

CARBON DIOXIDE REFRIGERATED LIQUID

MSDS Number

BHDDF

National Stock Number

6830-00-247-0619

Product Name

CARBON DIOXIDE REFRIGERATED LIQUID

Manufacturer

CARDOX CORP

Product Identification

Product ID: CARBON DIOXIDE REFRIGERATED LIQUID

MSDS Date: 10/01/1985

FSC: 6830

NIIN: 00-247-0619

MSDS Number: BHDDF

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

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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: NERVOUS SYSTEM CONTROL OF RESPIRATION IS DEPENDENT ON THE CO2 LEVEL BREATHED IN AIR. BY REDUCING THE OXYGEN LEVEL IN AIR, CO2 CAN CAUSE SUFFOCATION. SYMPTOMS OF OVEREXPOSURE INCLUDE HEADACHE, DIZZINESS, SHORTNESS OF BREATH, MUSCULAR

WEAKNESS,DROWSINESS & RINGING IN THE EARS.

First Aid

First Aid:PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO CARBON DIOXIDE.RESCUE PERSONNEL SHOULD BE EQUIPPED W/SELF-CONTAINED BREATHING APPARATUS.CONSCIOUS PERSONS SHOULD BE ASSISTED TO AN UNCONTAMINATED AREA & INHALE FRESH AIR.QUICK REMOVAL FROM THE CONTAMINATED AREA IS MOST IMPORTANT.UNCONSCIOUS PERSONS SHOULD BE MOVED TO AN UNCONTAMINATED AREA,GIVEN MOUTH-TO-MOUTH RESUSCITATION.

Fire Fighting

Flash Point:NA
Lower Limits:NA
Upper Limits:NA
Extinguishing Media:NONFLAMMABLE, INERT GAS.
Fire Fighting Procedures:USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS TO PREVENT RUPTURE.THIS MATERIAL IS NONCOMBUSTIBLE.IT CAN BE USED AS EXTINGUISHING AGENT FOR ITS SMOTHERING EFFECT
Unusual Fire/Explosion Hazard:IT IS NOT EFFECTIVE FOR USE ON FIRES INVOLVING CHEMICALS THAT HAVE THEIR OWN OXYGEN SUPPLY; OR ON FIRES INVOLVING REACTIVE METALS, OR THEIR HYDRIDES.

Accidental Release

Spill Release Procedures:EVACUATE AREA OF MAJOR SPILL OR RELEASE OF CO₂.NOTIFY SAFETY PERSONNEL.PROVIDE VENTILATION.CLEAN-UP PERSONNEL NEED SPECIAL TRAINING & PROTECTION AGAINST CONTACT W/VERY COLD MATERIALS OR EXCESSIVE INHALATION OF GASEOUS CO₂.

Handling

Handling and Storage Precautions:DO NOT STORE CYLS IN SUB-SURFACE OR CLOSED AREAS. PROVIDE GENERAL & LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.
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/WRITTEN CONSENT IS A VIOLATION OF FEDERAL LAW (49CFR).

Exposure Controls

Respiratory Protection:POSITIVE PRESSURE AIR LINE W/MASK OR SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE.
Ventilation:YES TO PREVENT ACCUMULATION ABOVE THE TWA.
Protective Gloves:LOOSE FITTING, INSULATED.
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
Solubility in Water:@68F 20C
Appearance and Odor:COLORLESS, ODORLESS GAS.

Stability

Stability Indicator/Materials to Avoid:YES
AN EXPLOSION CAN OCCUR WHEN CO₂ CONTACTS MIXTURES OF SODIUM PEROXIDE WITH ALUMINUM OR MAGNESIUM.
Stability Condition to Avoid:CO₂ IS STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE. IT DOESN'T POLYMERIZE.DECOMPOSES ABOVE 1700C.REACTS W/ALKALI
Hazardous Decomposition Products:CARBON MONOXIDE.

Disposal

Waste Disposal Methods:ALLOW GAS TO BLEED OFF AT A MODERATE RATE TO SUBLIME TO A WELL VENTILATED AREA.

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