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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:203-744-3487

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

====== Co

mposition/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
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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 A BSORP: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, DROWSINE SS, 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.
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First Aid:SKIN:EXPO TO COLD VAP/SOLID IMMED WARM FROSTBITE AREA W/WARM WATER(NOT TO EXCEED 105F).MAS SIVE 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)

========== Fire Fighting Measures ===========

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

IRE.

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)

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

Spill Release Procedures: EVACUATE PE

RSONNEL.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 ===============

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 USE/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 50X

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 PRE

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. ======== Physical/Chemical Properties =========== HCC:G3 Boiling Pt:B.P. Text:SEE SUPPLEM Vap or Pres:830 @21C Vapor Density:1.522 @21C Evaporation Rate & 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 and Reactivity Data =========== 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 MAN UFACTURER. Hazardous Decomposition Products: IN THE PRESENCE OF ELECTRICAL DISCHARGE, CARBON DIOXIDE IS DECOMPOSED TO FORM CARBON MONOXIDE & OXYGEN. ======= Disposal Considerations ============

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

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