

CARBON DIOXIDE

MSDS Number

BHDCW

National Stock Number

6830-00-245-0199

Product Name

CARBON DIOXIDE

Manufacturer

SUNOX INCORPORATED

Product Identification

Product ID: CARBON DIOXIDE

MSDS Date: 11/25/1985

FSC: 6830

NIIN: 00-245-0199

MSDS Number: BHDCW

Responsible Party

SUNOX INCORPORATED

4236 STATESVILLE ROAD

CHARLOTTE , NC 28233

US

Emergency Phone: 803-324-4180

Info Phone: 704-596-6262

Cage: SUNOX

Contractor

SUNOX INCORPORATED

33871

CHARLOTTE, NC 28233

US

704-596-6262

Cage: SUNOX

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

Health Hazards Acute and Chronic: CARBON DIOXIDE IS THE MOST POWERFUL CEREBRAL VASODILATOR KNOWN. INHALING LARGE CONCENTRATIONS CAUSES RAPID CIRCULATION INSUFFICIENCY LEADING TO COMA & DEATH. CHRONIC HARMFUL EFFECTS ARE NOT KNOWN FROM REPEATED INHALATION OF LOW 3-5 MOLAR % CONCENTRATIONS.

Effects of Overexposure: INHALATION: 3-5 MOLAR % INCREASED RESPIRATION & HEADACHE. 8-15 MOLAR % HEADACHE, NAUSEA & VOMITING WHICH MAY LEAD TO UNCONSCIOUSNESS. HIGH CONCENTRATIONS CAUSE RAPID CIR INSUFFICIENCY

LEADING TO COMA & DEATH. FROSTBITE EFFECTS ARE A CHANGE IN THE COLOR OF THE SKIN TO GRAY OR WHITE POSSIBLY FOLLOWED BY BLISTERING.

First Aid

First Aid: PROMPT MEDICAL ATTENTION IS MANDATORY. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS. INHALATION: CONSCIOUS/UNCONSCIOUS ASSIST TO FRESH AIR. QUICK REMOVAL IS MOST IMPORTANT. IF NECESSARY GIVE ASSISTED RESUSCITATION & SUPPLEMENTAL OXYGEN. ASSURE THAT VOMITED MATERIAL DOES NOT OBSTRUCT THE AIRWAY BY USE OF POSTURAL DRAINAGE.

Fire Fighting

Extinguishing Media: NONFLAMMABLE, INERT GAS

Accidental Release

Spill Release Procedures: EVACUATE ALL PERSONNEL FROM AREA. USE APPROPRIATE PROTECTIVE EQUIPMENT. IF LEAK IS IN USER'S EQUIPMENT, BE CERTAIN TO PURGE PIPING WITH AN INERT GAS PRIOR TO ATTEMPTING REPAIRS. IF LEAK IS IN CYLINDER OR CYLINDER VALVE, CONTACT CLOSEST SUPPLIER OR CALL EMERGENCY NUMBER.

Handling

Handling and Storage Precautions: USE/STORE IN WELL-VENTILATED AREA. DO NOT HEAT CYLINDER BY ANY MEANS TO INCREASE DISCHARGE RATE OF PRODUCT FROM CYLINDER. DRY CO₂ CAN BE HANDLED WITH MOST COMMON STRUCTURAL MATERIAL. Other Precautions: COMPRESSED GAS CYLINDERS SHOULD NOT BE REFILLED EXCEPT BY QUALIFIED PRODUCERS OF COMPRESSED GASES. SHIPMENT OF A COMPRESSED GAS CYLINDER WHICH HAS NOT BEEN FILLED BY THE OWNER OR WITH HIS WRITTEN CONSENT IS A VIOLATION OF FEDERAL LAW (49 CFR).

Exposure Controls

Respiratory Protection: POSITIVE PRESSURE AIR LINE WITH MASK OR SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE.
Ventilation: LOCAL EXHAUST TO PREVENT ACCUMULATION ABOVE THE TWA.
Protective Gloves: ANY MATERIAL
Eye Protection: SAFETY GOGGLES/GLASSES
Other Protective Equipment: SAFETY SHOES
Supplemental Safety and Health
NONE

Chemical Properties

Boiling Pt: B.P. Text: -109.3°F *
Vapor Pres: 856 PSIA *
Spec Gravity: 1.65 @ 70°F
Solubility in Water: VERY SOLUBLE
Appearance and Odor: COLORLESS, ODORLESS GAS

Stability

Stability Indicator/Materials to Avoid: YES
NONE
Hazardous Decomposition Products: CARBON MONOXIDE

Disposal

Waste Disposal Methods: DO NOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED QUANTITIES. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED & VALVE PROTECTION CAP IN PLACE TO YOUR SUPPLIER. FOR EMERGENCY DISPOSAL ASSISTANCE CONTACT CLOSEST SUPPLIER LOCATION OR CALL.

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