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

General Information

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:

Ingredients/Identity Information
Ingredient: SOLVENT NAPHTHA, PETROLEUM, LIGHT AROMATIC C8-C10 (AROMATIC 100)
Ingredient Sequence Number: 01
Percent: 40-70%
Ingredient Action Code: F
NIOSH (RTECS) Number: 1005111NA
CAS Number: 64742-95-6
OSHA PEL: N/K
ACGIH TLV: 100 PPM
Other Recommended Limit: 200 PPM

Ingredient: 2-BUTOXYETHANOL
Ingredient Sequence Number: 02
Percent: 2-5%
Ingredient Action Code: 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)

Ingredient: EMULSIFIERS
Ingredient Sequence Number: 03
Percent: N/K
Ingredient Action Code: F
NIOSH (RTECS) Number: 1000043EM
CAS Number: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Ingredient: DISPERSANTS
Ingredient Sequence Number: 04
Percent: N/K
Ingredient Action Code: F
NIOSH (RTECS) Number: 1003870DD
CAS Number: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Ingredient: WETTING AGENTS
Ingredient Sequence Number: 05
Percent: N/K
Ingredient Action Code: F
NIOSH (RTECS) Number: 1000366WA
CAS Number:
<table>
<thead>
<tr>
<th>Proprietary: NO</th>
<th>Ingredient: CORROSION INHIBITORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingredient Sequence Number: 06</td>
<td>Percent: N/K</td>
</tr>
<tr>
<td>Ingredient Action Code:</td>
<td></td>
</tr>
<tr>
<td>Ingredient Focal Point: F</td>
<td></td>
</tr>
<tr>
<td>NIOSH (RTECS) Number: 1002128CI</td>
<td></td>
</tr>
<tr>
<td>CAS Number:</td>
<td>OSHA PEL: N/K</td>
</tr>
<tr>
<td>ACGIH TLV: N/K</td>
<td>Other Recommended Limit: N/K</td>
</tr>
</tbody>
</table>

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

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

Report for NIIN: 00F019124

<table>
<thead>
<tr>
<th>Physical/Chemical Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance And Odor: COLORLESS LIQUID W/SLIGHT SOLVENT ODOR W/BITTER-ALMOND OR WINTERGREEN FRAGRANCE.</td>
</tr>
<tr>
<td>Boiling Point: 290F</td>
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<tr>
<td>Melting Point: N/K</td>
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<tr>
<td>Vapor Pressure (MM Hg/70 F): 0.078</td>
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<tr>
<td>Vapor Density (Air=1): 3.4</td>
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<tr>
<td>Specific Gravity: 0.93</td>
</tr>
<tr>
<td>Decomposition Temperature: N/K</td>
</tr>
<tr>
<td>Evaporation Rate And Ref: (BU AC - 1): &lt;0.01</td>
</tr>
<tr>
<td>Solubility In Water: COMPLETE</td>
</tr>
<tr>
<td>Percent Volatiles By Volume: N/K</td>
</tr>
<tr>
<td>Viscosity:</td>
</tr>
<tr>
<td>pH: 7.8</td>
</tr>
<tr>
<td>Radioactivity:</td>
</tr>
<tr>
<td>Form (Radioactive Matl):</td>
</tr>
<tr>
<td>Magnetism (Milligauss):</td>
</tr>
</tbody>
</table>
Corrosion Rate (IPY): N/K
Autoignition Temperature:

Fire and Explosion Hazard Data

Flash Point: 140°F
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 Hazards: AUTOIGNITION TEMPERATURE: >900°F. COMBUSTIBLE PRODUCT.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): TEMPS >100°F, 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

Health Hazard Data

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
Carcinogenicity - OSHA: 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.

Precautions for Safe Handling and Use

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 >100°F.

Control Measures

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

Transportation Data

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:

Disposal Data

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:

Report for NIIN: 00F019124

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: