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UNION CARBIDE CORP LINDE DIV -- CARBON DIOXIDE -- 4210-01-078-3669

Product ID:CARBON DIOXIDE MSDS Date:05/01/1991 FSC:4210 NIIN:01-078-3669 MSDS Number: BRRKS === 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:203-744-3487 Emergency Phone Num:203-744-348 7 CAGE:36346 === Contractor Identification === **Company Name: HILLER SYSTEMS INC** Address:833 PRINCIPAL LN Box:City:CHESAPEAKE State:VA ZIP:23320 Country:US Phone:757-549-9123 CAGE:1DA54 Company Name: KIDDE FENWAL INC Address:400 MAIN ST Box:City:ASHLAND State:MA ZIP:01721-2150 Country:US Phone:508-881-2000 CAGE:0KDP7 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

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

Ingred Name:CARBON DIOXIDE CAS:124-38-9 RTECS #:FF6400000 Fraction by Wt: 100% Other REC Limits:NONE RECOMMENDED OSHA PEL:5000 PPM ACGIH TLV:5000PPM/30000STEL;95

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: INGEST: UNLIKELY ROUTE OF EXPO. PROD GAS @NORMAL TEMP/PRESSURES.SKIN ABSORP:NO EVIDENCE OF ADVERSE EFFECTS FRM AVAILABLE INFO.INHAL: ASPHYXIANT. MODERATE CONCEN MAY CAUSE HEAD, DROW, DIZZ, STINGING OF NOSE/T HROAT, EXCITATION, RAPID BREATHING & HEART RATE, EXCESS SALIVATION, VOMIT, UNCONSC. SKIN/EYE: NO HARMFUL EFFECT EXPECTED (SUPP) Explanation of Carcinogenicity:NONE OF THE INGREDIENTS IN THIS PRODUCT IS LISTED BY NTP, IARC OR OSHA AS A CARCINOGEN. Effects of Overexposure: DAMAGE TO RETINAL GANGLLON CELLS & CNS MAY OCCUR. FROSTBITE. HEADACHE, DROWSI NESS, DIZZ, STINGING OF NOSE/THROAT, ESCITATION, RAPID BREATHING & HEART RATE, EXCESS SALIVATION, VOMITING, UNCONSCIOUSNESS. Medical Cond Aggravated by Exposure: KNOWLEDGE OF AVAILABLE TOXICOLOGY

INFO & OF PHYSICAL & CHEM PROPERTIES OF MATL SUGGEST THAT OVEREXPO IS UNLIKELY TO AGGRAVATE EXISTING MED CONDITIONS.

First Aid:SKIN:EXPO TO COLD VAP/SOLID IMMED WARM FROSTBITE AREA W/WARM WATER(NOT TO EXCEED 105F).M

ASSIVE EXPO REMOVE CLOTH WHILE SHOWERING

W/WARM WATER.OBTAIN MED ATTN.INHAL:REMOVE TO FRESH AIR.NOT BREATH GIVE ART RESP.QUALIFIED PERSONNEL MAY GIVE OXY IF BREATH IS DIFFICULT.OBTAIN MED ATTN.EYE:EXPO TO COLD VAP/SOLID IMMED FLUSH WELL W/WATER FOR @LEAST 15MINS.OBTAIN MED ATTN PREFERABLY OPHTHALMOLOGIST (SUPP)

Extinguishing Media:CARBON DIOXIDE CANNOT CATCH FIRE. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures: EVACUATE ALL PERSONNEL FROM DANGER AREA. IMMED DELUGE CNTNRS W/WATER SPRAY FROM MAXIMUM DISTANCE UNTIL COOL THEN MOVE CNTNRS AWAY FROM FIRE AREA IF W/O RISK.

