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NALCO CHEMICAL COMANY -- NALCOOL 2000 COOLING TREATMENT -- 6850-01-085-4717

======== Product Identification ============

Product ID:NALCOOL 2000 COOLING TREATMENT

MSDS Date:05/13/1992

FSC:6850

NIIN:01-085-4717

MSDS Number: BSHMP === Responsible Party ===

Company Name: NALCO CHEMICAL COMANY

Address: ONE NALCO CENTER

City:NAPERVILLE

State:IL

ZIP:60563-1198 Country:US

Info Phone Num:708-305-1000

Emergency Phone

Num:708-920-1510 (24 HOURS)

Preparer's Name: RICKY A. STACKHOUSE

CAGE:89524

=== Contractor Identification ===

Company Name: CHEMICAL SPECIALISTS AND DEVELOPMENT INC

Address:2210 HACKBERRY LN

Box:687

City:CONROE

State:TX ZIP:77305 Country:US

Phone: 409-756-1065

CAGE:4N760

Company Name: ONDEO NALCO COMPANY

Address: ONDEO NALCO CENTER

Box:City:NAPERVILLE

State:IL

ZIP:60563-1198 Country:US

Phone: (630) 305-1000

CAGE:89524

Company Name: PENRAY COMPANY INC

Address:440 DENNISTON CT

Box:City:WHEELING

State:IL

ZIP:60090 Country:US

Phone:847-459-5000/800-752-7869

CAGE:0WT79

======= Composition/Information on Ingredients ========

Ingred Name: SODIUM NITRITE (SARA III)

CAS:7632-00-0

RTECS #:RA1225000 Fraction by Wt: 1-5% EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:SODIUM MERCAPTOBENZOTHIAZOLE (SESITIZER)

CAS:2492-26-4

RTECS #:DL6825000 Fraction by Wt: 1-5%

Ingred Name:SODIUM TETRABORATE, DECAHYDRATE

CAS:1303-96-4

RTECS #: VZ2275000 Fraction by Wt: 1-5% OSHA PEL:10 MG/M3

ACGIH TLV :5 MG/M3; 9192

Ingred Name: NITRATES (INDIVIDUAL NITRATES NOT SPECIFICALLY NAMED ON MSDS)

Ingred Name: SILICATES (INDIVIDUAL SILICATES NOT SPECIFICALLY NAMED ON MSDS)

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Ingred Name: BORATES (INDIVIDUAL BORATES NOT SPECIFICALLY NAMED ON MSDS) Other REC Limits: NONE RECOMMENDED

Ingred Name: NITRITES (INDIVIDUAL NITRITES NOT SPECIFICALLY NAMED ON

MSDS)

Other REC Limits: NONE RECOMMENDED

===== Hazards Identification ======

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LD50 LC50 Mixture:LD50 (ORAL ALBINO RAT) IS 3,362 MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE-ANIMAL STUDIES WITHA SIMILAR

PRODUCT SHOW:ORAL TOXICITY LD50=3,362 MG/KG; DRAIZE SKIN

IRRITATION=0.5-8.0 MINIMAL IRRITATION; DRAIZE EYE

IRRITATION=16.7-110. CHRONIC-SODIUM NITRITE CAUSES NON-TRA

NSMISSABLE EFFECTS IN THE OFFSPRING OF TREATED PARENTS. BACTERIAL

MUTATION STUDIES; POSITIVE. TUMORIGENIC; EQUIVOCAL.

Explanation of Carcinogenicity:MFR LISTED NO INFORMATION ABOUT THE CARCINOGENICITY OF THIS MATERIAL. HMIS DOES NOT EXPECT IT TO BE CARCINOGENIC.

Effects of Overexposure:SODIUM NITRITE CAUSES FORMATION OF NETHAEMOGLOBINAEMIA LEADING TO CYANOSIS & POSSIBLE DEATH IF INGESTED REPEATED INGESTION OF SMALL AMOUNTS CAUSES BLOOD PRESSURE TO DROP, RAPID PULSE, HEADACHE & VISUA L DISTUBANCES. CAUSES CNS EFFECTS (EG. HEADACHE, TR

EMORS, DROWSINESS & CONVULSIONS).

Medical Cond Aggravated by Exposure:SODIUM NITRITE: PREGNANT WOMAN ARE PARTICULARLY SENSITIVE TO METHAEMOGLOVINAEMIA.

