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Product ID: ISOPROPANOL, ANHYDROUS MSDS Date:03/08/1997 FSC:6810 NIIN:01-382-2904 Status Code:A MSDS Number: CKBYQ === Responsible Party === Company Name: UNION CARBIDE CORP LINDE DIV Address:39 OLD RIDGEBURY RD City:DANBURY State:CT ZIP:06817-0001 Country:US Info Phone Num:800-822-4357; 304-744-3487 Emergency Phone Num:800-UCC-HELP/304-744-3487 CAGE:36346 === Contractor Identification === Company Name:SDB CONSULTANTS LTD Address:401 WHITNEY AVE SUITE 120 Box:City:GRETNA State:LA ZIP:70056 Country:US Phone:504-366-9105 Contract Num:SP0450-00-M-D502 CAGE:0PGK2 Company Name: UNION CARBIDE CORP LINDE DIV Address:39 OLD RIDGEBURY RD Box:City:DANBURY State:CT ZIP:06817-0001 Country:US Phone:800-822-4357; 304-744-3487 CAGE:36346

======= Composition/Information on Ingredients ===

Ingred Name:ISOPROPYL ALCOHOL (SARA 313) CAS:67-63-0 RTECS #:NT8050000 = Wt:100. Other REC Limits:NONE RECOMMENDED OSHA PEL:400 PPM ACGIH TLV:400 PPM/500STEL;9596

LD50 LC50 Mixture:ORAL LD50(RAT): UNKNOWN.

Health Hazards Acute and Chronic:SWALLOWING-SLIGHTLY TOXIC. SKIN ABSORPTION-EXPOSURE TO SMALL QUANTITIES IS NOT EXPECTED TO CAUSE ADVERSE HEALTH EFFECTS. INHALATION-VAPOR CAUSES IRRITATION OF THE RES

PIRATORY TRACT. HIGH CONCENTRATION S OF VAPOR MAY CAUSE NERVOUS SYSTEM DEPRESSION. SKIN CONTACT-MAY CAUSE MINOR IRRITATION. PROLONGED OR REPEATED CONTACT MAY CAUSE DEFATTING OF THE SKIN. EYE CONTACT-CAUSES IRRITATION. CORNEAL INJURY MA Y OCCUR. REPEATED OR PROLONGED OVEREXPOSURE: PROLONGED OR REPEATED SKIN EXPOSURE MAY CAUSE DEFATTING OF THE SKIN. OTHER HEALTH HAZARDS: NONE CURRENTLY KNOWN.

Effects of Overexposure:SWALLOWING-MAY CAUSE DIZZINESS, FAINTNESS, DROWSINESS,

DECREASED AWARENESS & RESPONSIVENESS, LACK OF COORDINATION, ABDOMINAL DISCOMFORT, NAUSEA, VOMITING & DIARRHEA. INHALATION-COUGHING AND CHEST DISC OMFORT, WEAKNESS, DROWSINESS, AND LOSS OF CONSCIOUSNESS. SKIN-ITCHING AND POSSIBLE SLIGHT LOCAL REDNESS. EYE-STINGING AND DISCOMFORT OR PAIN.

Medical Cond Aggravated by Exposure:SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS.

First Aid:SWALLOWING-IF FULLY CON

SCIOUS, GIVE 2 GLASSES OF WATER,

INDUCE VOMITING. THIS SHOULD BE DONE ONLY BY MEDICAL/EXPERIENCED FIRST-AID PERSONNEL. OBTAIN MEDICAL ATTENTION. SKIN-REMOVE CONTAMINATED CLOTHI NG. WASH SKIN WITH SOAP & WATER, OBTAINMEDICAL ATTENTION. INHALATION-REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. IF BREATHING IS DIFFICULT, OXYGEN MAY BE GIVEN BY QUALIFIED PERSONNEL. OBTAIN MEDICAL ATTENTION. EYE-IMMEDIATELY FLUSH EYES WITH WATER FOR SEVERAL MIN.

REMOVE

CONTACT LENSES. OBTAIN MEDICAL ATTENTION.

