### **Material Safety Data Sheet**



# **Hucker Ammonium Oxalate Crystal Violet**

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# Carolina Biological Supply Company

UAKULINA www.carolina.com

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

# **Section 1 - Product Description**

Product Name: Hucker Ammonium Oxalate Crystal Violet

Product Code(s): 82-1050, 86-7483, 89-2301, 89,2305, 15-4708, 15-4708A, 15-4718A, 15-4718A, 15-4724A, 15-4708CA,

C19084, C70518

Size: Various

Chemical Name: N/A

CAS Number: See Section 3

Formula: See Section 3

Synonyms: Crystal violet for gram stain

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

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

### **Section 2 - Hazard Identification**

Emergency Overview: Harmful if inhaled or swallowed.

Potential Health Effects: Eves: May cause irritation.

**Eyes:** May cause irritation. **Skin:** May cause irritation to skin.

**Ingestion:** May cause gastrointestinal discomfort. **Inhalation:** May cause irritation to respiratory tract.

# **Section 3 - Composition / Information on Ingredients**

**Principal Hazardous Components:** Crystal Violet Stain(CAS#548-62-9) 3%; Ammonium Oxalate (CAS#1113-38-8)-0.8%; Ethyl alcohol (CAS#64-17-5) -19%; Methyl isobutyl ketone (CAS#108-10-1)-0.76%; Hexane (CAS#110-54-3) -0.24%

TLV units: (Crystal Violet Stain) ACGIH-TLV N/A

(Ammonium Oxalate) ACGIH-TLV N/A (Ethyl alcohol) ACGIH-TLV 1000 ppm (TWA)

(Methyl isobutyl ketone) ACGIH-TLV 50 ppm (TWA); (STEL) 75 ppm

(Hexane) ACGIH-TLV 50 ppm (TWA)

PEL units: (Crystal Violet Stain) OSHA-PEL N/A

(Ammonium Oxalate) OSHA-PEL N/A (Ethyl alcohol) OSHA-PEL 1000 ppm (TWA) (Hexane) OSHA-PEL 50 ppm (TWA)

### **Section 4 - First Aid Measures**

### **Emergency and First Aid Procedures:**

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Ingestion - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

### **Section 5 - Firefighting Procedures**

Flash Point (Method Used): 12.78°C (Ethyl alcohol) (CC)

NFPA Rating: Health: 0 Fire: 3 Reactivity: 0

Extinguisher Media: Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: (Ethyl alcohol) LEL 3.3% (Ethyl alcohol) UEL 19%

**Autoignition Temperature:** (Ethyl alcohol) 398.9°C

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

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

## **Section 6 - Spill or Leak Procedures**

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

# **Section 7 - Special Precautions**

**Precautions to Take in Handling or Storing:** Keep container tightly closed in a cool, well-ventilated place.

### **Section 8 - Protection Information**

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

**Ventilation:** 

**Local Exhaust:** Yes **Mechanical(General):** Yes

**Special:** No **Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

### **Section 9 - Physical Data**

Molecular Weight: N/A

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Pressure: N/A

Vapor Density(Air=1): N/A

Percent Volatile by Volume: Approximately 97%

Evaporation Rate (BuAc=1): N/A

**Solubility in Water:** Soluble **Appearance and Odor:** Deep purple solution with odor of

ethanol.

## **Section 10 - Reactivity Data**

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Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

Incompatibility (Materials to Avoid): Water-reactive Material, Oxidizers,

Hazardous Decomposition Products: COx, NOx,

Hazardous Polymerization: Will not occur

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# **Section 11 - Toxicity Data**

Toxicity Data: To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly evaluated.

(Crystal Violet Stain) orl-rat LD50 420 mg/kg

(Ammonium Oxalate) orl-rat TDLo 9 mL/kg/3Days continuous

(Ethyl Alcohol) orl-rat LD50 7060 mg/kg; ihl-rat LC50 20000 ppm/10H

(Methyl iso-butyl ketone) orl-rat LD50 2080 mg/kg

(Hexane) orl-rat LD50 25 gm/kg; ihl-human TCLo 5400 mg/m3/10M

**Effects of Overexposure:** Acute: See Section 2

Chronic: Mutation data cited. Reproductive data cited. Tumorigenic data cited.

Conditions Aggravated by Overexposure: Skin disorders, Eye disorders, Respiratory disorders,

Target Organs: Skin, Eyes, Respiratory system,

**Primary Route(s) of Entry:** Inhalation, ingestion, eye or skin contact.

### **Section 12 - Ecological Data**

EPA Waste Numbers: Methyl isobutyl ketone (U161)

### **Section 13 - Disposal Information**

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## **Section 14 - Transport Information**

**DOT Proper Shipping Name:** N/A

# **Section 15 - Regulatory Information**

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

**Name List:** 

Crystal Violet Stain - No Ammonium Oxalate - No Ethyl alcohol - No Methyl isobutyl keyone - Yes

Hexane - Yes

**Chemical Category:** 

Crystal Violet Stain - No Ammonium Oxalate - No Ethyl alcohol - No Methyl isobutyl keyone - No

Hexane - No

CERCLA Section 103 RQ(lb.): Crystal Violet Stain - No

Ammonium Oxalate - No Ethyl alcohol - No

Methyl isobutyl keyone - 5000

Hexane - 5000

RCRA Section 261.33: Crystal Violet Stain - No

Ammonium Oxalate - No

Ethyl alcohol - No Methyl isobutyl keyone - Yes

Hexane - No

### **Section 16 - Additional Information**

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various

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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. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value
TSCA Toxic Substances Control Act

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