

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

FSC: 6505
NIIN: 011986769
Manufacturer's CAGE: 1B464
Part No. Indicator: A
Part Number/Trade Name: POLYOXYETHYLENE (20) SORBITAN MONOOLEATE (TWEEN 80)

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General Information

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Item Name: POLYSORBATE 80,USP
Company's Name: FISHER SCIENTIFIC CO CHEMICAL DIV.
Company's Street: 1 REAGENT LANE
Company's P. O. Box:
Company's City: FAIR LAWN
Company's State: NJ
Company's Country: US
Company's Zip Code: 07410
Company's Emerg Ph #: 201-796-7100
Company's Info Ph #: 201-796-7100/ FAX 201-796-7523
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: 001
Tot Safety Entries This Stk#: 003
Status: SE
Date MSDS Prepared: 01APR93
Safety Data Review Date: 26OCT94
Supply Item Manager: KX
MSDS Preparer's Name:
Preparer's Company:
Preparer's St Or P. O. Box:
Preparer's City:
Preparer's State:
Preparer's Zip Code:
Other MSDS Number:
MSDS Serial Number: BVHHX
Specification Number: UNKNOWN
Spec Type, Grade, Class:
Hazard Characteristic Code: N1
Unit Of Issue: BT
Unit Of Issue Container Qty: 100 GRAMS
Type Of Container: BOTTLE
Net Unit Weight: UNKNOWN

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

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Ingredients/Identity Information

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Proprietary: NO
 Ingredient: POLYOXYETHYLENE (20) SORBITOL MONOOLEATE
 Ingredient Sequence Number: 01
 Percent: 100.0
 Ingredient Action Code:
 Ingredient Focal Point: D
 NIOSH (RTECS) Number: WG2932500
 CAS Number: 9005-65-6
 OSHA PEL: NOT ESTABLISHED
 ACGIH TLV: NOT ESTABLISHED
 Other Recommended Limit: NONE RECOMMENDED

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Physical/Chemical Characteristics

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Appearance And Odor: YELLOW TO AMBER VISCOUS LIQUID W/ A CHARACTERISTIC ODOR.
 Boiling Point: 212F,100C
 Melting Point: N/K
 Vapor Pressure (MM Hg/70 F): 1.0MM @20C
 Vapor Density (Air=1): 1.0
 Specific Gravity: 1.08
 Decomposition Temperature: N/K
 Evaporation Rate And Ref: 1, ETHER=1.
 Solubility In Water: SOLUBLE.
 Percent Volatiles By Volume: N/K
 Viscosity: N/K
 pH: 5-7,5%
 Radioactivity:
 Form (Radioactive Matl):
 Magnetism (Milligauss): N/P
 Corrosion Rate (IPY): N/K
 Autoignition Temperature: N/K

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Fire and Explosion Hazard Data

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Flash Point: 299F,148C
 Flash Point Method: CC
 Lower Explosive Limit: N/K
 Upper Explosive Limit: N/K
 Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM. FLAMM CLASS:IIIB.
 Special Fire Fighting Proc: MOVE CNTNR FROM FIRE W/O RISK.DO NOT SCATTER SPILLED MATL W/HI PRESS WATERSTREAMS.DIKE FIRE CNTRL WATER FOR LATER DISPOSAL.AVOID BREATH HAZ VAP;KEEP UPWIND.
 Unusual Fire And Expl Hazrds: SLIGHT FIRE HAZ WHEN EXPOSED TO HEAT/FLAME. MAY BURN BUT DOES NOT IGNITE READILY.

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Reactivity Data

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Stability: YES
 Cond To Avoid (Stability): AVOID EXCESSIVE HEAT, FLAME, SPARKS, OR OPEN FLAMES.
 Materials To Avoid: STRONG OXIDIZERS (FIRE & EXPLOSION HAZARD).
 Hazardous Decomp Products: THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC OXIDES OF CARBON.
 Hazardous Poly Occur: NO
 Conditions To Avoid (Poly): NOT RELEVANT.

