

# Material Safety Data Sheet

## Provided by:

DPC Industries, Inc.      DX Distributors, Inc.  
DPC Enterprises          DX Systems Company  
DXI Industries, Inc.      DX Terminals

PO Box 24600  
Houston, Tx 77229-4600  
281-457-4888  
888-647-7717  
www.dxgroup.com

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name**      CARBON DIOXIDE

### Synonyms

**Chemical Name**      CARBON DIOXIDE

**Emergency phone:**    281-457-4888

**Date of Issue:**        10/01/00

**Chemtrec:**            800-424-9300

**Revised Date:**        N/A

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	PERCENT	CAS NO.
CARBON DIOXIDE	> 99.5%	124-38-9

## SECTION 3 - HAZARDS IDENTIFICATION

### Potential Health Effects

**ACGIH - TLV:**        5000 ppm

**Eye Contact**        DIRECT CONTACT WITH LIQUEFIED GAS CAN RESULT IN EYE BURNS.

**Skin Contact**        DIRECT CONTACT WITH LIQUEFIED GAS CAN RESULT IN FROSTBITE.

**Ingestion**            UNLIKELY.

**Inhalation**            MAY CAUSE ASPHYXIATION IN HIGH CONCENTRATIONS.

**Carcinogenicity:**    *NTP* NO    *IARC* NO    *OSHA* NO

## SECTION 4 - FIRST AID PROCEDURES

**Eye Contact:**        IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

**Skin Contact:**        IMMEDIATELY REMOVE CONTAMINATED CLOTHING OR SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF AVAILABLE OR FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. GET MEDICAL ATTENTION.

**Inhalation:**         REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

**Ingestion:**         DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK AND GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

## SECTION 5 - FIRE FIGHTING MEASURES

**Flash Point**            NOT APPLICABLE

**Extinguishing Media**    USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

**Special Firefighting  
Procedures/Precuations**

WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. STAY UPWIND AND KEEP OUT OF LOW AREAS. DUST EXPLOSIONS MAY OCCUR WHEN FINELY DIVIDED PARTICLES ARE MIXED WITH AIR IN THE PRESENCE OF AN IGNITION SOURCE.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**For Spill:** EVACUATE ALL PERSONNEL FROM THE AREA. VENTILATE AREA OF LEAK WITH SUPPLEMENTAL FANS. USE SCBA TO ENTER LEAK AREA AND REMOVE CYLINDER TO REMOTE AREA.

**SECTION 7 - HANDLING AND STORAGE**

Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area, away from heat and incompatible materials. Protect containers from physical damage.

FOLLOW NORMAL COMPRESSED GAS STORAGE RECOMMENDATIONS. DO NOT SUBJECT TO HIGH TEMPERATURES. AVOID LOW AREAS AND CORROSIVE CHEMICALS.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Respiratory Protection** USE A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS WHERE DUST OR MIST MAY BE GENERATED.
- Ventilation** LOCAL AND MECHANICAL RECOMMENDED.
- Protective Gloves** CHEMICAL IMPERVIOUS GLOVES.
- Eye/Face Protection** CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD.
- Other Protection** CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC.
- Work Practices** USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling Point (°F):</b> 109.3	<b>Vapor Pressure (mmHg):</b> 856 psia (@ 70 F)
<b>Freezing Point (°F):</b> -69.83	<b>Vapor Density (Air=1):</b> 1.65
<b>Solubility (H2O):</b> .8704	<b>Specific Gravity (H2O=1):</b> 1.98
<b>pH</b> 3 - 5	<b>Evaporation Rate:</b> NOT DETERMINED
<b>Appearance/Odor:</b> COLORLESS GAS WITH SLIGHTLY PUNGENT ODOR	

**SECTION 10 - STABILITY AND REACTIVITY**

- Chemical Stability:** YES
- Incompatible Materials** SODIUM PEROXIDE WITH ALUMINUM OR MAGNESIUM; REACTIVE METALS, HYDRIDES.
- Decomposition Products** CARBON MOXOXIDE AT HIGH TEMPERATURES.
- Hazardous Polymerization:** WILL NOT OCCUR.

**SECTION 11 - TOXICITY INFORMATION**

CARBON DIOXIDE IS A POWERFUL CEREBRAL VASODILATOR. INHALING LARGE CONCENTRATIONS CAUSES RAPID CIRCULATORY INSUFFICIENCY LEADING TO COMA AND DEATH. FROSTBITE EFFECTS ARE A CHANGE IN THE COLOR OF THE SKIN TO GRAY OR WHITE POSSIBLY FOLLOWED BY BLISTERING.

**SECTION 12 - ECOLOGICAL INFORMATION**

NO DATA AVAILABLE.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

DISPOSE OF WASTE MATERIALS ACCORDING TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.

**SECTION 14 - TRANSPORT INFORMATION**

**USA DOT Shipping Name:** CARBON DIOXIDE

**Hazard Class:** 2.2

**UN/NA Number:** UN1013

**Packing Group:**

**Subsidiary Hazard**

**Marine Pollutant:** NO

**SECTION 15 - REGULATORY INFORMATION**

**CERCLA RQ (lbs):** NOT APPLICABLE

**SARA Title III Section 312:**

**Acute**     **Chronic**     **Flammable**     **Sudden Release of Pressure**     **Reactive**

**SARA Title III Section 313:** No

**SARA Extremely Hazardous Substance:** No

**HMIS HAZARD RATING**

**Health:** 1                      **Fire:** 0                      **Reactivity:** 0

**0 - Least    1 - Slight    2 - Moderate    3 - High    4 - Extreme**

**SECTION 16 - OTHER INFORMATION**

**EPA Pesticide Registration Number:** NOT APPLICABLE

**NSF Maximum Use Level for Potable Water (Standard 60):** NOT APPLICABLE

**TSCA (Toxic Substance Control Act), 40 CFR 710:**

Sources of the raw materials used in this mixture assure that all chemical ingredients present are in compliance with Section 8(b) Chemical Substance Inventory, or are otherwise in compliance with TSCA.

**DISCLAIMER**

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