Wear che available.

Skin Protection: 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

work. Nitrile

Gloves:

Section 9 Physical Data

Formula: See Section 3
Molecular Weight: No data available
Appearance: Purple Liquid
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%

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available

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

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Temperatures above flash point in combination with sparks, open flames, or other

sources of ignition. Elevated temperatures

Incompatible Materials: Water-reactive materials, Organic Peroxides, Strong acids, Oxidizing materials, Strong

oxidizing agents

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Respiratory Irritation, Dermititis, Central Nervous System Depression, Dizziness, Cardiovascular system, Re

spiratory disorders

Delayed Effects: No data available

Acute Toxicity:

Chemical Name Water	CAS Number 7732-18-5	Oral LD50 Oral LD50 Rat 90	Dermal LD50	Inhalation LC50
Ethanol	64-17-5	g/kg Oral LD50 Rat 7060 mg/kg		INHALATION LC50-4H Rat 124.7 MG/L
Crystal Violet	548-62-9	Oral LD50 Rat 420 mg/kg		
2-Propanol	67-63-0	Oral LD50 Rat 4396 mg/kg	Dermal LD50 Rat 12800 mg/kg Dermal LD50 Rabbit 12870 mg/kg	INHALATION LC50-4H Rat 72.6 MG/L
Methanol	67-56-1	Oral LD50 Rat 5628 mg/kg	Dermal LD50 Rabbit 15800 mg/kg	INHALATION LC50-4H Rat 83.2 MG/L INHALATION LC50-4H 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, Mu

cous Membranes, Blood

Chronic: Eyes

Section 12 Ecological Data

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

Mobility: This material is expected to have moderate mobility in soil. It absorbs to most soil types.

Persistence: Adsorbs to soil., Biodegradation

Bioaccumulation: No data

Degradability: Biodegrades at a moderate rate.

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity Water 7732-18-5 No data available 64-17-5 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] Ethanol 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 µG/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

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): If discarded, this product is considered a RCRA ignitable waste, D001.

Section 14

Transport 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

Regulatory Information

TSCA Status: 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: 06/20/2013 Replaces: 06/04/2013 Printed: 06-21-2013

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.

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