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## MATERIAL SAFETY DATA SHEET

DATE PREPARED: 7/20/00 SW

1. CHEMICAL PRODUCT IDENTIFICATION **DUBOTH NB**

General Use: **MULTI-FUNCTIONAL WATER TREATMENT**

EMERGENCY TELEPHONE NUMBER:  
CHEMTREC 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200) EXPOSURE LIMITS 8 HRS. TWA (PPM)

| Component             | Hazard          | CAS#              | OSHA STEL          | OSHA PEL           | ACGIH TLV                 |
|-----------------------|-----------------|-------------------|--------------------|--------------------|---------------------------|
| <b>SODIUM NITRITE</b> | <b>OXIDIZER</b> | <b>7632-00-00</b> | <b>NONE LISTED</b> | <b>NONE LISTED</b> | <b>NONE LISTED</b>        |
| <b>SODIUM BORATE</b>  | <b>IRRITANT</b> | <b>1303-96-4</b>  | <b>NONE LISTED</b> | <b>NONE LISTED</b> | <b>1 MG/M<sup>3</sup></b> |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: **THIS PRODUCT IS AN IRRITANT BUT POSES DANGER IF IT ENTERS THE BODY. THIS PRODUCT IS AN OXIDIZER IF DRIED.**

POTENTIAL HEALTH EFFECTS

INHALATION: **HARMFUL IF INHALED. OVEREXPOSURE BY INHALATION OR INGESTION MAY CAUSE REDUCED OXYGEN CARRYING CAPACITY OF BLOOD AND POSSIBLE CYANOSIS, METHEMOGLOBINEMIA AND CONVULSIONS DEATH.** EYE CONTACT: **MAY BE IRRITATING TO THE EYES.**

INGESTION: **SEE INHALATION – MAY ALSO CAUSE NAUSEA AND VOMITING.** CHRONIC: **NONE**

SKIN CONTACT: **MAY BE IRRITATING TO THE SKIN.** TARGET ORGANS: **BLOOD AND CARDIOVASCULAR SYSTEM.**

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: **N.D.**

4. FIRST AID MEASURES

INHALATION: **REMOVE TO FRESH AIR. GET MEDICAL ATTENTION.** SKIN CONTACT: **WASH WITH SOAP AND WATER FOR 15 MINUTES.**

EYE CONTACT: **FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.** INGESTION: **GIVE 2-4 FULL CUPS OF MILK OR WATER AND INDUCE VOMITING. GET MEDICAL ATTENTION.**

NOTES TO PHYSICIAN: **NONE**

5. FIRE FIGHTING MEASURES

Flashpoint (°F) and Method: **WATER BASED – DOES NOT BURN** Autoignition Temperature (°F): **N/A**

FLAMMABLE LIMITS: Ingredient: **NONE** UEL: **N/A** LEL: **N/A**

GENERAL HAZARD: **OXIDIZER WHEN DRIED, SUPPORTS COMBUSTION.** FIRE FIGHTING EQUIPMENT: **WEAR SELF CONTAINED BREATHING APPARATUS.**

FIRE FIGHTING INSTRUCTIONS: **FIRES DIFFICULT TO EXTINGUISH, FLOOD WITH WATER.**

EXTINGUISHING MEDIA:

|                          |                          |                    |
|--------------------------|--------------------------|--------------------|
| Foam: <b>YES</b>         | Alcohol Foam: <b>YES</b> | CO2: <b>YES</b>    |
| Dry Chemical: <b>YES</b> | Water: <b>YES</b>        | Other: <b>NONE</b> |

HAZARDOUS COMBUSTION PRODUCTS: **NITROGEN OXIDES.**

NATIONAL FIRE PROTECTION ASSOCIATION HAZARD RATINGS:

|                   |             |                    |          |
|-------------------|-------------|--------------------|----------|
| 0 – Insignificant | 1 – Slight  | 2 – Moderate       | 3 – High |
| 4 – Extreme       | U – Unknown | * - No Information |          |

Health: **:1**  
Flammability: **:0**  
Reactivity: **:0**

SPECIAL INFORMATION: **DRIED MATERIAL IS AN OXIDIZER AND WILL SUPPORT COMBUSTION.**

N/A: Not Applicable  
N/D: Not Determined  
N/E: Not Established  
\* Where no corresponding data was contained in manufacturer's MSDS, additional research is required and is available upon request.