Flash Point Method:TCC Flash Point:=12.C, 53.6F Lower Limits:2.0 Upper Limits:12.7 Extinguishing Media: APPLY ALCOHOL-TYPE OR ALL-PURPOSE-TYPE FOAM BY MANUFACTURER'S RECOMMENDED TECHNIQUES FOR LARGE FIRES. USE CARBON DIOXIDE OR DRY CHEMICAL MEDIA FOR SMALL FIRES. Fire Fighting Procedures: USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS & STRUCTURES. USE WATER SP RAY TO DISPERSE VAPORS: **RE-IGNITION IS POSSIBLE. USE SELF-CONTAINED BREATHING APPARATS &** PROTECTIVE CLOTHING. Unusual Fire/Explosion Hazard: VAPORS FORM FROM THIS PRODUCT & MAY TRAVEL OR BE MOVED BY AIR CURRENTS & IGNITED BY PILOT LIGHTS, OTHER FLAMES, SMOKING, SPARKS, HEATERS, ELECTRICAL EQUIPMENT. Spill Release Procedures: EXTINGUISH & DO NOT TURN ON ANY IGNITION SOURCES UNTIL THE AREA IS DETERMINED TO BE FREE FROM FIRE OR EXPLOSION HAZARD. WEAR SUITABLE PROTECTIVE EQUIPMENT. AVOID CONTACT WITH EYES. SMALL SPILLS CAN BE FLUSHED WITH LARGE AMOUNTS OF WATER: LARGER SPILLS SHOULD BE COLLECTED FOR DISPOSAL. Handling and Storage Precautions: WARNING! FLAMMABLE. KEEP AWAY FROM HEAT, SPARKS AND FLAMES. KEEP CONTAINER CLOSED. CAUSES EYE IRRITATION. MAY CAUSE DIZZINESS AND DROWSINESS. AVOID CONTACT WITH FYFS. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. Other Precautions: PROCESS HAZARD: SUDDEN RELEASE OF HOT ORGANIC CHEMICAL VAPORS OR MISTS FROM PROCESS EQUIPMENT OPERATING AT

ELEVATED TEMPERATURE & PRESSURE, OR SUDDEN INCREASES OF AIR INTO HOT EQUIPMENT UNDER A VACUUM, MAY RESULT IN IGNITIONS WITHOUT THE PRESENCE OF OBVIOUS IGNITION SOURCES.

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

Respiratory Protection: USE SELF-CONTAINED BREATHING

APPARATUS IN HIGH CONCENTRATIONS. Ventilation: GENERAL (MECHANICAL) ROOM VENTILATION IS EXPECTED TO BE SATISFACTORY WHERE THIS PRODUCT IS HANDLED IN CLOSED EQUIPMENT. Protective Gloves: PLASTIC, RUBBER. Eye Protection: MONOGOGGLES. Other Protective Equipment: EYE BATH, SAFETY SHOWERS. Work Hygienic Practices: WASH AFTER HANDLING. Supplemental Safety and Health NOTES TO PHYSICIAN: THERE IS NO SPECIFIC ANTIDOTE. TREATMENT OF OVEREXPOSURE SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITION OF THE PATIENT. HCC:F2 Boiling Pt:=82.C, 179.6F Melt/Freeze Pt:=-88.3C, -127.F Vapor Pres:33 @ 68F Vapor Density:2.1 Spec Gravity:0.787 Evaporation Rate & amp; Reference: 2.9 (N-BUTYL ACETATE=1) Solubility in Water:100% @20C Appearance and Odor: TRANSPARENT COLORLESS; SLIGHT ETHANOL/ACETONE-LIKE ODOR Percent Volatiles by Volume:100 == Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGNETS, HALOGENS, STRONG INORGANIC ACIDS, ALDEHYDES, HALOGEN COMPOUNDS. Stability Condition to Avoid:NONE KNOWN. Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE. CARBON MONOXIDE IS HIGHLY TOXIC IF INHALED; CARBON DIOXIDE IN SUFFICIENT CONCENTRATIONS CAN ACT AS AN ASPHYXIANT.

Toxicological Information: EXPOSURE LIMITS: ISOPROPANOL: 400

PPM TWA,

OSHA & ACGIH 500 PPM STEL, OSHA & ACGIH. TOXICITY: LARGER DOSES (>800 MG/KG/DAY) OF ISOPROPANL GIVE ORALLY TO PREGNANT RATS DURING THE CRITICAL PERIOD OF GES TATION PRODUCED SLIGHT DECREASES IN FETAL WEIGHT. THESE DOSES ALSO CAUSED EVIDENCE OF TOXICITY IN THE MOTHERS. NO EVIDENCE SUGGESTIVE OF CARCINOGENIC ACTIVITY WAS NOTED IN CHRONIC VAPOR INHALATION STU DIES WITH ISOPROPANOL IN RATS AND MICE.

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Waste Disposal Methods:INCINERATE IN A FURNANCE WHERE PERMITTED UNDER FEDERAL, STATE AND LOCAL REGULATIONS. AT VERY LOW CONCENTRATIONS IN WATER, THIS PRODUCT IS BIODEGRADABLE IN BIOLOGICAL WASTEWATER TREATMENT PLANT.

Transport Information:D.O.T. SHIPPING NAME: ISOPROPANOL (ISOPROPYL ALCOHOL) UN-1219.

Federal Regulatory Information:

THE INGREDIENTS OF THIS PRODUCT ARE ON

THE TSCA INVENTORY.

State Regulatory Information: PENNSYLVANIA RIGHT-TO-KNOW. MASSACHUSETTES RIGHT-TO-KNOW.

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