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UNION CARBIDE CORP LINDE DIV -- ISOPROPANOL ANHYDROUS -- 6810-00-543-7915

======== Product Identification ============

Product ID:ISOPROPANOL ANHYDROUS

MSDS Date:08/10/1998

FSC:6810

NIIN:00-543-7915

Status Code:A

MSDS Number: CLQPV

=== 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:800-822-4357

Resp. Party Other MSDS Num.:000000001194

Preparer's Name: NOT PROVIDED

CAGE:36346

=== Contractor Identification ===

Company Name: P AND D CREATIVE CO, INC

Address: 20140 SCHOLAR DR SUITE 211

Box:City:HAGERSTOWN

State:MD ZIP:21742

Country:US

Phone:301-797-3503

Contract Num:SP0450-02-M-M051

CAGE:1CVB1

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

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

Ingred Name: ISOPROPANOL

CAS:67-63-0

RTECS #:NT8050000

= Wt:100.

Other REC Limits:NOT PROVIDED OSHA PEL:980 MG/M3;400 PPM ACGIH TLV:983 MG/M3;400 PPM ACGIH STEL:1230 MG/M3;500 PPM

=========== Hazards Identification ===============

LD50 LC50 Mixture:NOT PROVIDED

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE:INHALATION: HIGH CONCENTRATIONS OF VAPOR

MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION, WITH LOSS OF CONSCIOUSNESS. VAPOR CAUSES IRRITATION OF RESPIRATORY TRACT. EYE CONTACT: CAUSES IRRITATION, CO RNEAL INJURY. SKIN CONTACT: MAY CAUSE MINOR IRRITATION. PROLONGED OR REPEATED CONTACT MAY CAUSE DEFATTING AND DRYING OF SKIN. SKIN ABSORPTION: EXPOSURE TO SMALL QUANTITIES IS NOT EXPECTED TO CAUSE AD VERSE HEALTH EFFECTS. PROLONGED EXPOSURE MAY RESULT IN ABSORPTION OF HARMFUL AMOUNTS, PARTICULARLY IN INFANTS. SWALL

OWING: SLIGHTLY TOXIC. MAY CAUSE

DIZZINESS. CHRONIC: PROLONGED OR REPEATED SKIN EXPO SURE CAN CAUSE DEFATTING.

Explanation of Carcinogenicity:NO EVIDENCE SUGGESTIVE OF CARCINOGENIC ACTIVITY WAS NOTED IN CHRONIC VAPOR INHALATION STUDIES WITH ISOPROPANOL IN RATS AND MICE.

Effects of Overexposure:INHALATION: CNS DEPRESSION, WEAKNESS, DROWSINESS, LOSS OF CONSCIOUSNESS, RESPIRATORY TRACT IRRITATION, COUGHING, CHEST DISCOMFORT. EYE CONTACT: IRRITATION, STINGING, DISCOMFORT,

PAIN, CORNEAL INJURY. SKIN CONTACT: IRRITATION, ITCHING, REDNESS, DEFATTING, DRYING. SKIN ABSORPTION: ADVERSE HEALTH EFFECTS, SAME SIGNS AS FOR INGESTION. INGESTION: DIZZINESS, FAINTNESS, DROWSINESS, DECREASED AWARENESS AN D RESPONSIVENESS, LACK OF COORDINATION, ABDOMINAL DISCOMFORT, NAUSEA, VOMITING, DIARRHEA.

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

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- ST AID: INHALATION: MOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. IF BREATHING DIFFICULT, GIVE OXYGEN BY QUALIFIED PERSONNEL. GET MEDICAL ATTENTION. EYES: FLUSH WITH WATER, CONTINUE WASHING FOR SEVERAL MINUTES. REMOVE CONTACT LENSES. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP AND WATER. IF IRRITATION PERSISTS OR IF CONTACT HAS BEEN PROLONGED, GET MEDI CAL ATTENTION. SWALLOWING: IF PATIENT IS FULLY CONSCIOUS, GIVE
- TWO GLASSES OF WATER. INDUCE VOMITING. THIS SHOULD BE DONE ONLY BY MEDICAL OR EXPERIENCED FIRST-AID PERSONNEL. GET MEDICAL ATTENTION.

