

DOD Hazardous Materials Information System
DoD 6050.5-L
AS OF July 1998

FSC: 6850
NIIN: 00N076194
Manufacturer's CAGE: 89524
Part No. Indicator: A
Part Number/Trade Name: 1720 OXYGEN SCAVENGER

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General Information
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Item Name:
Company's Name: NALCO CHEMICAL CO
Company's Street: ONE NALCO CENTER
Company's P. O. Box:
Company's City: NAPERVILLE
Company's State: IL
Company's Country: US
Company's Zip Code: 60563-1198
Company's Emerg Ph #: 800-462-5378
Company's Info Ph #: 708-305-1000
Distributor/Vendor # 1:
Distributor/Vendor # 1 Cage:
Distributor/Vendor # 2:
Distributor/Vendor # 2 Cage:
Distributor/Vendor # 3:
Distributor/Vendor # 3 Cage:
Distributor/Vendor # 4:
Distributor/Vendor # 4 Cage:
Safety Data Action Code:
Safety Focal Point: N
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SMJ
Date MSDS Prepared: 27FEB96
Safety Data Review Date: 29JAN97
Supply Item Manager:
MSDS Preparer's Name: WILLIAM S UTLEY
Preparer's Company: SAME
Preparer's St Or P. O. Box:
Preparer's City:
Preparer's State:
Preparer's Zip Code:
Other MSDS Number:
MSDS Serial Number: CCYTC
Specification Number:
Spec Type, Grade, Class:
Hazard Characteristic Code:
Unit Of Issue:
Unit Of Issue Container Qty:
Type Of Container:
Net Unit Weight:

Report for NIIN: 00N076194

NRC/State License Number:
Net Explosive Weight:
Net Propellant Weight-Ammo:
Coast Guard Ammunition Code:

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Ingredients/Identity Information
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Proprietary: NO
 Ingredient: COBALT (II) SULFATE (1:1); (COBALT SULFATE)
 Ingredient Sequence Number: 01
 Percent: N/K
 Ingredient Action Code:
 Ingredient Focal Point: N
 NIOSH (RTECS) Number: GG3100000
 CAS Number: 10124-43-3
 OSHA PEL: 0.05 MG C0/M3
 ACGIH TLV: 0.05 MG C0/M3
 Other Recommended Limit: N/K

Proprietary: NO
 Ingredient: POTASSIUM BISULFITE
 Ingredient Sequence Number: 02
 Percent: 1-5
 Ingredient Action Code:
 Ingredient Focal Point: N
 NIOSH (RTECS) Number: 1001470PB
 CAS Number: 7773-03-7
 OSHA PEL: N/K (FP N)
 ACGIH TLV: N/K (FP N)
 Other Recommended Limit: N/K

Proprietary: NO
 Ingredient: SODIUM BISULFITE (1:1); (SODIUM BISULFITE) (SARA III) (CERCLA)
 Ingredient Sequence Number: 03
 Percent: 20-40
 Ingredient Action Code:
 Ingredient Focal Point: N
 NIOSH (RTECS) Number: VZ2000000
 CAS Number: 7631-90-5
 OSHA PEL: 5 MG/M3
 ACGIH TLV: 5 MG/M3
 Other Recommended Limit: N/K

Proprietary: NO
 Ingredient: WATER
 Ingredient Sequence Number: 04
 Percent: N/K
 Ingredient Action Code:
 Ingredient Focal Point: N
 NIOSH (RTECS) Number: ZC0110000
 CAS Number: 7732-18-5
 OSHA PEL: N/K (FP N)
 ACGIH TLV: N/K (FP N)

Report for NIIN: 00N076194

Other Recommended Limit: N/K

Proprietary: NO
 Ingredient: HAZ DECOMP PROD: VAPS FROM NEUTRALIZING AMINES, & MAY PRDCE A
 VISIBLE CLOUD OF AMINE SALT PARTICULATE. IN THE (ING 6)
 Ingredient Sequence Number: 05
 Percent: N/K
 Ingredient Action Code:
 Ingredient Focal Point: N
 NIOSH (RTECS) Number: 9999999ZZ
 CAS Number:

OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: ING 5: EVENT OF COMBUST, SO*X, H*2S MAY BE FORMED. DO NOT
BREATHE SMOKE/FUMES. WEAR SUITABLE PROTECTIVE EQUIPMENT.
Ingredient Sequence Number: 06
Percent: N/K
Ingredient Action Code:
Ingredient Focal Point: N
NIOSH (RTECS) Number: 9999999ZZ
CAS Number:
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: SPILL PROC: DRUMS/TANK TRUCK FOR DISP. FOR LGE INDOOR SPILLS,
EVACUATE EMPLOYEES & VENT AREA. THOSE RESPONSIBLE (ING 8)
Ingredient Sequence Number: 07
Percent: N/K
Ingredient Action Code:
Ingredient Focal Point: N
NIOSH (RTECS) Number: 9999999ZZ
CAS Number:
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: ING 7: FOR CONTROL AND RECOVERY SHOULD WEAR THE PROTECTIVE
EQUIPMENT SPECIFIED IN CONTROL MEASURES SECTION.
Ingredient Sequence Number: 08
Percent: N/K
Ingredient Action Code:
Ingredient Focal Point: N
NIOSH (RTECS) Number: 9999999ZZ
CAS Number:
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE
Other Recommended Limit: N/K

Report for NIIN: 00N076194

Proprietary: NO
Ingredient: PROT GLOVES: NITRILE, PVC, NATURAL RUBBER, VITON, AND BUTYL
(COMPATIBLE STUDIES HAVE NOT BEEN PERFORMED).
Ingredient Sequence Number: 09
Percent: N/K
Ingredient Action Code:
Ingredient Focal Point: N
NIOSH (RTECS) Number: 9999999ZZ
CAS Number:
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE
Other Recommended Limit: N/K

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Physical/Chemical Characteristics
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Appearance And Odor: CLEAR PINK LIQUID, PUNGENT ODOR
 Boiling Point: 205F,96C
 Melting Point: 11F,-12C
 Vapor Pressure (MM Hg/70 F): N/K
 Vapor Density (Air=1): N/K
 Specific Gravity: 1.22-1.28
 Decomposition Temperature: N/K
 Evaporation Rate And Ref: N/K
 Solubility In Water: COMPLETELY
 Percent Volatiles By Volume: N/K
 Viscosity:
 pH: SUPDAT
 Radioactivity:
 Form (Radioactive Matl):
 Magnetism (Milligauss):
 Corrosion Rate (IPY): N/K
 Autoignition Temperature:

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 Fire and Explosion Hazard Data
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Flash Point: NONE
 Flash Point Method: PMCC
 Lower Explosive Limit: N/K
 Upper Explosive Limit: N/K
 Extinguishing Media: NOT APPLICABLE. USE MEDIA SUITABLE FOR SURROUNDING
 FIRE (FP N).
 Special Fire Fighting Proc: WEAR NIOSH APPROVED SCBA & FULL PROTECTIVE
 EQUIPMENT (FP N).
 Unusual Fire And Expl Hazrds: MAY EVOLVE SO*X UNDER FIRE CONDITIONS.

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 Reactivity Data
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Stability: YES
 Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.
 Materials To Avoid: AVOID CONT W/STRONG OXIDIZERS (E.G., CHLORINE,
 PEROXIDES, CHROMATES, NITRIC ACID, PERCHLORATES, CONC OXYGEN, (SUP DAT)
 Hazardous Decomp Products: EVOLVES SO*2 WHEN OPEN TO ATM. RATE OF SO*2

Report for NIIN: 00N076194

EVOLUTION INCREASES W/TEMP &/TRANSFER OF PROD. SO*2 MAY REACT WITH (ING 5)
 Hazardous Poly Occur: NO
 Conditions To Avoid (Poly): NOT RELEVANT.

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 Health Hazard Data
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LD50-LC50 Mixture: LD50 (ORAL RAT): 4112 MG/KG.
 Route Of Entry - Inhalation: YES
 Route Of Entry - Skin: YES
 Route Of Entry - Ingestion: NO
 Health Haz Acute And Chronic: ACUTE: EYES: CAN CAUSE MILD, SHORT-LASTING
 IRRIT. SKIN: CAN CAUSE MILD, SHORT-LASTING IRRIT. INGEST: CAN BE HARMFUL.
 INHAL: MAY CAUSE IRRIT TO RESP TRACT & LUNGS. TOX STUDIES: INGEST OF
 SULFITE CAN CAUSE ALLERGIC RXN IN SENSITIVE INDIVIDUALS. RESULTANT SYMPS
 CAN INCL DFCLTY IN BRTHG, FLUSHED SKIN & RASH.
 Carcinogenicity - NTP: NO
 Carcinogenicity - IARC: YES
 Carcinogenicity - OSHA: NO
 Explanation Carcinogenicity: COBALT SULFITE: IARC MONOGRAPHS ON EVALUATION
 OF CARCINOGENIC RISK OF CHEMICALS TO MAN, VOL 52, PG 363, 1991: GROUP 2B.
 Signs/Symptoms Of Overexp: A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY

ANY SYMPTOMS FROM EXPOSURE NOT PREVIOUSLY MENTIONED.

Med Cond Aggravated By Exp: A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY WORSENING OF EXISTING CONDITIONS.

Emergency/First Aid Proc: EYES: FLUSH W/WATER FOR AT LEAST 15 MIN. CALL MD. SKIN: FLUSH W/WATER FOR 15 MIN. INGEST: INDUCE VOMIT. GIVE WATER. CALL MD AT ONCE. INHAL: REMOVE TO FRESH AIR. TREAT SYMPS. CALL MD AT ONCE. NOTE TO MD: BASED ON INDIVIDUAL RXNS OF PATIENT, MD'S JUDGMENT SHOULD BE USED TO CTL SYMPS & CLINICAL CNDTN. CAUTION: IF UNCON, HAVING TROUBLE BRTHG/IN CONVULSIONS, DO NOT INDUCE VOMIT/GIVE WATER.

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 Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: SML LIQ SPILLS: CONTAIN W/ABSORB MATL, SUCH AS CLAY, SOIL/ANY COMMERCIALY AVAIL ABSORB. SHOVEL RECLAIMED LIQ & ABSORB INTO RECOVERY/SALVAGE DRUMS FOR DISP. LGE LIQ SPILLS: DIKE TO PVNT FURTHER MOVEMENT & RECLAIM INTO RECOVERY/SALVAGE (ING 7)

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: AS NON-HAZ WASTE LIQ WASTE, PROD SHOULD BE SOLIDIFIED W/STABILIZING AGENTS (SUCH AS SAND, FLY ASH/CEMENT) SO THAT NO FREE LIQ REMAINS BEFORE DISP TO INDUS WASTE LANDFILL. A NON-HAZ LIQ WASTE CAN ALSO BE DEEP-WELL INJECTED I/A/W LOC, STATE & FED REGS.

Precautions-Handling/Storing: EMPTY CONTAINERS MAY CONTAIN RESIDUAL PRODUCT. DO NOT REUSE CONTAINER UNLESS PROPERLY RECONDITIONED.

Other Precautions: NONE SPECIFIED BY MANUFACTURER.
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Control Measures
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Respiratory Protection: IF IT IS POSS TO GENERATE SIGNIFICANT LEVELS OF VAPS/MISTS, A NIOSH APPRVD/EQUIVALENT RESP IS REC. FOR LGE SPILLS, ENTRY INTO LGE TANKS, VESSELS/ENCLSD SML SPACES W/INADEQ VENT, A NIOSH APPRVD, POSS PRESS, SCBA IS RECOMMENDED.

Ventilation: GENERAL VENTILATION IS RECOMMENDED. ADDITIONALLY, LOC EXHST

Report for NIIN: 00N076194

VENT IS RECOMMENDED WHERE VAPS/MISTS MAY BE RELEASED.

Protective Gloves: IMPERMEABLE GLOVES (NEOPRENE, (ING 9)

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGLES (FP N).

Other Protective Equipment: EMERGENCY EYEWASH AND DELUGE SHOWER MEETING ANSI DESIGN CRITERIA (FP N).