First Aid:EYE:FLUSH W/WATER, 15 MIN. CALL PHYSICIAN. SKIN:FLUSH W/WATER 15 MIN. INGESTED:INDUCE VOMITING. GIVE WATER. CALL PHYSICIAN AT ONCE. INHALE:REMOVE TO FRESH AIR. TREAT SYMPTOMS. CALL PHYSICIAN. CAUTION: IF UNCONSCIOUS, DIFFICULTY BREATHING, OR CONVULSIO NS. DO

NOT INDUCE VOMITING OR GIVE WATER. PHYSICIAN'S NOTE:BASED ON PATIENTS REACTIONS, USE YOUR JUDGEMENT TO CONTROL SYMPTOMS AND CLINICAL CONDITIONS

========= Fire Fighting Measures ==============

Flash Point:NONE

Fire Fighting Procedures: NO INFORMATION GIVEN BY MFR ON MSDS. HMIS: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING FIRE.

Unusual Fire/Explosion Hazard: MAY EVOLVE OXIDES OF NITROGEN UNDER FIRE.

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====== Accidental Release Measures ========== Spill Release Procedures: CONTAIN W/ABSORBENT MATERIAL, SUCH AS DUST, CLAY, SOIL OR OTHER COMMERCIALLY AVAILABLE ABSORBENT. SHOVEL RECLAIMED LIQUID & ABSORBENT INTO DRUMS FOR DISPOSAL. REFER TO **CERCLA IN SECTION 14.** Neutralizing Agent: NO INFORMATION GIVEN BY MFR ON MSDS. ============= Handling and Storage ========================== Handling and Storage Precautions: NO INFORMATION GIVEN BY MFR ON MSDS. Other Precaution s:NO INFORMATION GIVEN BY MFR ON MSDS. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: RESPIRATORY PROTECTION IS NOT NORMALLY NEEDED SINCE VILITILITY & TOXICITY ARE LOW. USE A PRESSURE-DEMAND SELF-CONTAINED BREATHING APPARATUS FOR ENTRY INTO TANKS, VESSELS & SPACES WITH INADEQUATE VENTI LATION. Ventilation: GENERAL VENTILATION IS RECOMMENDED Protective Gloves: IMPERMEABLE Eye Protection: CHEMICAL SPLASH GOGGLES Other Protective Equipment: AVAI LABILITY OF EYE WASH STATION AND SAFETY SHOWER IS RECOMMENDED. Work Hygienic Practices: IF CLOTHING IS CONTAMINATED, REMOVE CLOTHING & THOROUGHLY WASH THE EFFECTED AREA. LAUNDER CLOTHING BEFORE REUSE Supplemental Safety and Health NONE

========= Physical/Chemical Properties =============

HCC:D1

NRC/State Lic Num:NONE Boiling Pt:B.P. Text:212F/100C Melt/Freeze Pt:M.P/F.P Text:-20F,-29C Spec Gravity: 1.12 - 1.16

pH:11.5

Solubility in Water: COMPLETELY

Appearance and Odor:CLE

========= Stability and Reactivity Data ===========
Stability Indicator/Materials to Avoid:YES
STRONG ACIDS (GENERATE HEAT,BOILING,SPATTERING,TOXIC FUMES),AMINES (MAY
FORM N-NITROSOAMINES, POSSIBLE CARCINOGENS.)
Stability Condition to Avoid:NO INFORMATION GIVEN BY MFR ON MSDS.
Hazardous Decomposition Products:IN EVENT OF COMBUSTION, CARBON
DIOXIDE, CARBON MONOXIDE, AND NITROGEN OXIDES MAY BE FORMED. DO NOT
BREATHE SMOKE/ FUMES.

======== Disposal Considerations =============

AR TO HAZY DEEP RED LIQUID, NO ODOR

Waste Disposal Methods:THIS PRODUCT DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DEFINED UNDER RCRA 40CFR261. AS A NON-HAZARDOUS LIQUID WASTE,SOLIDIFY IT BEFORE DISPOSAL TO AN INDUSTRIAL WASTE LANDFILL. IT CAN ALSO BE D EEP-WELL INJECTED I/A/W FEDERAL/STATE/LOCAL REGS.

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