Flash Point Method:TCC Flash Point:=11.7C, 53.F

Autoignition Temp: Autoignition Temp Text: N/AV

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 CH

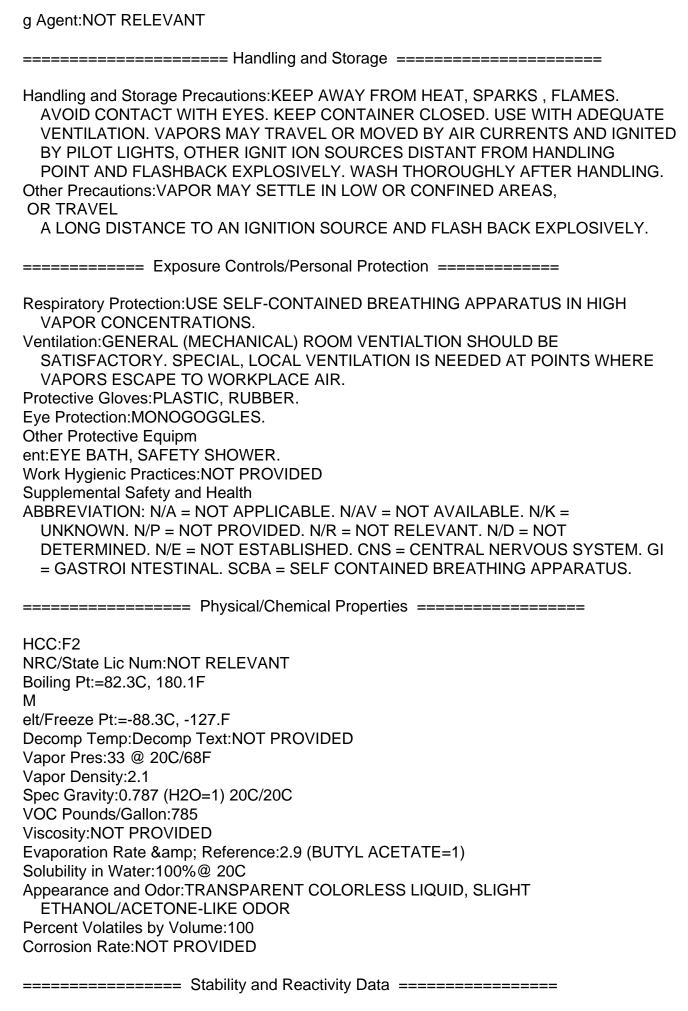
EMICAL MEDIA FOR SMALL FIRES.

- Fire Fighting Procedures:USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS AND STRUCTURES. USE WATER SPRAY TO DISPERSE VAPORS; RE-IGNITION IS POSSIBLE. USE SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.
- Unusual Fire/Explosion Hazard:PRODUCT VAPORS MAY TRAVEL OR BE MOVED BY AIR CURRENTS AND IGNITED BY PILOT LIGHTS, OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM PRODUCT HANDLING POINT. VAPORS FROM THIS MATERIAL MAY SETTLE IN LOW OR
- CONFINED AREAS OR TRAVEL A LONG
 DISTANCE TO AN IGNITION SOURCE AND FLASHBACK EXPLOSIVELY.

======== Accidental Release Measures ==========

Spill Release Procedures:EXTINGUISH IGNITION SOURCE UNTIL AREA IS DETERMINED TO BE FREE FROM FIRE OR EXPLOSION HAZARD. SMALL SPILLS CAN BE FLUSHED WITH LARGE AMOUNTS OF WATER, LARGER SPILLS SHOULD BE COLLECTED FOR DISPOSAL. P ERSONAL PRECAUTIONS: AVOID CONTACT WITH EYES. WEAR SUITABLE PROTECTIVE EQUIPMENT.

Neutralizin



Stability

Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS. HALOGENS. STRONG INORGANIC ACIDS. ALDEHYDES. HALOGEN COMPOUNDS.

Stability Condition to Avoid: NOT PROVIDED

Hazardous Decomposition Products: CARBON MONOXIDE AND/OR CARBON DIOXIDE. CARBON MONOXIDE IS HIGHLY TOXIC IF INHALED; CARBON DIOXIDE IN SUFFICIENT CONCENTRATIONS CAN ACT AS AN ASPHYXIANT.