Work Hygienic Practices: IF CLOTHING IS CONTAMINATED, REMOVE CLOTHING & THORO WASH AFFECTED AREA. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Suppl. Safety & Health Data: PH: 3.5-4.1. MATLS TO AVOID: PERMANGANATES) WHICH CAN GENERATE HEAT, FIRES, EXPLO & RELEASE OF TOX FUMES. AVOID CONT W/ STRONG ACIDS (E.G., SULFURIC, PHOSPHORIC, NITRIC, HYDROCHLORIC, CHROMIC, SULFONIC) WHICH CAN GENERATE HEAT, SPLATTERING/BOILING & RELEASE OF TOX FUMES.
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Transportation Data
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Transportation Action Code:

Transportation Focal Point:

Trans Data Review Date:

DOT PSN Code:

DOT Symbol:

DOT Proper Shipping Name:

DOT Class:

DOT ID Number:

DOT Pack Group:

DOT Label:

DOT/DoD Exemption Number:

IMO PSN Code:
 IMO Proper Shipping Name:
 IMO Regulations Page Number:
 IMO UN Number:
 IMO UN Class:
 IMO Subsidiary Risk Label:
 IATA PSN Code:
 IATA UN ID Number:
 IATA Proper Shipping Name:
 IATA UN Class:
 IATA Subsidiary Risk Class:
 IATA Label:
 AFI PSN Code:
 AFI Symbols:
 AFI Prop. Shipping Name:
 AFI Class:
 AFI ID Number:
 AFI Pack Group:
 AFI Label:
 AFI Special Prov:
 AFI Basic Pac Ref:
 MMAC Code:
 N.O.S. Shipping Name:
 Additional Trans Data:

Report for NIIN: 00N076194

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Disposal Data

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Disposal Data Action Code:
 Disposal Data Focal Point:
 Disposal Data Review Date:
 Rec # For This Disp Entry:
 Tot Disp Entries Per NSN:
 Landfill Ban Item:
 Disposal Supplemental Data:
 1st EPA Haz Wst Code New:
 1st EPA Haz Wst Name New:
 1st EPA Haz Wst Char New:
 1st EPA Acute Hazard New:
 2nd EPA Haz Wst Code New:
 2nd EPA Haz Wst Name New:
 2nd EPA Haz Wst Char New:
 2nd EPA Acute Hazard New:
 3rd EPA Haz Wst Code New:
 3rd EPA Haz Wst Name New:
 3rd EPA Haz Wst Char New:
 3rd EPA Acute Hazard New:

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Label Data

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Label Required: YES
 Technical Review Date: 29JAN97
 Label Date: 29JAN97
 MFR Label Number:
 Label Status: G
 Common Name: 1720 OXYGEN SCAVENGER
 Chronic Hazard: YES
 Signal Word: WARNING!
 Acute Health Hazard-None:

Acute Health Hazard-Slight:
Acute Health Hazard-Moderate: X
Acute Health Hazard-Severe:
Contact Hazard-None:
Contact Hazard-Slight:
Contact Hazard-Moderate: X
Contact Hazard-Severe:
Fire Hazard-None: X
Fire Hazard-Slight:
Fire Hazard-Moderate:
Fire Hazard-Severe:
Reactivity Hazard-None: X
Reactivity Hazard-Slight:
Reactivity Hazard-Moderate:
Reactivity Hazard-Severe:
Special Hazard Precautions: ACUTE: EYES: CAN CAUSE MILD, SHORT-LASTING IRRITATION. SKIN: CAN CAUSE MILD, SHORT-LASTING IRRITATION. INGESTION: CAN BE HARMFUL. INHALATION: MAY CAUSE IRRITATION TO RESPIRATORY TRACT AND LUNGS. TOXIC STUDIES: INGESTION OF SULFITE CAN CAUSE ALLERGIC REACTION IN

Report for NIIN: 00N076194

SENSITIVE INDIVIDUALS. RESULTANT SYMPTOMS CAN INCLUDE DIFFICULTY IN BREATHING, FLUSHED SKIN AND RASH. CHRONIC: CANCER HAZARD. CONTAINS COBALT SULFITE, WHICH IS LISTED AS AN ANIMAL CARCINOGEN (FP N).

Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: NALCO CHEMICAL CO
Label Street: ONE NALCO CENTER
Label P.O. Box:
Label City: NAPERVILLE
Label State: IL
Label Zip Code: 60563-1198
Label Country: US
Label Emergency Number: 800-462-5378
Year Procured: