FSC: 6850
NIIN: 001889875
Manufacturer's CAGE: 7X274
Part No. Indicator: A
Part Number/Trade Name: LENS CLEANER

General Information

Item Name: CLEANING COMPOUND, OPTICAL LENS
Company's Name: MMM SUPPLY
Company's Street: 1734 HAYES AVENUE
Company's P. O. Box:
Company's City: LONG BEACH
Company's State: CA
Company's Country: US
Company's Zip Code: 90813-1145
Company's Emerg Ph #: 213-590-8633
Company's Info Ph #: 213-590-8633
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: D
Record No. For Safety Entry: 009
Tot Safety Entries This Stk#: 009
Status: SD
Date MSDS Prepared: 09APR92
Safety Data Review Date: 09APR92
Supply Item Manager: CX
MSDS Preparer's Name: DOD-HMIS (DGSC-SSH)
Preparer's Company: DEFENSE GENERAL SUPPLY CENTER
Preparer's St Or P. O. Box: 8000 JEFFERSON DAVIS HIGHWAY
Preparer's City: RICHMOND
Preparer's State: VA
Preparer's Zip Code: 23297-5680
Other MSDS Number:
MSDS Serial Number: BMGWW
Specification Number: MIL-C-43454
Spec Type, Grade, Class: TYPE II
Hazard Characteristic Code: F3
Unit Of Issue: QT
Unit Of Issue Container Qty: 1 QUART
Type Of Container: PPP-C-186
Net Unit Weight:

Report for NIIN: 001889875

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

== Ingredients/Identity Information ==

Proprietary: NO
Ingredient: ETHYL ALCOHOL (ETHANOL)
Ingredient Sequence Number: 01
Percent: 54.15
Ingredient Action Code:
Ingredient Focal Point: D
NIOSH (RTECS) Number: KQ6300000
CAS Number: 64-17-5
OSHA PEL: 1000 PPM
ACGIH TLV: 1000 PPM; 9192
Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
Ingredient: METHYL ALCOHOL (METHANOL) (SARA III)
Ingredient Sequence Number: 02
Percent: 2.85
Ingredient Action Code:
Ingredient Focal Point: D
NIOSH (RTECS) Number: PC1400000
CAS Number: 67-56-1
OSHA PEL: 5,200PPM/250STEL
ACGIH TLV: 5,200PPM/250STEL; 93
Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
Ingredient: DETERGENTS, MIL-D-16791, TYPE I
Ingredient Sequence Number: 03
Percent: 0.15
Ingredient Action Code: D
NIOSH (RTECS) Number: 1000066DT
CAS Number: 7732-18-5
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
Ingredient: WATER
Ingredient Sequence Number: 04
Percent: 42.9
Ingredient Action Code: D
NIOSH (RTECS) Number: ZC0110000
CAS Number: 7732-18-5
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED

Report for NIIN: 001889875
Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
Ingredient: SPEC CALLS FOR 57% DENATURED ALCOHOL WHICH CONSISTS OF INGREDIENTS 1 & 2 ABOVE.
Ingredient Sequence Number: 05
Percent: 57
Ingredient Action Code: D
NIOSH (RTECS) Number: 9999999ZZ
CAS Number: 7732-18-5
OSHA PEL: SEE ABOVE
ACGIH TLV: SEE ABOVE
Other Recommended Limit: NONE SPECIFIED

Physical/Chemical Characteristics

Appearance And Odor: CLEAR COLORLESS LIQUID, ALCOHOL ODOR
Boiling Point: UNKNOWN
Melting Point: UNKNOWN
Vapor Pressure (MM Hg/70 F): UNKNOWN
Vapor Density (Air=1): UNKNOWN
Specific Gravity: UNKNOWN
Decomposition Temperature: UNKNOWN
Evaporation Rate And Ref: UNKNOWN
Solubility In Water: COMPLETE
Percent Volatiles By Volume: 99.85
Viscosity: UNKNOWN
pH: N/K
Radioactivity:
Form (Radioactive Matl):
Magnetism (Milligauss): N/P
Corrosion Rate (IPY): UNKNOWN
Autoignition Temperature:

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Fire and Explosion Hazard Data
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Flash Point: 60.0F, 15.6C
Flash Point Method: TCC
Lower Explosive Limit: UNKNOWN
Upper Explosive Limit: UNKNOWN
Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.
Special Fire Fighting Proc: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.
Unusual Fire And Expl Hazards: COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

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Reactivity Data
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Stability: YES
Cond To Avoid (Stability): HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Report for NIIN: 001889875

Materials To Avoid: STRONG OXIDIZING AGENTS
Hazardous Decomp Products: CARBON MONOXIDE CAN FORM ON INCOMPLETE COMBUSTION.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT APPLICABLE

