

## **CARBON DIOXIDE**

### **MSDS Number**

BHDDD

### **National Stock Number**

6830-00-247-0619

### **Product Name**

CARBON DIOXIDE

### **Manufacturer**

CARDOX CORP

### **Product Identification**

Product ID: CARBON DIOXIDE

MSDS Date: 10/01/1985

FSC: 6830

NIIN: 00-247-0619

MSDS Number: BHDDD

### **Responsible Party**

CARDOX CORPORATION

2121 N. CALIFORNIA BLVD., SUITE 350

WALNUT CREEK, CA 94596

US

Emergency Phone: 800-231-1366

Info Phone: 415-977-6500

Cage: K0835

### **Contractor**

CARDOX CORPORATION

WALNUT CREEK, CA 94596

US

415-977-6500

Cage: K0835

### **Ingredients**

CARBON DIOXIDE

CAS: 124-38-9

RTECS: FF6400000

OSHA PEL5000 PPM

ACGIH TLV: 5000PPM/30000STEL;93

### **Hazards**

Routes of Entry: Inhalation: YES Skin: YES Ingestion: YES

Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO

Health Hazards Acute and Chronic: CARBON DIOXIDE IS THE MOST POWERFUL CEREBRAL VASODILATOR KNOWN. INHALING LARGE CONCENTRATIONS CAUSES

RAPID CIRCULATORY INSUFFICIENCY LEADING TO COMA &

DEATH. CHRONIC, HARMFUL EFFECTS ARE NOT KNOWN FROM REPEATED

INHALATION OF LOW 3-5 MOLAR % CONCENTRATIONS.

Effects of Overexposure: HEADACHE, DIZZINESS, SHORTNESS OF BREATH, MUSCULAR

WEAKNESS, DROWSINESS & RINGING IN THE EARS. HIGH CONCENTRATIONS

PRODUCE A FAINT ACID TASTE & CAN CAUSE PARALYSIS OF THE BREATHING

CONTROL CENTERS OF THE NERVOUS SYSTEM. HIGHER CONCENTRATIONS

CAUSERAPID CIRCULATORY INSUFFICIENCY LEADING TO COMA & DEATH.

## First Aid

First Aid:PROMPT MEDICAL ATTN.RESCUE PERSONEEL SHOULD BE EQUIPPED W/SELF-CONTAINED BREATHING APPARATUS.INHALATION:CONSCIOUS/UNCONSCIOUS ASSIST TO FRESH AIR.IF NECESSARY GIVE ASSISTED RESUSCITATION & SUP OXY.ASS URE THAT VOMITED MATERIAL DOES NOT OBSTRUCT THE AIRWAY BY USE OF POSITIONAL DRAINAGE.MEDICAL ATTN SHOULD BE SOUGHT IMMEDIATELY.

## Fire Fighting

Flash Point:NA  
Lower Limits:NA  
Upper Limits:NA  
Extinguishing Media:NONFLAMMABLE, INERT GAS  
Fire Fighting Procedures:NA  
Unusual Fire/Explosion Hazard:NA

## Accidental Release

Spill Release Procedures:EVACUATE ALL PERSONNEL.USE APPROPRIATE PROTECTIVE EQUIP.IF LEAK IS IN USER'S EQUIP,BE CERTAIN TO PURGE PIPING W/AN INERT GAS PRIOR TO ATTEMPTING REPAIRS.IF LEAK IS IN CNT OR CNT VAVLE,CONTACT THE CLOS EST CARDOX CORPORATION LOCATION OR CALLEMERG NO.

## Handling

Handling and Storage Precautions:USE/STORE IN WELL-VENTILATED AREA.DO NOT DRAG,SLIDE OR ROLL CYLS.USE SUITABLE HAND TRUCK.SEGREGATE FULL/EMPTY CYLS.USE FIRST IN FIRST OUT INVENTORY.  
Other Precautions:COMPRESSED GAS CYLS SHOULD NOT BE REFILLED EXCEPT BY QUALIFIED PRODUCERS OF COMPRESSED GASES.SHIPMENT OF A COMPRESSED GAS CYL WHICH HAS NOT BEEN FILLED BY THE OWNER OR W/HIS WRITTEN CONSENT IS A VIOLA TION OF FEDERAL LAW (49 CFR).

## Exposure Controls

Respiratory Protection:POSITIVE PRESSURE AIR LINE W/MASK OR SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERG USE.  
Ventilation:LOCAL EXHAUST  
Protective Gloves:ANY MATERIAL  
Eye Protection:SAFETY GOGGLES/GLASSES  
Other Protective Equipment:SAFETY SHOES  
Supplemental Safety and Health  
NK

## Chemical Properties

Boiling Pt:B.P. Text:-109.3F \*  
Vapor Pres:@70F 21.1C  
Spec Gravity:@70F 1.53  
Solubility in Water:@68F 20C  
Appearance and Odor:COLORLESS,ODORLESS GAS. \*SUBLIMATION PT:-109.3F

## Stability

Stability Indicator/Materials to Avoid:YES  
EXPLO CAN OCCUR WHEN CO2 CONTACTS MIXTURES OF SODIUM PEROXIDE W/ALUMINUM OR MAGNESIUM.REACTIVE METALS(SUCH AS ALKALI \*\*  
Stability Condition to Avoid:CO2 IS STABLE UNDER ORD CONDITIONS OF USE/STORAGE.IT DECOMP TO CO&O2 WHEN HEATED ABOVE 1700C.  
Hazardous Decomposition Products:CARBON MONOXIDE  
Conditions to Avoid Polymerization:IT DOES CAUSE VIOLENT POLYMERIZATION OF ACRYLALDEHYDE OR ETHYLENEMINE.

## Disposal

Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF RESIDUAL OR UNUSED QTYS.RETURN IN THE SHIPPING CNT PROPERLY LABELED,W/ANY VALVE OUTLET PLUGS OR CAPS SECURED & VALVE PROTECTION CAP IN PLACE TO CARDOX CORP FOR PROPER DISP OSAL.FOR EMERG DISPOSAL,CONTACT CLOSESTCAR

CORP.

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