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## CARDOX CORP DIV OF LIQUID AIR CORP -- 0000 -- 4210-00-270-4512

Product ID:0000 MSDS Date:06/15/1989 FSC:4210 NIIN:00-270-4512 MSDS Number: BMWRT === Responsible Party === Company Name: CARDOX CORP DIV OF LIQUID AIR CORP Address:6500 VILLAGE PKY SUITE 205 City:DUBLIN State:CA ZIP:94568-3015 Country:US Info Phone Num:415-977-6500 Emergency Phone Num:415-977-6500 CA GE:1FX45 === Contractor Identification === Company Name: CARDOX CORP DIV OF LIQUID AIR CORP Address:6500 VILLAGE PKY SUITE 205 Box:City:DUBLIN State:CA ZIP:94568-3015 Country:US Phone:415-977-6500 CAGE:1FX45 Company Name: FIGGIE INTERNATIONAL INC. Address:4420 SHERWIN ROAD Box:City:WILLOUGHBY State:OH ZIP:44094-7938 Country:US Phone:216-946-9000 CAGE:34597

Ingred Name:CARBON DIOXIDE CAS:124-38-9 RTECS #:FF6400000 Fraction by Wt

LD50 LC50 Mixture:NONE GIVEN Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:UNKNOWN IARC:UNKNOWN OSHA:NO Health Hazards Acute and Chronic: INCREASED EXPOSURE TO C02 CAN RESULT IN SUFFOCATION Effects of Overexposure: INCREASED BREATHING RATE, HEADACHE, DIZZINESS, SHORTNESS OF BREATH, MUSCLAR WE AKNESS, DROWINESS AND RINGING IN THE EARS. Medical Cond Aggravated by Exposure:NONE GIVEN First Aid:REMOVE TO FRESH AIR, GIVE MOUTH TO MOUTH OR OTHER SUPPLEMENTAL, OXYGEN. SEEK MEDICAL ASSISTANCE IMMEDIATELY Lower Limits:NONE Upper Limits:NONE Extinguishing Media: USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS TO AVOID RUPTURE. **Fire Fighting Proce** dures: THIS MATERIAL IS NONCOMBUSTIBLE. Unusual Fire/Explosion Hazard:CO2 FIRE EXTINGUISHERS CAN PRODUCE HIGHLY INCENDARY SPARKS OF 5-15 MJ AT 10-20KV BY ELECTRONIC DISCHARGE. Spill Release Procedures: PROVIDE VENTILATION, CLEANUP PERSONNEL NEED SPECIAL TRAINING AND PROTECTION AGAINST CONTACT WITH COLD MATERIALS OR EXCESSIVE INHALATION OF GASEOUS C02.

Handling and Storage Precautions:SEE CGA PAMPHLET G-5 CARBON DIOXIDE, Other Precautions:NONE GIVEN

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

Respiratory Protection:SELF CONTAINED BREATHING APPERATUS WITH POSITIVE PRESSURE MODE. Ventilation:LOCAL Protective Gloves:LOOSE FITTING INSULATED Eye Protection:SAFETY GOGGLES Other Protective Equipment:SAFTEY TOE SHOES. Work Hygienic Practices:PRUDENT Supplemental Safety and Health \*NOTE: MSDS DATED 010CT85 RECEIVED FRO M FIGGIE IN JULY93. SINCE HMIS RECORD IS NEWER, ONLY CHANGE WAS FIGGIE ADDED AS VENDOR.\*

HCC:G3 Boiling Pt:B.P. Text:109F,43C Vapor Pres:70F@844.7 Vapor Density:70F@.1144 Spec Gravity:63.65LB.FT Evaporation Rate & amp; Reference:NOT GIVEN Solubility in Water:.8704 Appearance and Odor:COLORLESS, ODORLESS

Stability Indicator/Materials to Avoid:YES REACTIVE

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MATERIALS: ALKAI METALS, MAGNESIUM, ALUMINUM ETC. DRY ICE CAN FORM SHOCK SENSITIVE MIXTURES.

Stability Condition to Avoid:THIS MATERIAL DECOMPOSES TO CO AND 0 WHEN HEATED ABOVE 1700CTHIS WEAKLY ACIDIC MATERIAL WILL REACT WITH ALKALINEE MATERA

Hazardous Decomposition Products:CARBON MONOXIDE WHEN HEATED ABOVE 3092F

Waste Disposal Methods: ALLOW TO BLEED OFF IN WELL VENTILATED AREA.

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