



MATERIAL SAFETY DATA SHEET

Ty-Ion B20

I - PRODUCT IDENTIFICATION

Company Name: Nu-Calgon Wholesaler, Inc.
Address: 2008 Altom Court, St. Louis, MO 63146-4151
Product Name: Ty-Ion B20
Synonyms: Aqueous Closed - Loop Water Treatment

Tel No: (314) 469-7000, (800) 554-5499
CHEMTREC: (800) 424-9300
Product Number: 7537

II - HAZARDOUS INGREDIENTS OF MIXTURES

<u>MATERIAL</u>	<u>CAS#</u>	<u>% By Wt</u>	<u>TLV</u>	<u>PEL</u>
Sodium Nitrite (ORAL LD50 Rat 85 mg/kg)	7632-00-0	<15 <15	N/A 1mg/m3	N/A 10mg/m3
Sodium Tetraborate, Pentahydrate (ORAL LD50 Rat 709 mg/kg)	12179-04-3			

All ingredients are TSCA listed.

III - PHYSICAL DATA

Vapor Pressure: mm Hg: N/A
Evaporation Rate: (ether=1): N/A
Solubility in H₂O: Complete
Freezing Point °F: Circa 0°F
Boiling Point °F: @14.7 psig @220°
Specific Gravity H₂O=1 @25° C: 1.23

Vapor Density (Air=1) 60-90° F: N/A
VOC Content (% by wt.): @105C/2hrs. 70%
pH @ 1% Solution: 10.7
pH as Distributed: 12
Appearance: Red liquid
Odor: No distinct odor

IV - FIRE AND EXPLOSION

Flash Point F: None to boil **Flammable Limits:** N/A
Extinguishing Media: Water, CO₂, foam, dry chemical.
Special Fire Fighting Procedures: N/A
Unusual Fire and Explosion Hazards: N/A

V - REACTIVITY DATA

Stability - Conditions to avoid: Sodium nitrite is a strong oxidizing agent. Dried residues may be explosive.
Incompatibility: Acidic solutions, cyanides, reducing materials, strong oxidizers, amines.
Hazardous Decomposition Products: Nitrogen oxides.
Conditions Contributing to Hazardous Polymerizations: Will not occur.

VI - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects),
A. ACUTE (Primary Route of Exposure) EYES & SKIN: Product is an eye irritant and may be irritating to the skin. **INHALATION:** Avoid concentrated fumes/mists. May be irritating. **INGESTION:** Harmful if swallowed. Sodium nitrite poisoning is characterized by lack of blood pressure and cyanosis.
B. SUBCHRONIC, CHRONIC, OTHER: No available information was found.
C. MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

VII - EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air and contact a physician.
EYES: Flush with water for 15 minutes and get medical attention.
SKIN: Wash thoroughly with water; remove contaminated clothing and launder before reuse. Call a physician if irritation persists.
INGESTION: Induce vomiting using a mild emetic. After vomiting occurs, provide as much milk to drink as can be tolerated and call a physician.

VIII - SPILL OR LEAK PROCEDURE

Spill Management: Collect with absorbent and bury or burn. Flush residue to sewer with plenty of water.
Waste Disposal Methods: In case of large spill, dispose of through authorized scavenger service. Triple rinse plastic and metal drums thoroughly, remove labels and tender to drum reconditioner or dispose of in accordance with local regulations.

IX - PROTECTION INFORMATION/CONTROL MEASURES

Respiratory: N/A
Eye Protection: Goggles and face shield **Glove:** Rubber Gloves
Other Clothing and Equipment: Chemical apron.
Ventilation: Adequate local ventilation.

X - SPECIAL PRECAUTIONS

Precautions to be taken in Handling and Storing : For industrial use only. Protect from physical damage. This product is ruined by freezing. Store in heated area.
Additional Information: Read and observe labeled use instructions.

NFPA

Health Hazard.....: 1
Fire Hazard.....: 0
Reactivity.....: 0
Specific Hazard...:

HMIS RATING

Health Hazard.....: 1
Fire Hazard.....: 0
Reactivity.....: 0
Personal Protection...: X (Sec. 9)

Revision Date: 03/21/2002

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