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 Health Hazard Data
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LD50-LC50 Mixture: LD50 (ORAL,MOUSE) = 25MG/KG.
 Route Of Entry - Inhalation: YES
 Route Of Entry - Skin: YES
 Route Of Entry - Ingestion: NO
 Health Haz Acute And Chronic: INHAL:MAY CAUSE CHEM PNEUITIS. SKIN:NON-IRRIT WHEN APPLIED UNDIL TO HUMAN SKIN FOR 48HRS.PRODUCED INFLAMM, THICKENING, NECROSIS WHEN APPLIED TO RABBITS FOR 1MON.MAY CAUSE SENS. EYE: 20% SOLN OF PH5-7 DROPPED INTO HUMAN EYES WAS WELL TOLERATED. INGEST:LF DOSES MAY CAUSE ABDOM SPASMS,DIARR,ASPIRATION MAY CAUSE CHEM PNEUITIS
 Carcinogenicity - NTP: NO
 Carcinogenicity - IARC: NO
 Carcinogenicity - OSHA: NO
 Explanation Carcinogenicity: PER MSD:CARCINOGEN STATUS:NONE.
 Signs/Symptoms Of Overexp: CHEMICAL PNEUMONITIS, ABDOMINAL SPASMS, DIARRHEA, ASPIRATION.
 Med Cond Aggravated By Exp: NONE SPECIFIED BY MFG.
 Emergency/First Aid Proc: INHAL:REMOVE TO FRESH AIR. BREATH STOPPED GIVE ART RESP. TREAT SYMPTOMATICALLY/SUPPORTIVELY. SKIN:REMOVE CONTAMIN CLOTH/SHOES IMMED. WASH W/SOAP OR MILD DETERGENT & LG AMTS OF WATER FOR @ LEAST 15-20MINS. EYE:WASH W/LG AMTS OF WATER OR NORMAL SALINE OPENING EYELIDS FOR @ ABOUT 15-20MINS. INGEST:TREAT SYMPTOMATICALLY/SUPPORTIVELY. IF VOMIT KEEP HEAD LOWER THAN HIPS. IN ALL CASES GET MED ATTN IMMED.

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 Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: STOP LEAK IF CAN W/O RISK. SM:TAKE UP W/SAND OR OTHER ABSORBENT MATL AND PLACE INTO CLEAN, DRY CONTAINER FOR LATER DISPOSAL. KEEP UNNECESSARY PEOPLE AWAY. ISOLATE HAZARD AREA AND DENY ENTRY.
 Neutralizing Agent: NONE SPECIFIED BY MFG.
 Waste Disposal Method: OBSERVE ALL LOCAL, STATE AND FEDERAL REGULATIONS.
 Precautions-Handling/Storing: OBSERVE ALL LOCAL, STATE AND FEDERAL REGULATIONS WHEN STORING OF THIS SUBSTANCE. KEEP IN TIGHTLY CLOSED CONTAINER. STORE IN COOL, DRY VENTILATED AREA.
 Other Precautions: STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

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 Control Measures
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Respiratory Protection: SPECIFIC RESP SELECTED MUST BE BASED ON CONTAMIN LEVELS FOUND IN WORKPLACE, SPECIFIC OPERATION, MUST NOT EXCEED WORKING

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LIMITS OF RESP, & MUST BE JOINTLY APPROVED BY NIOSH/NSHA.
 Ventilation: PROVIDE LOCAL EXHAUST VENTILATION SYSTEM.
 Protective Gloves: APPROPRIATE PROTECTIVE GLOVES.
 Eye Protection: SPLASH-PROOF OR DUST-RESIS SAFETY GOGGLE
 Other Protective Equipment: WEAR APPROPRIATE PROTECTIVE(IMPervIOUS)CLOTH/EQPMT TO PREVENT REPEAT/PROLONG SKIN CNTCT W/MATL.EYEWASH FOUNTIAN IN AREA.
 Work Hygienic Practices: WASH HANDS AFTER HANDLING. LAUNDRER CONTAMIN CLOTHING PRIOR TO REUSE.
 Suppl. Safety & Health Data:

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 Transportation Data
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Transportation Action Code:
 Transportation Focal Point: D
 Trans Data Review Date: 94299
 DOT PSN Code: ZZZ

DOT Symbol: N/R
 DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
 DOT Class: N/R
 DOT ID Number: N/R
 DOT Pack Group: N/R
 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: N/R
 AFI Label: N/R
 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:

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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: 26OCT94

Label Date:
MFR Label Number:
Label Status: F
Common Name: POLYOXYETHYLENE (20) SORBITAN MONOOLEATE (TWEEN 80)
Chronic Hazard: NO
Signal Word: CAUTION!
Acute Health Hazard-None:
Acute Health Hazard-Slight: X
Acute Health Hazard-Moderate:
Acute Health Hazard-Severe:
Contact Hazard-None:
Contact Hazard-Slight: X
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:
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AIR.STOP BREATH GIVE ART RESP.TREAT SYMPT/SUPP.SKIN:REMOVE CONTAMIN CLOTH/
SHOES.WASH W/SOAP OR MILD DETERGENT & LOTS OF WATER FOR @ LEAST 15-20MINS.
EYE:WASH W/LOTS OF WATER OR NORMAL SALINE OPENING EYELIDS(15-20MINS).
INGEST:TREAT SYMPT/SUPP.VOMIT KEEP HEAD LOWER THAN HIPS.IN ALL CASES GET
MED ATTN IMMED.

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Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: FISHER SCIENTIFIC CO CHEMICAL DIV.
Label Street: 1 REAGENT LANE
Label P.O. Box:
Label City: FAIR LAWN
Label State: NJ
Label Zip Code: 07410
Label Country: US
Label Emergency Number: 201-796-7100
Year Procured: