

## Material Safety Data Sheet

### Section 1: Chemical Product and Company Identification

<b>Catalog Number:</b> 5280, N-116, N-117	
<b>Product Identity:</b> NEW METHYLENE BLUE, BRECHER	
<b>Manufacturer's Name:</b> RICCA CHEMICAL COMPANY LLC	<b>Emergency Contact(24 hr) -- CHEMTREC®</b> Domestic: 800-424-9300 International: 703-527-3887
<b>CAGE Code:</b> 0V553	
<b>Address:</b> 448 West Fork Dr Arlington, TX 76012	<b>Telephone Number For Information:</b> 817-461-5601
<b>Date Prepared:</b> 10/26/00	<b>Revision: 1</b>  Last Revised: 09/25/2001 Date Printed: 11/01/2006 8:57:33 am

### Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Potassium Oxalate Monohydrate	6487-48-5	1 - 2	Not Available Not Available	Not Available Not Available
New Methylene Blue N	6586-05-6	< 0.5	Not Available Not Available	Not Available Not Available
Water, Deionized	7732-18-5	Balance	Not Available Not Available	Not Available Not Available

### Section 3: Hazard Identification

**Emergency Overview:** WARNING! May be harmful if swallowed. If ingested, give large quantity of water or milk and induce vomiting. Call a physician. Avoid contact with skin, eyes, or clothing. Wash areas of contact with plenty of water. For eyes, get medical attention.

**Target Organs:** eyes, skin, kidneys, gastrointestinal system, respiratory system.

**Eye Contact:** May cause irritation, redness, pain, and tearing.

**Inhalation:** Oxalates can be absorbed through the lungs. Symptoms of poisoning include nervousness, cramps, central nervous system depression.

**Skin Contact:** May cause irritation, redness, and pain.

**Ingestion:** May cause nausea, vomiting and abdominal pain. These dilute solutions produce little gastrointestinal distress but may cause weakness, muscular twitchings. Mean lethal dose for oxalates in adults is estimated at 15-30 grams. The soluble oxalates are readily absorbed from the gastrointestinal tract and can cause severe damage to the kidneys. Sharp reduction of serum calcium can cause dysfunction of the brain. Calcium Oxalate may be deposited in the kidneys.

**Chronic Effects/Carcinogenicity:** Chronic ingestion of small amounts may cause hypocalcemic tetany (calcium deficiency in blood), urinary calculi (hardening of mineral salts around organic material found in the urinary tract).

## MSDS

IARC - No.

NTP - No.

OSHA - No.

**Reproductive Information:** Not Applicable.

**Teratology (Birth Defect) Information:** Not Applicable.

### Section 4: First Aid Measures - In all cases, seek qualified evaluation.

**Eye Contact:** Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

**Inhalation:** Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

**Skin Contact:** Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops.

**Ingestion:** Dilute immediately with water or milk. Induce vomiting. Call a physician.

### Section 5: Fire Fighting Measures

**Flash Point:** Not Available.

**LFL:** Not Available.

**Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Fire & Explosion Hazards:** Not considered to be a fire or explosion hazard.

**Fire Fighting Instructions:** Use normal procedures/instructions.

**Fire Fighting Equipment:** Use protective clothing and breathing equipment appropriate for the surrounding fire.

**Method Used:** Not Available.

**UFL:** Not Available.

### Section 6: Accidental Release Measures

Absorb with suitable material and dispose of in accordance with local regulations.

### Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store at room temperature.

**Safety Storage Code:** General

### Section 8: Exposure Control/Personal Protection

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves.

**Eye Protection:** Safety glasses or goggles.

### Section 9: Physical and Chemical Properties

**Appearance:** Clear, dark blue liquid

**Odor:** Odorless

**Solubility in Water:** Infinite

**Specific Gravity:** Approximately 1

**pH:** Not Available.

**Boiling Point(°C):** Approximately 100

**Melting Point(°C):** Approximately 0

**Vapor Pressure:** Not Applicable.

### Section 10: Stability and Reactivity

**Chemical Stability:** Stable under normal conditions of use and storage.

**Incompatibility:** Strong oxidizers.

**Hazardous Decomposition Products:** May produce irritating oxides of Carbon, Potassium and Nitrogen fumes when heated to decomposition.

**Hazardous Polymerization:** Will not occur.



## MSDS

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### Section 11. Toxicological Information

LD50, Oral, Rat: No information available on normal routes of exposure.

### Section 12. Ecological Information

**Ecotoxicological Information:** No information found.

**Chemical Fate Information:** No information found.

### Section 13. Disposal Considerations

Dilute with water and flush to the sewer if local regulations allow. If not allowed, containerize for proper disposal at an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

### Section 14. Transport Information

Part Numbers:

This product is not regulated.

### Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

**OSHA Status:** These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

**TSCA Status:** All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

**Section 302 Extremely Hazardous Substances:** Not Applicable.

**Section 311/312 Hazardous Categories:** Chronic: Yes      Acute, Fire, Pressure, Reactivity: No

**Section 313 Toxic Chemicals:** Not Applicable.

**California:** None Reported.

**Pennsylvania:** None Reported.

**RCRA Status:** Not Applicable.

**CERCLA Reportable Quantity:** None Reported.

**WHMIS:** Not Applicable.

### Section 16. Other Information





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### NFPA Ratings:

Health: 1	Flammability: 0	Reactivity: 0	Special Notice Key:None
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### HMIS Ratings:

Health: 1	Flammability: 0	Reactivity: 0	Protective Equipment:B (Protective Eyewear, Gloves)
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Rev 1, 10-09-2001: Reformatted to electronic data format.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.