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Health Hazard Data

Page 4
LD50-LC50 Mixture: LD50 (ORAL RAT) IS UNKNOWN
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: YES
Health Haz Acute And Chronic: METHANOL, (THE DENATURANT USED IN THE ALCOHOL PORTION OF THE FORMULA) IS TOXIC CAUSING CENTRAL NERVOUS SYSTEM DEPRESSION.
TOXICITY VARIES WITH AS LITTLE AS 4 ML INGESTED BEING TOXIC. METHANOL IS VERY TOXIC TO THE OPTIC NERVE, CAUSING SIGHT DISTURBANCES AND BLINDNESS WELL BELOW THE TOXIC AMOUNT. ALSO AN IRRITANT.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.
Signs/Symptoms Of Overexp: EYE:IRRITATION. SKIN:IRRITATION, DEFATTING. INHALED:HEADACHE,DROWSINESS, LASSITUDE, LOSS OF APPETITE, INABILITY TO CONCENTRATE. INGESTED: G/I IRRITATION, NAUSEA, VOMITING, DIARRHEA, CENTRAL NERVOUS SYSTEM DEPRESSION.
Med Cond Aggravated By Exp: PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE SKIN, EYE, RESPIRATORY TRACT, LIVER OR KIDNEY MAY BE AT INCREASED RISK FROM EXPOSURE.
Emergency/First Aid Proc: EYE: FLUSH W/WATER 15 MIN, HOLD LIDS OPEN. SKIN: WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. INHALED: REMOVE TO FRESH AIR. RESTORE BREATHING IF NECESSARY. INGESTED: DO NOT INDUCE VOMITING. GIVE 2 LARGE GLASSES OF MILK OR WATER AND GET IMMEDIATE MEDICAL CARE. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. IF IRRITATION PERSISTS OR IS SEVERE, SEE A DOCTOR.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. WEAR APPROPRIATE RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING. CONTAIN SPILLED MATERIAL. TRANSFER TO SECURE CONTAINERS. WHERE NECESSARY, COLLECT USING ABSORBENT MEDIA. WASH RESIDUE WITH WATER.
Neutralizing Agent: NOT APPLICABLE.
Waste Disposal Method: DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL
121925

REGULATIONS. DGSD-SSH SUGGESTS THAT DISPOSAL MAY BE DONE BY INCINERATION.

Precautions-Handling/Storing: STORE AS A FLAMMABLE LIQUID. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.

Other Precautions: 'EMPTY' CONTAINERS MAY CONTAIN RESIDUE OR VAPORS. TREAT THEM WITH ALL THE PRECAUTIONS DUE FULL ONES.

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Control Measures
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Respiratory Protection: RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR OR RESPIRATOR FOR ORGANIC VAPOR IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FOR REGULATIONS PERTAINING TO RESPIRATOR USE.

Ventilation: MECHANICAL (GENERAL) ROOM VENTILATION IS NORMALLY ADEQUATE.

LOCAL EXHAUST MAY BE REQUIRED IF WORK AREA NOT VENTED.

Protective Gloves: NEOPRENE, NITRILE, PVC OR NATURAL RUBBER

Eye Protection: SAFETY GLASSES OR SPLASH GOGGLES

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER.

INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Suppl. Safety & Health Data: MMM SUPPLY IS OUT OF BUSINESS. MSDS IS WRITTEN AROUND THE SPECIFICATION FORMULA.

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Transportation Data
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Transportation Action Code: D

Transportation Focal Point:  D

Trans Data Review Date:   92100

DOT PSN Code:  GJJ

DOT Symbol:     

DOT Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S.  

DOT Class:  3

DOT ID Number:  UN1993

DOT Pack Group:  II

DOT Label: FLAMMABLE LIQUID

Page 6
DOT/DoD Exemption Number:
IMO PSN Code: HIN
IMO Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. o
IMO Regulations Page Number: 3230
IMO UN Number: 1993
IMO UN Class: 3.2
IMO Subsidiary Risk Label: -
IATA PSN Code: MBV
IATA UN ID Number: 1993
IATA Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. *
IATA UN Class: 3
IATA Subsidiary Risk Class:
IATA Label: FLAMMABLE LIQUID
AFI PSN Code: MBV
AFI Symbols:
AFI Prop. Shipping Name: FLAMMABLE LIQUIDS, N.O.S.
AFI Class: 3
AFI ID Number: UN1993
AFI Pack Group: II
AFI Label:
AFI Special Prov:
AFI Basic Pac Ref: 7-7
MMAC Code:

Report for NIIN: 001889875

N.O.S. Shipping Name: ETHANOL,METHANOL
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: 09APR92
Label Date:
MFR Label Number: NONE
Label Status: F
Common Name: LENS CLEANER
Chronic Hazard: N/P
Signal Word: DANGER!
Acute Health Hazard-None:
Acute Health Hazard-Slight: X
Acute Health Hazard-Moderate:
Acute Health Hazard-Severe:
Contact Hazard-None: X
Contact Hazard-Slight:
Contact Hazard-Moderate:
Contact Hazard-Severe:
Fire Hazard-None:
Fire Hazard-Slight:
Fire Hazard-Moderate:
Fire Hazard-Severe: X
Reactivity Hazard-None: X
Reactivity Hazard-Slight:
Reactivity Hazard-Moderate:
Reactivity Hazard-Severe:

Special Hazard Precautions: FLAMMABLE LIQUID AND VAPOR. KEEP AWAY FROM HEAT, SPARKS, AND FLAME. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. IN CASE OF FIRE, USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CO2.
METHANOL, (THE DENATURANT USED IN THE ALCOHOL PORTION OF THE FORMULA) IS TOXIC CAUSING CENTRAL NERVOUS SYSTEM DEPRESSION. TOXICITY VARIES WITH AS LITTLE AS 4 ML INGESTED BEING TOXIC. METHANOL IS VERY TOXIC TO THE OPTIC NERVE, CAUSING SIGHT DISTURBANCES AND BLINDNESS WELL BELOW THE TOXIC AMOUNT. ALSO AN IRRITANT. IN CASE OF SPILL: ELIMINATE SOURCES OF IGNIT
ION.
VENTILATE AREA. WEAR APPROPRIATE RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING. RECOVER OR ABSORB.
Protect Eye:
Protect Skin:
Protect Respiratory:
Label Name: MMM SUPPLY
Label Street: 1734 HAYES AVENUE
Label P.O. Box:
Label City: LONG BEACH
Label State: CA
Label Zip Code: 90813-1145
Label Country: US
Label Emergency Number: 213-590-8633
Year Procured: 1985