

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

FSC: 6850  
NIIN: 00N024009  
Manufacturer's CAGE: 89524  
Part No. Indicator: A  
Part Number/Trade Name: SOLUTION S0277 H-3 TOTAL HARDN

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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: 60566-1024  
Company's Emerg Ph #: 708-920-1510  
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: 23MAY89  
Safety Data Review Date: 02JAN92  
Supply Item Manager:  
MSDS Preparer's Name: JOHN J. KASPER  
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: BLYWY  
Specification Number:  
Spec Type, Grade, Class:  
Hazard Characteristic Code: N1  
Unit Of Issue:  
Unit Of Issue Container Qty:  
Type Of Container:  
Net Unit Weight:

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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: NON-HAZARDOUS INGREDIENTS.  
 Ingredient Sequence Number: 01  
 Percent: N/K  
 Ingredient Action Code:  
 Ingredient Focal Point: N  
 NIOSH (RTECS) Number: 1000314NH  
 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: VIOLET PURPLE POWDER, ODORLESS.  
 Boiling Point: N/K  
 Melting Point: N/K  
 Vapor Pressure (MM Hg/70 F): N/K  
 Vapor Density (Air=1): N/K  
 Specific Gravity: N/K  
 Decomposition Temperature: N/K  
 Evaporation Rate And Ref: N/K  
 Solubility In Water: PARTIALLY  
 Percent Volatiles By Volume: N/K  
 Viscosity:  
 pH: N/K  
 Radioactivity:  
 Form (Radioactive Matl):  
 Magnetism (Milligauss): N/P  
 Corrosion Rate (IPY): N/K  
 Autoignition Temperature:

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Fire and Explosion Hazard Data

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Flash Point: NOT APPLICABLE  
 Flash Point Method: N/P  
 Lower Explosive Limit: N/A  
 Upper Explosive Limit: N/A  
 Extinguishing Media: MEDIA SUITABLE FOR SURROUNDING FIRE CONDITIONS (FP N).  
 Special Fire Fighting Proc: USE NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N).  
 Unusual Fire And Expl Hazrds: NONE.

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Reactivity Data

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Stability: YES  
 Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.  
 Materials To Avoid: NONE KNOWN.  
 Hazardous Decomp Products: NONE SPECIFIED BY MANUFACTURER.  
 Hazardous Poly Occur: NO  
 Conditions To Avoid (Poly): NOT RELEVANT.

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Health Hazard Data

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LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.  
 Route Of Entry - Inhalation: NO

Route Of Entry - Skin: NO
Route Of Entry - Ingestion: YES
Health Haz Acute And Chronic: EYE: MAY CAUSE IRRITATION WITH PROLONGED CONTACT. SKIN: NON-IRRITATING.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT.
Signs/Symptoms Of Overexp: SEE HEALTH HAZARDS.
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
Emergency/First Aid Proc: SKIN: FLUSH CONT AREA W/H\*20. EYE: FLUSH W/ H\*20 FOR AT LEAST 15 MIN. INHAL: REMOVE FROM EXPOS. SUPPORT BRTHG (GIVE ARTF RESP/O\*2). CALL MD (FP N). INGEST: CALL MD IMMED (FP N). CAUTION: IF UNCON, HAVING TROUBLE BRTHG/IN CONVULSIONS, DO NOT INDUCE VOMIT/GIVE H\*20. NOTE TO PHYS: NO SPECIFIC ANTIDOTE IS KNOWN. BASED ON INDIV RXNS OF PATIENT, PHYS JUDGMENT SHD BE USED TO CNTRL SYMP & CLINICAL CNDTN.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: SOLID SPILLS: SWEEP OR VACUUM UP AND PLACE IN GARBAGE COLLECTION CONTAINER.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: IF PROD BECOMES WASTE, IT DOES NOT MEET CRITERIA OF HAZ WASTE DEFINED UNDER RCRA 40 CFR 261, SINCE IT DOES NOT HAVE CHARACT OF SUBPART C, (I.E. D001 THRU D017) NOR IS IT LISTED UNDER SUBPART D. AS NON-HAZ SOLID WASTE, IT CAN BE DISP OF IN (SUP DATA)
Precautions-Handling/Storing: NONE SPECIFIED BY MANUFACTURER.
Other Precautions: DO NOT TAKE INTERNALLY. AVOID CONTACT WITH SKIN AND EYES.

Control Measures

Respiratory Protection: RESPIRATORY PROTECTION NOT NORMALLY NEEDED. USE NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N).
Ventilation: IF SIGNIFICANT DUSTING OCCURS, LOCAL EXHAUST VENTILATION IS RECOMMENDED.
Protective Gloves: IMPERVIOUS GLOVES (FP N).
Eye Protection: CHEMICAL WORKERS GOGGLES (FP N).
Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER.

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Work Hygienic Practices: AVOID EYE AND SKIN CONTACT, AND INHALATION OF DUST.

Suppl. Safety & Health Data: WASTE DISP METH: SANITARY LANDFILL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. EMPTY PRODUCT CONTAINERS SHOULD BE PUNCTURED, IF PLASTIC, AND PLACED IN GARBAGE COLLECTION CONTAINER.

Transportation Data

Transportation Action Code:
Transportation Focal Point: N
Trans Data Review Date: 92066
DOT PSN Code: ZZZ
DOT Symbol:
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
DOT Class: N/R
DOT ID Number: N/R
DOT Pack Group:
DOT Label: N/R

DOT/DoD Exemption Number:  
 IMO PSN Code: ZZZ  
 IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION  
 IMO Regulations Page Number: N/R  
 IMO UN Number: N/R  
 IMO UN Class: N/R  
 IMO Subsidiary Risk Label: N/R  
 IATA PSN Code: ZZZ  
 IATA UN ID Number: N/R  
 IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
 IATA UN Class: N/R  
 IATA Subsidiary Risk Class: N/R  
 IATA Label: N/R  
 AFI PSN Code: ZZZ  
 AFI Symbols:  
 AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
 AFI Class: N/R  
 AFI ID Number: N/R  
 AFI Pack Group:  
 AFI Label: N/R  
 AFI Special Prov:  
 AFI Basic Pac Ref:  
 MMAC Code:  
 N.O.S. Shipping Name:  
 Additional Trans Data: NOT REGULATED FOR TRANSPORTATION

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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:

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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: 02JAN92  
 Label Date: 02JAN92  
 MFR Label Number:  
 Label Status: G  
 Common Name: SOLUTION S0277 H-3 TOTAL HARDN  
 Chronic Hazard: YES  
 Signal Word: NONE

Acute Health Hazard-None: X  
Acute Health Hazard-Slight:  
Acute Health Hazard-Moderate:  
Acute Health Hazard-Severe:  
Contact Hazard-None: X  
Contact Hazard-Slight:  
Contact Hazard-Moderate:  
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: DO NOT TAKE INTERNALLY. AVOID EYE AND  
SKIN CONTACT.CHRONIC: MAY CAUSE EYE IRRITATION WITH PROLONGED CONTACT.  
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: 60566-1024  
Label Country: US  
Label Emergency Number: 708-920-1510

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Year Procured: