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Product ID: ETHYL ALCOHOL, DENATURED (SEE SUPPL DATA) MSDS Date:07/01/1986 FSC:6810 NIIN:00-205-6786 Status Code:A Kit Part:Y MSDS Number: CLDJD === Responsible Party === Company Name: WARDS NATURAL SCIENCE ESTABISHMENT INC Address:5100 W HENRIETTA RD Box:92912 City:ROCHESTER State:NY ZIP:14692 Country:US Info Phone Num:716-359-2502/334-4222 (NIGHT) Emergency Phone Num:716-359-2502/800-424-9300(CHEMTREC) Resp. Party Other MSDS Num.: MSDS NO. EE 70 Preparer's Name: ALEXANDER A. PICCIRILLI Chemtrec Ind/Phone:(800)424-9300 CAGE:63759 === Contractor Identification === Company Name: WARDS NATURAL SCIENCE ESTABLISHMENT INC Address:5100 W HENRIETTA RD Box:92912 City:ROCHESTER State:NY ZIP:14692-9012 Country:US Phone:(716) 359-2502 Contract Num:MDA414-01-P-0022 С AGE:63759 Company Name: WARDS NATURAL SCIENCE ESTABLISHMENT INC Address:5100 W HENRIETTA RD Box:92912 City:ROCHESTER State:NY ZIP:14692-9012 Country:US Phone:(716) 359-2502 Contract Num:MDA414-01P-0092 CAGE:63759 Ingred Name: ETHYL ALCOHOL (FLAMMABLE) CAS:64-17-5 RTECS #:KQ6300000 = Wt:89.

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM (AIR)

1400000 = Wt:4.5 Other REC Limits:NONE RECOMMENDED ACGIH TLV:200 PPM (SKIN) EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:ETHYL ACETATE (FLAMMABLE: TOXIC BY INHALATION) CAS:141-78-6 RTECS #:AH5425000 = Wt:4.7 Other REC Limits:NONE RECOMMENDED ACGIH TLV:400 PPM EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:ALIPHATIC HYDROCARBONS (FLAMMABLE: IRRITANT) = Wt:1. Other REC Limits:NONE RECOMMENDED ACGIH TLV:500 PPM

Health Hazards Acute and Chronic:DANGER. POISON IF SWALLOWED.
Effects of Overexposure:INGESTION-CAUSES DIZZINESS, DROWSINESS, DECREASED REACTION, EUPHORIA, NAUSEA, VOMITING, STAGGERING GAIT, AND COMA. SKIN ABSORPTION-NO EVIDENCE OF ADVERSE EFFECTS FROM AVAILABLE INFORMATION. INHALATION -MAY CAUSE DIZZINESS, DROWSINESS, NAUSEA AND VOMITING. SKIN CONTACT-DEHYDRATION OF SKIN. EYE CONTACT-CAUSES MINOR IRRITATION.

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First Aid:INGESTION-DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR VERY DROWSY PERSON. IF CONSCIOUS, GIVE TWO GLASSES OF WATER TO DRINK, INDUCE VOMITING. REPEAT TILL FLUID IS CLEAR. CALL PHYSICIAN IMMEDIATE LY. SKIN-FLUSH WITH WATER. INHALATION-REMOVE TO FRESH AIR. EYES-IMMEDIATELY FLUSH EYES WITHY PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. NOTES TO PHYSICIAN: INGESTION OF LARGE QUAN TITIES OF THIS MATERIAL WILL RESULT IN METHYL ALCOHOL P OISONING.

Flash Point Method:TCC Flash Point:=8.3C, 47.F Lower Limits:3.3 ET.ALCOH Upper Limits:19 ET.ALCOHO Extinguishing Media:WATER SPRAY, CARBON DIOXIDE (CO2); DRY CHEMICAL (ABC); ALCOHOL-TYPE, OR UNIVERSAL-TYPE FOAM. Fire Fighting Procedures:WEAR A NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. Unusual Fire/Explosion Hazard:VAPORS FORMED FROM THIS PRODUCT MAY TRAVEL OR BE MOVE D BY AIR CURRENTS & IGNITED BY PILOT LIGHTS, OTHER FLAMES, SMOKING, SPARKS, HEATERS, ELECTRICAL EQUIPMENT, STATIC DISCHARGE, OR OTHER IGNITION SOUR CES AT LOCATION DISTANT FROM HANDLING POINT.