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6. ACCIDENTAL RELEASE MEASURES

LAND SPILL: **CONTAIN AND ABSORB, THEN DISPOSE OF IN ACCORDANCE TO LOCAL, STATE AND FEDERAL GUIDELINES.**

WATER SPILL: **NOTIFY APPROPRIATE AUTHORITIES. THIS PRODUCT CONTAINS SODIUM NITRITE.**

7. HANDLING AND STORAGE

STORAGE TEMPERATURE (°F): **ROOM TEMPERATURE**

STORAGE PRESSURE: **ATMOSPHERIC**

GENERAL: **STORE IN A COOL, DRY AREA. KEEP AWAY FROM COMBUSTIBLE MATERIALS. KEEP FROM FREEZING AND WASH AFTER HANDLING.**

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: **USE WITH ADEQUATE VENTILATION.**

PERSONAL PROTECTION: **GOGGLES**

RESPIRATOR: **NONE.**

PROTECTIVE CLOTHING: **RUBBER GLOVES.**

9. PHYSICAL AND CHEMICAL PROPERTIES

|                            |   |                  |                         |   |                   |
|----------------------------|---|------------------|-------------------------|---|-------------------|
| Vapor Pressure (mmHg)      | : | <b>N.D.</b>      | pH 1% Solution          | : | <b>9.0 – 10.0</b> |
| Specific Gravity (Water=1) | : | <b>1.08-1.12</b> | Odor                    | : | <b>SLIGHT</b>     |
| Solubility in Water        | : | <b>COMPLETE</b>  | Appearance              | : | <b>AMBER</b>      |
| Freezing Point             | : | <b>N.D.</b>      | Physical State          | : | <b>LIQUID</b>     |
| Evaporation Rate (BuAc=1)  | : | <b>N.D.</b>      | Vapor Density (Air=1)   | : | <b>N.D.</b>       |
| Viscosity                  | : | <b>N.D.</b>      | Percent Volatile by Vol | : | <b>N.D.</b>       |
| Boiling Point (°F)         | : | <b>N.D.</b>      |                         |   |                   |

10. STABILITY AND REACTIVITY

GENERAL: **STABLE BUT WILL REACT EXPLOSIVELY WITH OXIDIZERS SUCH AS CHLORINE.**

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: **DO NOT MIX WITH AMINES. INCOMPATIBLE WITH ACIDS, AMMONIUM SALTS, ACTIVATED CARBON, CYANIDES AND REDUCING AGENTS.**

HAZARDOUS DECOMPOSITION PRODUCTS: **NITROGEN OXIDES ABOVE 320°C.**

11. TOXICOLOGICAL INFORMATION

CARCINOGENIC INFORMATION: **N/E**

CAS#: **NONE**

% WT.: **N/A**

IARC: **NOT LISTED**    NTP: **NOT LISTED**    OSHA: **NOT LISTED**    ACGIH: **NOT LISTED**    OTHER: **NOT LISTED**

12. ECOLOGICAL INFORMATION: **N.D.**

13. DISPOSAL CONSIDERATION

RCRA Hazard Class: **NONE LISTED.**

14. TRANSPORT INFORMATION:

DOT (Department of Transportation)

Proper Shipping Name: **NOT DOT REGULATED**

Hazard Class: **N/A**

Identification Number: **N/A**

15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): **ALL COMPONENTS ARE LISTED ON THE TSCA INVENTORY.**

CERCLA (Comprehensive Environmental Response Compensation, and Liability Act)    **THIS PRODUCT CONTAINS SODIUM NITRITE A REPORTABLE (RQ) SUBSTANCE. IF 500 POUNDS ARE RELEASED, THE NATIONAL RESPONSE CENTER, WASHINGTON D.C. (1-800-424-8802) SHOULD BE NOTIFIED.**

SARA TITLE III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories: **IMMEDIATE HEALTH HAZARD**

313 Reportable Ingredients: **SODIUM NITRITE**

16. OTHER INFORMATION

REFERENCE: **PRODUCT FILE #F1037**

THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL. IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE.

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