Unusual Fire/Explosion Hazard:GAS CANNOT CATCH FIRE.CNTNR MAY RUPTURE DUE TO FIRE HEAT.NO PART OF CNTNR SHOULD BE SUBJ TO TREMP >52C.MOST CNTNRS ARE PROVIDED W/PRESS RELIEF DEVICE (SUPPLEME)

Spill Release Procedures:EVACUATE

PERSONNEL.USE SCBA WHERE NEEDED.SHUT

OFF W/O RISK.VENTI & MOVE CNTNR TO WELL VENTIL AREA.TEST ESPECIALLY CONFINED AREAS FOR SUFFI OXY CONTENT PRIO TO PREMITTING RE-ENTRY OF PERSONNEL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions: USE PIPE/EQPMT ADEQ DESIGNED TO W/STAND PRESS.CAN CAUSE RAPID SUFFOCATION DUE TO OXY DEFICIENCY.STORE/USE W/ADEQ VENTIL.CLS VAL WHEN NOT IN US E/EMPTY.

Other Precautions: GAS HEAVIER THAN AIR ACCUMULATE NEAR FLOOR DISPLACING AIR.VENTI AREA BEF ENTRY.VERIFY SUFF OXY CONCEN.WHEN 2 OR MORE GASES MIXED HAZ PROP MAY COMBINE.CONSULT INDUST HYGIENIST TO EVALUATE MIXTURE.READ/ UNDERSTAND LABLES/INSTURCTIONS W/MATL.

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

Respiratory Protection:SELECT IAW OSHA29CFR1910.134/ANSI Z88.2.CONCEN 10X APPLICABLE EXPO LIMIT ANY NIOSH/MSHA APPROVED SUPPLIED AIR RESP.UP 50

X NIOSH/MSHA APPROVED RESP W/FULL FACEPC OR SCBA.HIGHER CONCEN USE ONLY SCBA OPE RATED IN PRESSURE-DEMAND MODE. Ventilation:LOCAL EXHAUST:PREFERRED. MECHANICAL(GENERAL):ACCEPTABLE. Protective Gloves:INSULATED NEOPRENE GLOVES.

Eye Protection: SELECT IAW OSHA 29CFR1910.133.

Other Protective Equipment: METATARSAL SHOES FOR CYL HANDLING. SELCE IAW OSHA 29CFR1910.132 & 1910.133.

Work Hygienic Practices: PAMPHLET P-1 FRM COMP GAS ASSOC INC, 1235 JEF DAVID HYWAY, ARLINGTON, VA22202. NEVER WORK ON P

RESSURIZED SYSTEM. Supplemental Safety and Health SUBLIM PT 760MM HG:-78.5C. FIRE/EXPLO HAZ:DESIGNED TO VENT WHEN EXPO HI TEMP. HEALTH HAZ: FROM GAS. COLD VAP/SOLID CARBON DIOXIDE MAY CAUSE FROSTBITE.CHRONIC:NO EVIDENCE FROM AVAILABLE INFO. 1STAID:IMME D.NOTE TO DR:NO SPECIFIC ANTIDOTE.TREATMENT OF OVEREXPO SHOULD BE DIRECTED @CNTRL OF SYMPTOMS/CLINICAL VICTIM CONDITONS. HCC:G3 Boiling Pt:B.P. Text:SEE SUPPLEM V apor Pres:830 @21C Vapor Density:1.522 @21C Evaporation Rate & amp; Reference: HIGH, (N-BUTYL ACETATE=1) Solubility in Water:SLIGHT Appearance and Odor: COLORLESS GAS AT NORMAL TEMPERATURE & PRESSURE; ODORLESS. Percent Volatiles by Volume:100 Stability Indicator/Materials to Avoid:YES ALKALI METALS, ALKALINE EARTH METALS, METAL ACETYLIDES, CHROMIUM, TITANIUM >550C,URANIUM >750C. Stability Condition to Avoid:NONE SPECIFIED BY M ANUFACTURER. Hazardous Decomposition Products: IN THE PRESENCE OF ELECTRICAL DISCHARGE, CARBON DIOXIDE IS DECOMPOSED TO FORM CARBON MONOXIDE & OXYGEN.

Waste Disposal Methods:SLOWLY RELEASE INTO ATM OUTDOORS.DISCARD ANY PROD/RESIDUE/DISPOSABLE CNTNR OR LINER IN ENVIRONMENTALLY ACCEPTABLE MANNER IN FULL COMPLIANCE W/LOCAL, STATE AND FEDERAL REGULATIONS.

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