

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

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===== 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

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===== 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 Measures =====

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 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:

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. LAUNDRER 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

AR TO HAZY DEEP RED LIQUID, NO ODOR

===== 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.

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===== 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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