

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: ChemTreat BL-1821
Manufacturer's Name: ChemTreat, Inc.
Emergency Telephone Number: (800) 424-9300
Address (Corporate Headquarters): 4461 Cox Road, Glen Allen, VA 23060
Telephone Number for Information: (800) 648-4579
Date of MSDS: April 4, 2007

Section 2. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt. %
Sodium nitrite	7632-00-0	10 - 30
Sodium tetraborate pentahydrate	12179-04-3	0.5 - 1.5

Section 3. Hazards Identification

Emergency Overview: Clear blue-purple liquid; mild odor. Not flammable.

Potential Health Effects:

Eyes - May be irritating to eyes.

Skin - May be irritating to skin.

Inhalation - If inhaled as a mist, may be irritating to respiratory tract and mucous membranes. May cause reduced oxygen-carrying capacity of the blood.

Ingestion - Harmful if ingested. May cause low blood pressure with headache or fainting.

Chronic Effects/Carcinogenicity: Over-exposure to sodium nitrite may produce nausea, headache, weakness, cyanosis and low blood pressure. Persons with pre-existing diseases of the cardiovascular system or bone marrow, or skin disorders, or impaired pulmonary function may be more susceptible to the effects of this product.

Section 4. First Aid Measures

Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get immediate medical attention.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of entire eye surface. Get immediate medical attention.

Skin: Wash thoroughly with soap & large amounts of water. Wash clothing before reuse. Get medical attention immediately.

Ingestion: Give victim two (2) glasses of water and induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately.

Section 5. Fire Fighting Measures

Flammable Properties: Not flammable

Suitable Extinguishing Media: Use extinguishing media appropriate to surrounding fire.

Fire & Explosion Hazards: Although product will not burn, high temperatures (above 900°F) can result in decomposition and the release of nitrogen oxides.

Protective Equipment: Wear full protective clothing including a positive-pressure, NIOSH-approved, self-contained breathing apparatus.

Section 6. Accidental Release Measures

Small Spill: Construct temporary dikes of dirt, sand, or any readily available inert material to prevent spreading of the material. Wearing appropriate personal protective equipment, move the leaking container to a containment area or plug the leak. Absorb on inert material, then shovel up and dispose of according to local, state, federal regulations.

Large Spill: Construct temporary dikes of dirt, sand, or any readily available inert material to prevent spreading of the product. Wearing appropriate personal protective equipment, close or cap valves and/or block or plug hole in leaking container and transfer to another container for proper disposal.

Section 7. Handling and Storage

Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Avoid breathing mists. Do not ingest. Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For industrial use only.

Section 8. Exposure Controls/Personal Protection

Use protective equipment in accordance with 29 CFR 1910 Subpart I. Good general ventilation should be sufficient to control airborne levels. Wear chemical splash goggles or safety glasses with full-face shield. Wear rubber gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and coveralls to prevent skin contact. Maintain eyewash fountain and quick-drench facilities in work area.

Section 9. Physical and Chemical Properties

Appearance: Clear blue-purple

Boiling Point: ~ 212°F

Evaporation Rate: N/D

Freezing Point: ~9°F

Melting Point: N/A

Molecular Weight: N/D

Odor: Mild

pH: ~ 12.6

Physical state: Liquid

Solubility in Water: Complete

Specific Gravity: ~1.160

Vapor Density: N/D

Vapor Pressure: Same as water

Viscosity: N/D

% VOCs: None

Flash Point: Not flammable

Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility: Organics; amines; acids; reducing agents

Hazardous Decomposition Products: Toxic nitrogen oxides when heated above 900 F
Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

Sodium nitrite Oral LD50 = 120 mg/kg (rats); Dermal LD50 = 1.45 mg/L (rats); TWA = 5 mg/m³ OSHA/ACGIH

Sodium tetraborate pentahydrate Oral LD50 = 3.4 g/kg (rats); Dermal LD50 = >2.0 g/kg (rabbits); TLV = 1 mg/m³ ACGIH

Sodium hydroxide TWA = 2 mg/m³ OSHA/ACGIH

Section 12. Ecological Information

Ceriodaphnia dubia: 48h LC50 = 6.16 mg/L

Fathead minnow: 96h LC50 = 103 mg/L

Section 13. Disposal Considerations

Dispose of as unlisted hazardous waste, characteristic of corrosivity D002. Observe all federal, state and local regulations when disposing of this product.

Section 14. Transport Information (not meant to be all inclusive)

D.O.T. Shipping Name: Environmentally Hazardous Substances, Liquid, n.o.s.

Technical Name: (Sodium nitrite)

Hazard Class: 9 (Environmentally Hazardous); UN3082; PG III

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

TSCA Status: All ingredients listed

CERCLA Reportable Quantity: Sodium nitrite - 100 lbs.

SARA Title III:

Section 302 Extremely Hazardous Substances: None

Section 313 Toxic Chemicals: Sodium Nitrite

CALIFORNIA PROPOSITION 65: None known.

KOSHER: This product is certified by the Orthodox Union as kosher pareve.

USDA: (Federally inspected meat & poultry plants) - product approved for Categories G5 and G7.

Section 16. Other Information

HMIS Hazard Rating:

Health: 2 Flammability: 0 Physical Hazard: 0 PPE: X (see note)

Note: PPE rating depends on circumstances of use. See Section 8 for recommended PPE.

SARA Hazard Categories - Section 311/312

Acute - Yes Chronic - Yes Fire - No Reactive - No Sudden Release - No

Prepared by Regulatory Affairs

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