

## **CARBON DIOXIDE, DRY ICE (SOLID ONLY)**

### **MSDS Number**

BHDTB

### **National Stock Number**

6830-00-682-6841

### **Product Name**

CARBON DIOXIDE, DRY ICE (SOLID ONLY)

### **Manufacturer**

AIR PRODUCTS AND CHEMICALS INC

### **Product Identification**

Product ID:CARBON DIOXIDE, DRY ICE (SOLID ONLY)

MSDS Date:07/10/1986

FSC:6830

NIIN:00-682-6841

MSDS Number: BHDTB

### **Responsible Party**

AIR PRODUCTS AND CHEMICALS, INC.

2043 S 35TH ST

TACOMA , WA 98411-0393

US

Cage: 00742

### **Contractor**

OXYGEN SALES AND SERVICE INC

11393

TACOMA, WA 98411-0393

US

800-345-3148/ 800-752-1597

Cage: 5H199

### **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 DOES NOT SUPPORT LIFE AND MAY PRODUCE IMMEDIATELY HAZARDOUS ATMOSPHERES. IF CONCENTRATION EXCEEDS 10% UNCONSCIOUSNESS CAN OCCUR WITHOUT PREVENTING SELF RESCUE. AT A HIGHER CONC ENTRATION IT AFFECTS THE RESPIRATORYRATE.

Effects of Overexposure:AT A CONCENTRATION IN EXCESS OF 1.5% MAY PRODUCE HYPERVENTILATION,HEADACHES, VISUAL DISTURBANCES, TREMOR, LOSS OF CONSCIOUSNESS AND DEATH.

### **First Aid**

First Aid: PERSONS SUFFERING FROM THE TOXIC EFFECT OF CARBON DIOXIDE SHOULD BE MOVED TO AREAS WITH NORMAL ATMOSPHERE. ASSISTED RESPIRATION & SUPPLEMENTAL OXYGEN SHOULD BE GIVEN IF THE VICTIM IS NOT BREATHING. FROZEN TISSUES SHOULD BE FLOODED OR SOAKED W/ TEPID WATER (DO NOT USE HOT WATER). CRYOGENIC BURNS WHICH RESULT IN BLISTERING OR DEEPER TISSUE FREEZING SHOULD BE SEEN PROMPTLY BY A PHYSICIAN.

## Fire Fighting

Flash Point: NA  
Lower Limits: NA  
Upper Limits: NA  
Extinguishing Media: CARBON DIOXIDE IS AN EXTINGUISHING AGENT FOR CLASS B/C FIRES  
Fire Fighting Procedures: NA  
Unusual Fire/Explosion Hazard: NA

## Accidental Release

Spill Release Procedures: VENTILATE INDOOR AREAS WELL TO AVOID HAZARDOUS CARBON DIOXIDE CONCENTRATIONS. AVOID CONTACT WITH COLD VAPORS OR DRY ICE. CARBON DIOXIDE IS A HVY GAS & WILL REMAIN IN LOW SPOTS W/O ASSISTED VENTILATION.

## Handling

Handling and Storage Precautions: PREVENT CONTACT OF LIQUID TO EXPOSED SKIN. USE ONLY IN WELL VENT AREAS. KEEP CYLINDERS AWAY FROM SOURCES OF HEAT. STORE IN NON ACTIVE AREA.  
Other Precautions: NEVER USE DIRECT FLAME TO HEAT A COMPRESSED GAS CYLINDER. VALVE CAPS SHOULD REMAIN ON CYLINDERS NOT CONNECTED FOR USE. SEGREGATE FULL & EMPTY CYLINDERS. AVOID EXPOSURE TO AREAS WHERE SALT OR OTHER CORROSIVE CHEMICALS ARE PRESENT.

## Exposure Controls

Respiratory Protection: SELF CONTAINED BREATHING APPARATUS IN OXYGEN DEFICIENT ATMOSPHERE OR WHERE CARBONDIOXIDE EXCEEDS 1.5%. CAUTION RESPIRATORS WILL NOT FUNCTION. USE MAY RESULT IN ASPHYXIATION.  
Ventilation: NATURAL OR MECHANICAL. VENT SHOULD BE SITUATED TO AVOID HIGHER THAN NORMAL CONCENTRATION OF CARB DIOXIDE IN WORK AREAS.  
Protective Gloves: LOOSE FITTING GLOVES/IMPERMEABLE/LEATHER  
Eye Protection: SAFETY GLASSES  
Other Protective Equipment: NONE  
Supplemental Safety and Health  
NK

## Chemical Properties

HCC: G3  
Boiling Pt: B.P. Text: -109.3F  
Vapor Pres: 831 PSIA  
Vapor Density: 0.115  
Spec Gravity: -110F  
Appearance and Odor: CARBON DIOXIDE IS COLORLESS/ODORLESS AS GAS OR LIQUID.

## Stability

Stability Indicator/Materials to Avoid: YES  
IF MOISTURE IS PRESENT, MATERIALS MUST RESIST CARBONIC ACID.  
Stability Condition to Avoid: NONE  
Hazardous Decomposition Products: NONE

## Disposal

Waste Disposal Methods: DO NOT ATTEMPT TO DISPOSE OF RESIDUAL CARBON DIOXIDE IN COMPRESSED GAS CYLINDERS. ALWAYS DISPOSE OF CARBON DIOXIDE IN A WELL VENT LOCATION AWAY FROM WORK AREAS. RETURN CYLINDERS TO AIR PRODUCTS WITH RESIDUAL PRESS VLV TIGHTLY CLSD & CAP IN PLACE.

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