# Safety Data Sheet Celestine Blue, 0.5% in 5% Iron Alum (Ferric Ammonium Sulfate)

Section 1 - Chemical Product and Company Identification

 SDS Name: Celestine Blue, 0.5% in 5% Iron Alum (Ferric Ammonium Sulfate)
Catalog Numbers: SO-978
Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL Inc. 10 ELECTRONICS AVENUE DANVERS, MA 01923
For information, call: 978-739-4883
Emergency Number: 800-424-9300
For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

# **GHS Classifications**

H290-Corrosive to metals: 1 H314-Skin corrosion/irritation: 1A H318-Serious eye damage/eye irritation: 1

5.5% of the mixture consists of ingredients of unknown acute toxicity.

## **Pictograms or Hazard symbols and Hazard statement(s):**



Signal Word: Danger

## **Hazard Statements:**

H290-May be corrosive to metals H314-Causes severe skin burns and eye damage H318-Causes serious eye damage

# **Precautionary Statements:**

P234-Keep only in original packaging.

P260-Do not breathe dusts or mists.

P264-Wash thoroughly after handling.

P280-Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331-If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353-If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340-If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310-Immediately call a Poison Center/doctor.

P363-Wash contaminated clothing before reuse.

P390-Absorb spillage to prevent material damage.

P405-Store locked up.

P406-Store in a corrosion resistant container with a resistant inner liner.

P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
7783-83-7	-83-7 Ferric Ammonium Sulfate Dodecahydrate	
1562-90-9	Celestine Blue	0.5 w/v
7732-18-5	Water	Balance

Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek immediate medical attention.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek immediate medical attention.

**Oral Exposure:** If swallowed, seek immediate medical advice. Do not induce vomiting.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During

a fire, irritating gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:** Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

**Hazardous Combustion Products:** Carbon oxides, nitrogen oxides, iron oxides, sulfur oxides, ammonia, chlorine, hydrogen chloride gas, irritating and toxic fumes and gases.

Flash Point: Not available Autoignition Temperature: Not available Explosion Limits, Lower: Not available Upper: Not available NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

#### **Procedure(s) of Personal Precaution(s):**

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation.

**Methods for Cleaning up:** Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Wash thoroughly after handling. Ensure adequate ventilation. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Store in a cool, dry, and well-ventilated area. Keep in a tightly closed and non-metal container. Protect from direct sunlight. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

#### **Personal Protective Equipment**

**Eyes:** 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.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

#### **Exposure Limits:**

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA – PELs
Ferric Ammonium Sulfate Dodecahydrate CAS#7783-83-7	1 mg/m3 TWA	1 mg/m3 TWA	1 mg/m3 TWA (vacated)
Celestine Blue CAS#1562-90-9	Not listed	Not listed	Not listed

Section	9 -	Physical	and	Chemical	Properties
		,			

**Physical State:** Liquid **Appearance:** Dark purple **Odor:** Odorless Vapor Pressure: Not available **Odor Threshold:** Not available Vapor Density: Not available **pH:** Approx. 1.80 **Relative Density:** Not available Melting point/freezing point: Not available **Solubility:** Soluble in water **Boiling Point:** Not available Flash Point: Not available **Evaporation Rate:** Not available Flammability (solid, gas): Not available Partition coefficient: n-octanol/water: Not available Autoignition Temperature: Not available **Decomposition Temperature:** Not available Viscosity: Not available Specific Gravity/Density: Not available

Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, direct sunlight.

Incompatibilities with Other Materials: Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides, iron oxides, sulfur oxides, ammonia, chlorine, hydrogen chloride gas, irritating and toxic fumes and gases.

Section 11 - Toxicological Information

CAS#7783-83-7 Ferric Ammonium Sulfate Dodecahydrate: RTECS#: WS5900000 LD50 Oral: Not available LD50 Dermal: Not available LC50 Inhalation: Not available

**Carcinogenicity:** Ferric Ammonium Sulfate Dodecahydrate CAS#7783-83-7 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

#### CAS#1562-90-9 Celestine Blue:

LD50 Oral: Not available LD50 Dermal: Not available LC50 Inhalation: Not available

**Carcinogenicity:** Celestine Blue CAS#1562-90-9 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

**Information on the likely routes of exposure:** Routes of entry anticipated: oral, dermal, inhalation, and eye.

Epidemiology: Not available. Teratogenicity: Not available. Reproductive Effects: Not available. Developmental Effects: Not available. Neurotoxicity: Not available. Mutagenicity: Not available. Specific Target Organ Toxicity, Single Exposure: Not available. Specific Target Organ Toxicity, Repeated Exposure: Not available.

**Symptoms associated with exposure:** Causes severe skin burns and eye damage. Causes serious eye damage. Overexposure may cause nausea, vomiting, diarrhea. May have a toxic effect on liver and kidneys. May cause blood pressure drop, CNS disorders, spasms.

# The toxicological properties of this material have not been thoroughly investigated.

Section 12 - Ecological Information

**Ecotoxicity:** Do not release to the environment. Do not release to drains.

Persistence and degradability: Not available.Bio-accumulative potential: Not available.Mobility: Will likely be mobile in the environment due to its water solubility.

Section 13 - Disposal Considerations

**DISPOSAL:** Dispose of in accordance with all federal, state, and local regulations.

#### DOT

Proper shipping name: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Ferric Ammonium Sulfate Solution) UN3264 PG III Hazard class 8

Section 15 - Regulatory Information

#### **Canada Regulatory Information**

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16 - Additional Information

#### SDS Creation Date: 5-16-23

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Rowley Biochemical, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages, howsoever arising, even if Rowley Biochemical, Inc. has been advised of the possibility of such damages.