

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

CAGE: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
=====

=====

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 CO2 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 =====
=====

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-
20KV 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 CO2.

===== Handling and Storage =====

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

===== Exposure Controls/Personal Pro

tection =====

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

Evaporation 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 MATERA

Hazardous Decompo

sition Products:CARBON MONOXIDE WHEN HEATED ABOVE 3092F

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

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

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability

for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.