



THE METRO GROUP, INC.

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MATERIAL SAFETY DATA SHEET

Divisions:
Metropolitan Refining
Consolidated Water Conditioning
Cosmopolitan Chemical
Petro Con Chemical

PRODUCT: **DUBOTH NB**

DATE PREPARED: JUNE 21, 1995

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

General Use: WATER TREATMENT

Product Description: WATER TREATMENT PRODUCT

EMERGENCY TELEPHONE NUMBERS:

CHEMTREC

800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

EXPOSURE LIMITS 8 hrs. TWA (ppm)

<u>Component</u>	<u>Hazard</u>	<u>CAS #</u>	<u>OSHA STEL</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
SODIUM NITRITE	OXIDIZER	7632-00-00	NONE	NONE	NONE
SODIUM BORATE	*	1330434	NONE	NONE	NONE

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A MILD IRRITANT

POTENTIAL HEALTH EFFECTS

INHALATION: MAY IRRITATE RESPIRATORY TRACT

EYE CONTACT: IRRITANT

POTENTIAL HEALTH EFFECTS

SKIN CONTACT: IRRITANT

INGESTION: IRRITANT

CHRONIC: NONE

TARGET ORGANS: *

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: N/D

N/A: Not Available
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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4. FIRST AID MEASURES

INHALATION: REMOVE TO FRESH AIR
EYE CONTACT: FLUSH WITH WATER (15 MINUTES) THEN GET MEDICAL ATTENTION
SKIN CONTACT: WASH WITH SOAP AND WATER
INGESTION: DRINK WATER AND GET MEDICAL ATTENTION

NOTES TO PHYSICIAN: NONE

5. FIRE FIGHTING MEASURES

Flashpoint (IF) and Method: LIQUID DOES NOT BURN
Autoignition Temperature (IF): DRIED MATERIAL IS SKIN OXIDIZING AGENT

FLAMMABLE LIMITS

Ingredient: UEL: N/A LEL: N/A

GENERAL HAZARD: OXIDIZER WHEN DRIED

FIRE FIGHTING INSTRUCTIONS: N/A

FIRE FIGHTING EQUIPMENT: WEAR SELF CONTAINED BREATHING APPARATUS WITH FULL FACE MASK

EXTINGUISHING MEDIA:

Foam: X **Alcohol Foam:** X **CO2:** X
Dry Chemical: X **Water:** X **Other:**

HAZARDOUS COMBUSTION PRODUCTS: TEMPERATURES ABOVE 320°C YIELD NITROGEN OXIDES

NATIONAL FIRE PROTECTION ASSOCIATION:

NFPA Hazard Rating: 0 - Insignificant 1 - Slight 2 - Moderate 3 - High
4 - Extreme U - Unknown *-No Information

Health : 1
Flammability : 1
Reactivity : 0

SPECIAL INFORMATION: AS MENTIONED ABOVE, DRIED MATERIAL IS AN OXIDIZER

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL: DIKE AND ABSORB MATERIAL THEN DISPOSE OF PROPERLY. DISPOSE OF IN ACCORDANCE TO LOCAL, STATE AND FEDERAL GUIDELINES

WATER SPILL: *

N/A: Not Available
N/D: Not Determined
N/E: Not Established

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**PRODUCT: DUBOTH NB****DATE PREPARED: JUNE 21, 1995****7. HANDLING AND STORAGE****STORAGE TEMPERATURE (IF): ROOM TEMPERATURE****STORAGE PRESSURE: ATMOSPHERIC****GENERAL: STORE IN A COOL DRY PLACE. KEEP CONTAINER CLOSED****8. EXPOSURE CONTROLS/PERSONAL PROTECTION****ENGINEERING CONTROLS: LOCAL EXHAUST****PERSONAL PROTECTION:****RESPIRATOR: NONE****PROTECTIVE CLOTHING: RUBBER GLOVES, GOGGLES****9. PHYSICAL AND CHEMICAL PROPERTIES**

Vapor Pressure (mmHg)	:	N/D	pH: 10-11
Specific Gravity (Water=1)	:	1.15	Odor: SWEET
Solubility in Water	:	COMPLETE	
Freezing Point	:	N/D	
Evaporation Rate (BuAc=1)	:	N/D	
Viscosity	:	N/D	
Boiling Point (IF)	:	ABOVE 212	
Appearance	:	AMBER LIQUID	
Physical State	:	LIQUID	
Vapor Density (Air=1)	:	N/D	
Percent Volatile by Vol	:	N/D	

10. STABILITY AND REACTIVITY**GENERAL: STABLE****INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: DO NOT USE WITH AMINES****HAZARDOUS DECOMPOSITION PRODUCTS: TEMPERATURES ABOVE 320°C YIELD NITROGEN OXIDES****11. TOXICOLOGICAL INFORMATION****CARCINOGENIC INFORMATION:****CAS#: %Wt.:****IARC: NO NTP: NO OSHA: NO ACGIH: NO OTHER: NO****12. ECOLOGICAL INFORMATION:*****13. DISPOSAL CONSIDERATION****RCRA Hazard Class: NOT A HAZARD**

N/A: Not Available

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14. TRANSPORT INFORMATION

DOT (Department of Transportation)

Proper Shipping Name : NONE

Hazard Class : NONE

Identification Number : NONE

15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): ALL COMPOUNDS USED ARE LISTED IN THE TSCA INVENTORY

CERCLA (Comprehensive Environmental Response Compensation, and Liability Act): NONE

SARA TITLE III (Superfund Amendments and Reauthorization Act):

311/312 Hazard Categories:	SODIUM NITRITE	10-20%
	SODIUM BORATE	5-15%

313 Reportable Ingredients: NONE

16. OTHER INFORMATION

REFERENCES: NONE

THE INFORMATION RELATES TO THIS SPECIFIC MATERIA. 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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