======== Toxicological Information ===========

Toxicological Information: ACUTE TOXICITY: PERORAL: RAT, LD50: 6.48

(4.80-8.76) ML/KG. MAJOR SIGNS: UNSTEADY GAIT, PROSTRATION, HEAVY BREATHING. GROSS PATHOLOGY: LUNGS AND ABDOMINAL VISCERA DISCOLORED. PERCUTANEOUS: RABBIT LD50 24 HR OCCLUDED 8.0 (4.9-13.1 ML/KG. GROSS PATHOLOGY: LUNGS, LIVER, STOMACH DISCOLORED. INHALATION: STATIC GENERATION OF VAPOR EXPOSURE TIME 2 H, RABBIT, ROOM TEMPERATURE, KILL RATE:4/6, MAJOR SIGNS: LACRIMATION, LOSS OF COORDINATION, PROSTATION. GROSS PATHOLOGY: LUNGS DISCOLORED.

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ical Information	=======	=======	===

Ecological:ENVIRONMENTAL FATE: BOD (% OXYGEN CONSUMPTION): DAY5=28%; DAY 10=77%; DAY 20=78%. ECOTOXICITY TO MICRO-ORGANISMS:BACTERIAL/NA IC50 5000 MG/L. ECOTOXICITY TO AQUATIC INVEREBRATES: DAPHNIA LC50 48 H 755 0 MG/L. ECOTOXICITY TO FISH: FATHEAD MINNOW LC50 96 H 8300 MG/L. FURTHER INFORMATION: TI IOD (MEASURED) 2.30 MG/MG. TI IOD (CALCULATED) 2.40 MG/MG. OCTANOL/WATER PARTITION COEFFICIENT-MEASURED: 0.14.

Disposal Considerations =========

Waste Disposal Methods:INCINERATE IN FURNACE IF PERMITTED UNDER FEDERAL, STATE, LOCAL REGULATIONS. DISPOSE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, PROVINCIAL, LOCAL ENVIRONMENTAL REGULATIONS. EMPTY CONTAINERS SHOULD B E RECYCLED OR DISPOSED OF THROUGH APPROVED WASTE MANAGEMENT FACILITY. PRODUCT IS BIODEGRADABLE IN BI OLOGICAL WASTEWATER TREATMENT PLANT.

======== MSDS Transport Information ===========

Transport Information:U.S. D.O.T.: NON-BULK: PROPER SHIPPING NAME: ISOPROPANOL; UN 1219: HAZARD CLASS: 3; PKG: I I. BULK: PROPER SHIPPING NAME: ISOPROPANOL; UN1219; HAZARD CLASS: 3; PKG: I I. ADDITIONAL TRANSPORTATION SYST EM INFORMATION CAN BE OBTAINED THROUGH YOUR UCC SALES OR CUSTOMER SERVICE REPRESENTATIVE.

======== Regulatory Information ==============

SARA Title III Information:SECTIONS 302 AND 304: NONE OF THE COMPONENTS OF THIS PRODUCT ARE LIST

ED AS EXTREMELY HAZARDOUS SUBSTANCES IN 40
CFR PART 355 AND ARE PRESENT AT LEVELS WHICH COULD REQUIRE
REPORTING AND EMERGENCY PLANN ING. SECTION 313: NONE OF THE
COMPONENTSOF THIS PRODUCT ARE LISTED AS TOXIC CHEMICALS IN 40 CFR
372.65 AND ARE PRESENT AT LEVELS WHICH COULD REQUIRE REPORTING AND
CUSTOMER NOTIFICATION UNDER SECTION 3 13 AND 40 CFR PART 372.
SECTION 311 AND 312: DELAYED HAZARD: YES; FIRE HAZARD: YES;
IMMEDIATE HEALTH HAZARD: YES; REACTIVE HAZARD; NO; SUDD

EN RELEASE
OF PRESSURE HAZARD: NO.

Federal Regulatory Information:CERCLA:SECTION 103: NO COMPONENTS OF THIS PRODUCT ARE LISTED AS HAZARDOUS SUBSTANCES IN 40 CFR 302.4 (UNLISTED HAZARDOUS SUBSTANCES NOT IDENTIFIED) AND PRESENT AT LEVELS WHICH COULD REQUIRE REPORTING. TOXIC SUBSTANCES CONTROL ACT (TSCA):ALL COMPONENTS OF THIS PRODUCT ARE ON TSCA INVENTORY OR ARE EXEMPT FROM TSCA INVENTORY REQUIREMENTS.

State Regulatory Information: PENNSYLVANIA: THIS PRODUCT IS SUBJECT TO

THE WORKER AND COMMUNITY RIGHT-TO-KNOW ACT. THE FOLLOWING COMPONENTS OF THIS PRODUCT ARE AT LEVELS WHICH COULD REQUIRE IDENTIFICATION IN MSDS: ISOPROPANOL, CAS # 67-63-0,