Spill Release Procedures:REMOVE ALL SOURCES OF IGNITION, PROVIDE ADEQUATE VENTILATION. FOR SMALL SPILLS, DILUTE WITH WATER AND FLUSH TO SEWER WITH COPIOUS AMOUNTS OF WATER OR ABSORB ON VERMICULTE, PAPER, EARTH OR OTHER ABSORB ENT, BURN IN AN APPROVED INCIDERATOR

OTHER ABSORB ENT. BURN IN AN APPROVED INCINERATOR OR OPEN PIT AWAY FROM BUILDINGS AND PEOPLE.

Handling and Storage Precautions:STORE IN COOL, DRY, WELL, VENTILATED AREA, AWAY FROM FIRE HAZARD. USE WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.
Other Precautions:READ LABEL ON CONTAINER BEFORE USING. WASH THOROUGHLY AFTER HANDLING. FOR LABORATORY USE ONLY. NOT FO
R DRUG, FOOD OR
HOUSEHOLD USE, KEEP OUT OF REACH OF CHILDREN.

HOUSEHOLD USE. KEEP OUT OF REACH OF CHILDREN.

======= Exposure Controls/Personal Protection ==========

Respiratory Protection:FOR NORMAL LABORATORY USE AT ROOM TEMPERATURES NONE SHOULD BE NEEDED. IF REQUIRED WORK IN FUME HOOD.
Ventilation:LOCAL EXHAUST: RECOMMENDED. MECHANICAL (GENERAL): RECOMMENDED. SPECIAL: NO. OTHER: NONE.
Protective Gloves:RUBBER.
Eye Protection:CHEMICAL SAFETY GLASSES.
Other Protective Equipment:SMOCK, APRON, EYE WASH STATION, GOGGLE S,

FIRE EXTINGUISHERS, PROPER GLOVES.

Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

REFILL KIT FOR LAB 9 #36-7127 #36-7107 CAUTION: FLAME MAY NOTBE VISIBLE IN DAYLIGHT. FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS: CAN REACT VIGOROUSLY WITH OXIDIZING MATERIAL S.

HCC:F2

NRC/State Lic Num:NOT RELEVANT Boili ng Pt:=78.9C, 174.F Melt/Freeze Pt:=-80.C, -112.F Vapor Pres:42 @ 68F Vapor Density:1.6 Spec Gravity:0.795 Evaporation Rate & amp; Reference:4.1 (N-BUTYL ACETATE=1) Solubility in Water:COMPLETE Appearance and Odor:CLEAR, COLORLESS, MOBILE LIQUID - MILD CHARACTERISTIC ODOR. Percent Volatiles by Volume:100 WT

Stability Indicator/Materials to Avoid:YES CONCENTRATED NITRIC ACID; STRONG OXIDIZING AGENTS. Stability Condition to A void:HEAT, FIRE, IGNITION SOURCES. Hazardous Decomposition Products:THERMAL DECOMPOSITION OR BURNING CAN PRODUCE CARBON MONOXIDE AND/OR CARBON DIOXIDE.

Toxicological Information:THRESHOLD LIMIT VALUE: ETHYL ALCOHOL TWA: 1000PPM; 1900MG/M3 (AIR). METHANOL TWA: SKIN 200PPM; 260MG/M3; ETHYL ACETATE TWA; 1400 MG/M3 (AIR).

Waste Disposal Methods: DISCHA

RGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT TO FEDERAL, STATE, OR LOCAL LAWS. DISPOSE OF IN AN APPROVED INCINERATOR OR CONTRACT WITH A LICENSED WASTE DISPOSAL SERVICE. DISCHARGE, TREATMENT, OR DI SPOSAL MAY BE SUBJECT TO LOCAL, STATE OR FEDERAL LAWS.

Transport Information:D.O.T.: FLAMMABLE LIQUID.

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