

CARDOX CORP DIV OF LIQUID AIR CORP -- 0000 -- 4210-00-473-0590

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

Product ID:0000

MSDS Date:06/15/1989

FSC:4210

NIIN:00-473-0590

MSDS Number: BMWSY

=== 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:800-231-1366

Emergency Phone Num:800-424-9300

CAG

E: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

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

Ingred Name:CARBON DIOXIDE

CAS:124-38-9

RTECS #:FF6400000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED

OSHA PEL:5000 PPM

ACGIH TLV:5000PPM/30000STEL;93

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

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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
WEAKNESS,DROWINESS AND RINGING IN THE EARS.
Medical Cond Aggravated by Exposure:NONE GIVEN

===== First Aid Measures =====
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First Aid:REMOVE TO FRESH AIR,GIVE MOUTH TO MOUTH OR OTHER
SUPPLEMENTAL,OXYGEN. SEEK MEDICAL ASSISTANCE IMMEDIATELY

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

Lower Limits:NONE
Upper Limits:NONE
Extinguishing Media:USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS TO
AVOID RUPTURE.
Fire Fighting Procedures:THIS MATERIAL IS NONCOMBUSTIBLE.
Unusual Fire/Explosion Hazard:CO2 FIRE EXTINGUISHERS CAN PRODUCE HIGHLY
INCENDARY SPARKS OF 5-15 MJ AT 10-20K
V BY ELECTRONIC DISCHARGE.

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

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 =====

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

===== Exposure Controls/Personal Protec

tion =====

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

NONE GIVEN

===== Physical/Chemical Properties =====

HCC:G3

Boiling Pt:B.P. Text:109F,43C

Vapor Pres:70F@844.7

Vapor Density:70F@.1144

Spec Gravity:63.65LB.FT

Ev

aporation Rate & Reference:NOT GIVEN

Solubility in Water:.8704

Appearance and Odor:COLORLESS, ODORLESS

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

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

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

Hazardous Decomposit

ion Products:CARBON MONOXIDE WHEN HEATED ABOVE 3092F

===== Disposal Considerations =====

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

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