

NALCO CHEMICAL COMANY -- NALCOOL 2000 COOLING TREATMENT -- 6850-01-085-4718

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

Product ID:NALCOOL 2000 COOLING TREATMENT

MSDS Date:05/13/1992

FSC:6850

NIIN:01-085-4718

MSDS Number: BGLCD

=== 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:INDUSTRIAL SALES AND SERVICE CO

Address:12 SUNSET WAY SUITE 206 B

Box:City:HENDERSON

State:NV

ZIP:89014

Country:US

Phone:702-456-5357

CAGE:0DHS4

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

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

Ingred Name:SO

DIUM 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
Other REC Limits:NONE SPECIFIED

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 =====

LD50 LC50 Mixture:LD50 (ORAL ALBINO RAT) IS 3,362 MG/KG
Routes of Entry: Inhalation:YES Skin:YES In

gestion: YES

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

Health Hazards Acute and Chronic: ACUTE-ANIMAL STUDIES WITH A 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-TRANSMISSIBLE 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 METHAEMOGLOBINAEMIA LEADING TO CYANOSIS & POSSIBLE DEATH IF INGESTED REPEATED INGESTION OF SMALL AMOUNTS CAUSES BLOOD PRESSURE TO DROP, RAPID PULSE, HEADACHE & VISUAL DISTURBANCES. CAUSES CNS EFFECTS (EG. HEADACHE, TREMORS, DROWSINESS & CONVULSIONS).

Medical Condition Aggravated by Exposure: SODIUM NITRITE: PREGNANT WOMEN ARE PARTICULARLY

SENSITIVE TO METHAEMOGLOBINAEMIA.

===== First Aid Measures =====

First Aid: EYE: FLUSH WITH WATER, 15 MIN. CALL PHYSICIAN. SKIN: FLUSH WITH 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 CONVULSIONS, 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.

===== Accidental Release Measures =====

Spill Release Procedures: CONTAIN WITH ABSORBENT MATERIAL,

SUCH AS

DUST,CLAY,SOIL OR OTHER COMMERCIALY 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 Precautions:NO INFORMATION GIVEN BY MFR ON MSDS.

===== Exposure Controls/Personal Protection =====

Respirato

ry 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:AVAILABILITY 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:N1

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:CLEAR TO HAZY DEEP RED LIQUID, NO ODOR

===== Stability and Reactivity Data =====

Stability In

icator/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 =====

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 DEEP-WELL INJECTED I/A/W FEDERAL/STATE/LOCAL REGS.

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