

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

FSC: 6850  
NIIN: 00F019124  
Manufacturer's CAGE: 0AMV0  
Part No. Indicator: A  
Part Number/Trade Name: OIL-FLO SAFETY SOLVENT CLEANER & DEGREASER

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General Information  
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Item Name:  
Company's Name: TITAN LABORATORIES INC  
Company's Street: 1240-A MTN VIEW-ALVISO RD  
Company's P. O. Box: N/K  
Company's City: SUNNYVALE  
Company's State: CA  
Company's Country:  
Company's Zip Code: 94089  
Company's Emerg Ph #: (408) 734-2200  
Company's Info Ph #: (408) 734-2200  
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: F  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 001  
Status:  
Date MSDS Prepared: 09DEC88  
Safety Data Review Date: 22OCT91  
Supply Item Manager:  
MSDS Preparer's Name:  
Preparer's Company: TITAN LABORATORIES INC  
Preparer's St Or P. O. Box: 1240-A MTN VIEW-ALVISO RD  
Preparer's City: SUNNYVALE  
Preparer's State: CA  
Preparer's Zip Code: 94089  
Other MSDS Number:  
MSDS Serial Number: BLPLL  
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: SOLVENT NAPHTHA, PETROLEUM, LIGHT AROMATIC C8-C10 (AROMATIC  
 100)  
 Ingredient Sequence Number: 01  
 Percent: 40-70%  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: 1005111NA  
 CAS Number: 64742-95-6  
 OSHA PEL: N/K  
 ACGIH TLV: 100 PPM  
 Other Recommended Limit: 200 PPM

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Proprietary: NO  
 Ingredient: 2-BUTOXYETHANOL  
 Ingredient Sequence Number: 02  
 Percent: 2-5%  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: KJ8575000  
 CAS Number: 111-76-2  
 OSHA PEL: S, 50 PPM  
 ACGIH TLV: S, 25 PPM; 9293  
 Other Recommended Limit: 25 PPM (SKIN)

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Proprietary: NO  
 Ingredient: EMULSIFIERS  
 Ingredient Sequence Number: 03  
 Percent: N/K  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: 1000043EM  
 CAS Number:  
 OSHA PEL: N/K  
 ACGIH TLV: N/K  
 Other Recommended Limit: N/K

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Proprietary: NO  
 Ingredient: DISPERSANTS  
 Ingredient Sequence Number: 04  
 Percent: N/K  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: 1003870DD  
 CAS Number:  
 OSHA PEL: N/K

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ACGIH TLV: N/K  
 Other Recommended Limit: N/K

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Proprietary: NO  
 Ingredient: WETTING AGENTS  
 Ingredient Sequence Number: 05  
 Percent: N/K  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: 1000366WA  
 CAS Number:

OSHA PEL: N/K  
 ACGIH TLV: N/K  
 Other Recommended Limit: N/K

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 Proprietary: NO  
 Ingredient: CORROSION INHIBITORS  
 Ingredient Sequence Number: 06  
 Percent: N/K  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: 1002128CI  
 CAS Number:  
 OSHA PEL: N/K  
 ACGIH TLV: N/K  
 Other Recommended Limit: N/K

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 Proprietary: NO  
 Ingredient: PERFORMANCE ENHANCERS  
 Ingredient Sequence Number: 07  
 Percent: N/K  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: 1004387PA  
 CAS Number:  
 OSHA PEL: N/K  
 ACGIH TLV: N/K  
 Other Recommended Limit: N/K

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 Proprietary: NO  
 Ingredient: VOL ORGANIC CMPD: 522 G/L  
 Ingredient Sequence Number: 08  
 Percent: N/K  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: 9999999VO  
 CAS Number:  
 OSHA PEL: N/K  
 ACGIH TLV: N/K  
 Other Recommended Limit: N/K

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 Physical/Chemical Characteristics  
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Appearance And Odor: COLORLESS LIQUID W/SLIGHT SOLVENT ODOR W/BITTER-  
 ALMOND OR WINTERGREEN FRAGRANCE.  
 Boiling Point: 290F  
 Melting Point: N/K  
 Vapor Pressure (MM Hg/70 F): 0.078  
 Vapor Density (Air=1): 3.4  
 Specific Gravity: 0.93  
 Decomposition Temperature: N/K  
 Evaporation Rate And Ref: (BU AC - 1): <0.01  
 Solubility In Water: COMPLETE  
 Percent Volatiles By Volume: N/K  
 Viscosity:  
 pH: 7.8  
 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: 140F  
Flash Point Method: PMCC  
Lower Explosive Limit: 1.1%  
Upper Explosive Limit: 8.6%  
Extinguishing Media: WATER, CO2, DRY POWDER, OR FOAM  
Special Fire Fighting Proc: N/K  
Unusual Fire And Expl Hazrds: AUTOIGNITION TEMPERATURE: >900F. COMBUSTIBLE PRODUCT. ~

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Reactivity Data  
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Stability: YES  
Cond To Avoid (Stability): TEMPS >100F, SPARKS, OR OPEN FLAMES.  
Materials To Avoid: CAN AFFECT SOME PLASTICS, PAINTS, & FUGITIVE DYES.  
Hazardous Decomp Products: CO2, CO, & WATER VAPORS  
Hazardous Poly Occur: NO  
Conditions To Avoid (Poly): N/K

