

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

FSC: 6850  
NIIN: 00N076195  
Manufacturer's CAGE: 89524  
Part No. Indicator: A  
Part Number/Trade Name: SOLUTION S0447 LH-3 TITRANT LO

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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: 23AUG95  
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: CCYTD  
Specification Number:  
Spec Type, Grade, Class:  
Hazard Characteristic Code:  
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: N/K (FP N)  
 ACGIH TLV: N/K (FP N)  
 Other Recommended Limit: N/K

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Physical/Chemical Characteristics

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Appearance And Odor: COLORLESS, ODORLESS LIQUID  
 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: COMPLETELY  
 Percent Volatiles By Volume: N/K  
 Viscosity:  
 pH: N/K  
 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: N/P  
 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: 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: NOT APPLICABLE.  
 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: YES  
 Route Of Entry - Ingestion: NO  
 Health Haz Acute And Chronic: A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY SYMPTOMS FROM EXPOSURE NOT PREVIOUSLY MENTIONED.  
 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 CONTACTED AREA WITH WATER. EYES: FLUSH WITH POTABLE WATER FOR AT LEAST 15 MINUTES. SEE MD (FP N).  
 INHALATION: REMOVE TO FRESH AIR. SUPPORT BREATHING (GIVE OXYGEN OR ARTIFICIAL RESPIRATION) (FP N). INGESTION: CALL MD IMMEDIATELY (FP N).

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 Precautions for Safe Handling and Use  
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Steps If Matl Released/Spill: FLUSH TO LABORATORY DRAIN OR SEWER WITH WATER.  
 Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.  
 Waste Disposal Method: FLUSH TO LABORATORY DRAIN OR SANITARY SEWER WITH WATER. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS (FP N).  
 Precautions-Handling/Storing: DO NOT TAKE INTERNALLY.  
 Other Precautions: NONE SPECIFIED BY MANUFACTURER.

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 Control Measures  
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Respiratory Protection: RESPIRATORY PROTECTION IS NOT NEEDED. USE NIOSH APPROVED RESPIRATOR FOR EXPOSURE OF CONCERN (FP N).  
 Ventilation: GENERAL VENTILATION IS RECOMMENDED.  
 Protective Gloves: IMPERVIOUS GLOVES (FP N).  
 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: NONE SPECIFIED BY MANUFACTURER.  
 Suppl. Safety & Health Data: NONE SPECIFIED BY MANUFACTURER.

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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:

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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:

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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: SOLUTION S0447 LH-3 TITRANT LO  
Chronic Hazard: NO  
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/CHRONIC: NONE SPECIFIED BY MANUFACTURER.  
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: