

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 MERCAPTOBENZOTHIAZOLE
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 FURTHER 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*2,
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

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify
and

assume responsibility for the suitability of this information to their
particular situation.