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Health Hazard Data  
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LD50-LC50 Mixture: N/K  
Route Of Entry - Inhalation: YES  
Route Of Entry - Skin: YES  
Route Of Entry - Ingestion: YES  
Health Haz Acute And Chronic: INHALATION: NAUSEA & DROWSINESS. SKIN: IRRITATION, DRYNESS, CHAPPING & DERMATITIS. INGESTION: DIARRHEA, NAUSEA, CRAMPS, UNCONSCIOUSNESS, OR DEATH. EYES: IRRITATION.  
Carcinogenicity - NTP: NO  
Carcinogenicity - IARC: NO

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Carcinogenicity - OSHA: NO  
Explanation Carcinogenicity: NONE  
Signs/Symptoms Of Overexp: INHALATION: NAUSEA & DROWSINESS. SKIN: IRRITATION, DRYNESS, CHAPPING, & DERMATITIS. INGESTION: DIARRHEA, NAUSEA, CRAMPS, UNCONSCIOUSNESS, OR DEATH. EYES: IRRITATION.  
Med Cond Aggravated By Exp: SKIN OR RESPIRATORY DISORDERS.  
Emergency/First Aid Proc: INHALATION: REMOVE TO FRESH AIR. SKIN/EYES: FLUSH W/WATER FOR 15 MINUTES. INGESTION: DON'T INDUCE VOMITING. IF VOMITING OCCURS KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION INTO LUNGS. OBTAIN MEDICAL ATTENTION IN ALL CASES.

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Precautions for Safe Handling and Use  
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Steps If Matl Released/Spill: ABSORB W/SAND, DIATOMACEOUS EARTH, SAWDUST OR SHREDDED NEWSPAPERS. DILUTE W/WATER TO ACCEPTABLE WASTE WATER RATIO OR CONTAIN W/TEMPORARY DAM & COLLECT SPILL FOR REUSE. TURNS MILKY WHITE WHEN MIXED W/WATER.  
Neutralizing Agent: N/K  
Waste Disposal Method: PURE PRODUCT MAY BE RINSED INTO SANITARY DRAIN AT A DILUTION RATIO OF 3ML PER LITER OF WATER. DISPOSE OF WASTE BY RECYCLING, CONVERTING TO BURNER FUEL, INCINERATING OR BY APPROVED DUMPING ACCORDING TO FEDERAL, STATE, & LOCAL REGULATIONS.  
Precautions-Handling/Storing: KEEP CONTAINERS CLOSED WHEN NOT IN USE. STEEL DRUMS, EVEN EMPTIED, CAN CONTAIN EXPLOSIVE VAPORS. DON'T CUT, DRILL,

GRIND OR WELD ON OR NEAR DRUMS.  
Other Precautions: KEEP PRODUCT AWAY FROM VEGETATION UNLESS WELL DILUTED.  
AVOID CONTACT W/SKIN. COMBUSTIBLE PRODUCT. MAY TURN CLOUDY IF STORED AT  
TEMPS >100F.

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Control Measures  
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Respiratory Protection: USE RESPIRATOR IF >TLV. USE W/ADEQUATE  
VENTILATION.  
Ventilation: LOCAL EXHAUST: REQUIRED  
Protective Gloves: NITRILE OR NEOPRENE  
Eye Protection: CHEMICAL SAFETY GOGGLES  
Other Protective Equipment: HAND LOTION W/LANOLIN FOR DRY HANDS.  
Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING, UNDER RINGS &  
WATCHBANDS ALSO.  
Suppl. Safety & Health Data: N/K

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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:

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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:  
 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:  
 Label Date:

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MFR Label Number:  
 Label Status: G  
 Common Name: OIL-FLO SAFETY SOLVENT CLEANER & DEGREASER  
 Chronic Hazard: N/P  
 Signal Word:  
 Acute Health Hazard-None:  
 Acute Health Hazard-Slight:  
 Acute Health Hazard-Moderate:  
 Acute Health Hazard-Severe:  
 Contact Hazard-None:  
 Contact Hazard-Slight:  
 Contact Hazard-Moderate:  
 Contact Hazard-Severe:  
 Fire Hazard-None:  
 Fire Hazard-Slight:  
 Fire Hazard-Moderate:  
 Fire Hazard-Severe:  
 Reactivity Hazard-None:  
 Reactivity Hazard-Slight:  
 Reactivity Hazard-Moderate:  
 Reactivity Hazard-Severe:  
 Special Hazard Precautions: INHALATION: NAUSEA & DROWSINESS. SKIN:  
 IRRITATION, DRYNESS, CHAPPING & DERMATITIS. INGESTION: DIARRHEA, NAUSEA,  
 CRAMPS, UNCONSCIOUSNESS, OR DEATH. EYES: IRRITATION. INHALATION: NAUSEA &  
 DROWSINESS. SKIN: IRRITATION, DRYNESS, CHAPPING, & DERMATITIS. INGESTION:  
 DIARRHEA, NAUSEA, CRAMPS, UNCONSCIOUSNESS, OR DEATH. EYES: IRRITATION.  
 Protect Eye:  
 Protect Skin:  
 Protect Respiratory:  
 Label Name: TITAN LABORATORIES INC  
 Label Street: 1240-A MTN VIEW-ALVISO RD  
 Label P.O. Box: N/K  
 Label City: SUNNYVALE  
 Label State: CA

Label Zip Code: 94089  
Label Country:  
Label Emergency Number: (408) 734-2200  
Year Procured: