

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

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

Product ID:NALCOOL 2000 COOLING TREATMENT

MSDS Date:05/13/1987

FSC:6850

NIIN:01-085-4717

MSDS Number: BGLCC

=== Responsible Party ===

Company Name:NALCO CHEMICAL COMPANY

Address:ONE NALCO CENTER

Box:NAPERV

City:NAPERVILLE

State:IL

ZIP:60566-1024

Country:US

Info Phone Num:312-961-9500

Eme

rgency Phone Num:312-920-1510 (24 HOURS)

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

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

Ingred Name:SODIUM NITRITE (SARA II

l)  
CAS:7632-00-0  
RTECS #:RA1225000  
Fraction by Wt: 1-10%  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

Ingred Name:SODIUM MERCAPTOBENZOTHAZOLE  
CAS:2492-26-4  
RTECS #:DL6825000  
Fraction by Wt: 1-10%

Ingred Name:SODIUM TETRABORATE, DECAHYDRATE  
CAS:1303-96-4  
RTECS #:VZ2275000  
Fraction by Wt: 1-10%  
OSHA PEL:10 MG/M3  
ACGIH TLV:5 MG/M3; 9192

Ingred Name:NITRATES (TYPE NOT SPECIFIED)

Ingred Name:SILICATES (TYPE NOT SPECIFIED)

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

LD50 LC5  
0 Mixture:ORAL RAT: 3,362 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Health Hazards Acute and Chronic:ACUTE: IRRITATION OF EYES, SKIN,  
RESPIRATORY AND G. I. TRACT. CHRONIC: SODIUM NITRITE: ANIMAL STUDY  
HAS SHOWN REPRODUCTIVE EFFECTS IN THE OFFSPRING.  
Effects of Overexposure:EYES AND SKIN: IRRITATION. INGESTION: KIDNEY  
DAMAGE, CAN BE HARMFUL OR FATAL. NANO\*2: CAUSES FORMATION OF  
METHAEMOGLOBINAEMIA LEADING TO CYANOSIS AND POSSIBLE DEATH IF  
INGESTED. REPE  
ATED INGEST: BLO OD PRESSURE DROP, RAPID PULSE, CNS  
EFFECTS; HEADACHE, TREMORS, DROWSINESS, & CONVULSIONS.  
Medical Cond Aggravated by Exposure:SODIUM NITRITE: PREGNANT WOMEN ARE  
PARTICULARLY SENSITIVE TO METHAEMOGLOVINAEMIA.

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

First Aid:SKIN:WASH W.SOAP & H\*2O EYES:FLUSH W. H\*2O. INGESTED:GIVE 2  
GLASSES H\*2O; INDUCE VOMITING.CALL A PHYSICIAN. INHALE:REMOVE TO  
FRESH AIR. GIVE CPR/OXYGEN IF NEED. KEEP WARM & QUIET

. REMOVE  
CONTAMINATED CLOTHING. IF UNCONS DO NOT TAKE ANYTHING BY MOUTH.

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

Flash Point:NONE  
Extinguishing Media:EXTINGUISH WITH AGENT SUITABLE FOR SURROUNDING FIRE  
Fire Fighting Procedures:WEAR SELF-CNTD BRTHG,APP H\*20 SPRAY TO COOL  
CONTR.  
Unusual Fire/Explosion Hazard:MAY EVOLVE OXIDES OF NITROGEN UNDER FIRE.

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

Spill Release Procedures:WEAR PROTECTIVE  
EQUIP.PROVIDE VENTILATION;SM  
SPILLS(LIQ):CONTAIN W/ABSRBNT MATL,SUCH AS DUST,CLAY,SOIL OR OTHER  
INERT ABSORBENT.SHOVEL RECLAIMD WASTE INTO RECVRY DRUM FOR  
DISPOSAL;LG SPILLS:DIKE TO PR EVENT FURTHR MOVMT & RECLAIM INTO  
SALVAGE TANKS.

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN COOL,DRY,WELL VENTILATED  
AREA. PROTECT FROM PHYSICAL DAMAGE.AVOID ANY PHYSICAL CONTACT. KEEP  
CONTAINERS TIGHTLY CLOSED  
Other Pre  
cautions:WARNING!HARMFUL IF SWALLOWED.DO NOT TAKE  
INTRNLLY.AVOID CONTACT W/EYE,&PROLNGD/REPEATD SKIN CONTCT;EMPTY  
CONTNR MAY CONTAIN RESIDUAL PROD;WASH CONTMNTD CLOTHG/AREA.DISCARD  
CONTMNTD SHOES/CLOTH

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

Respiratory Protection:NONE SHOULD BE NEEDED  
Ventilation:GENERAL VENTILATION IS RECOMMENDED  
Protective Gloves:IMPERMEABLE  
Eye Protection:CHEM SPLASH GOGGLES  
Other Protective Equipment:FULL WORK CLOTHING TO PREVENT RE  
PEATED OR  
PROLONGED CONTACT.  
Supplemental Safety and Health  
ATED 24JAN,86 WHICH CONFORMS TO OSHA HAZ COMMUNICATION STDS; PH OF SOLN  
RANGES:11.6-11.8;ALSO CONTAINS WATER; PER MSDS,NO SPECIFIC ANTIDOTE  
IS KNOWN,PHYSICIAN'S JUDGMNT IS OK.

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

HCC:N1  
Boiling Pt:B.P. Text:>212F,100C  
Vapor Pres:17  
Spec Gravity:1.13  
Solubility in Water:COMPLETE  
Appearance and Odor:RED LIQUID;NO ODOR

===== Stability and Reactivi

ty Data =====

Stability Indicator/Materials to Avoid: YES

STRONG ACIDS, AMINES.

Stability Condition to Avoid: NOT KNOWN

Hazardous Decomposition Products: IN THE EVENT OF COMBUSTION: CO, CO<sup>2</sup>,  
OXIDES OF NITROGEN MAY BE FORMED.

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

Waste Disposal Methods: PER MFR, IF THIS PRODUCT BECOMES A WASTE, IT DOES  
NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DEFINED UNDER RCRA; AS  
A NON-HAZARDOUS LIQ WASTE, IT SHOULD BE SOLID  
IFD BEFORE DISPOSAL TO  
A SANITARY LANDFILL. CAN BE DEEP-WELL INJECTED IAW FED/ST/LOC REGS

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