



[Close this window](#)

[MSDS](#)

Common Name: CARBON DIOXIDE

Manufacturer: CO2 AIR

MSDS Revision Date: 6/1/2013

MSDS Format: ANSI-OSHA

Grainger Item Number(s): 35WT14, 35WT15, 35WT16, 35WT17, 3GRW9, 3GRX1, 3GRX2, 3GRX3

Manufacturer Model Number(s):

MSDS Table of Contents

Click the desired link below to jump directly to that section in the MSDS.

[SECTION I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION](#)
[SECTION II. HAZARD IDENTIFICATION AND EMERGENCY OVERVIEW](#)
[SECTION III. COMPOSITION/INFORMATION ON INGREDIENTS](#)
[SECTION IV. FIRST AID MEASURES](#)
[SECTION V. FIREFIGHTING MEASURES](#)
[SECTION VI. ACCIDENTAL RELEASE MEASURES](#)
[SECTION VII. HANDLING AND STORAGE](#)
[SECTION VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION](#)
[SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES](#)
[SECTION X. STABILITY AND REACTIVITY](#)
[SECTION XI. TOXICOLOGICAL INFORMATION](#)
[SECTION XII. ECOLOGICAL INFORMATION](#)
[SECTION XIII. CONSIDERATIONS FOR DISPOSAL](#)
[SECTION XIV. TRANSPORTATION INFORMATION](#)
[SECTION XV. REGULATORY INFORMATION](#)
[SECTION XVI. OTHER INFORMATION](#)

MATERIAL SAFETY DATA SHEET

IDENTITY - CARBON DIOXIDE (CO2)

SECTION I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

[▲ top](#)

PRODUCT NAME: CARBON DIOXIDE

SYNONYM: CO2, CARBONIC ANHYDRIDE

DISTRIBUTOR: BUCKEYE FIRE EQUIPMENT COMPANY

MANUFACTURER:

CO2 AIR INC.

1445 VENTURA DRIVE

CUMMING, GA 30028

TELEPHONE: 800.3919868

EMERGENCY:

CHEMTREC: 1.800.424.9300

REVISION DATE: 6/13

SECTION II. HAZARD IDENTIFICATION AND EMERGENCY OVERVIEW**EMERGENCY OVERVIEW:**

COLORLESS GAS. IN LOW CONCENTRATIONS CARBON DIOXIDE IS ODORLESS, AT HIGH CONCENTRATIONS IT HAS A SHARP ACIDIC ODOR.

ADVERSE HEALTH EFFECTS AND SYMPTOMS:

AT CONCENTRATIONS BETWEEN 2% AND 10% CARBON DIOXIDE CAN CAUSE NAUSEA, DIZZINESS, HEADACHE, MENTAL CONFUSION, INCREASED BLOOD PRESSURE AND RESPIRATORY RATE. AT CONCENTRATIONS OF 10% OR MORE, SUFFOCATION AND DEATH CAN OCCUR WITHIN MINUTES. CONTACT WITH THE COLD GAS CAN CAUSE FREEZING OF EXPOSED TISSUE.

EXPOSURE GUIDELINES:

	OSHA PEL	ACGIH TLV
CARBON DIOXIDE	5000 PPM	5000 PPM

HAZARD SYMBOLS:**HMIS RATINGS:**

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

PERSONAL PROTECTIVE EQUIPMENT:

APPROPRIATE GLOVES AND EYE PROTECTION. (SEE SECTION 8)

WHMIS (CANADIAN WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION):
CLASS A: COMPRESSED GAS

SECTION III. COMPOSITION/INFORMATION ON INGREDIENTS

	WEIGHT %*	CAS #
CARBON DIOXIDE	>99.8	124-38-9
IMPURITIES	<0.2	N/A

* % IS ROUNDED TO THE NEAREST APPROPRIATE NUMBER. VALUES ARE NOT TO BE
CONSIDERED PRODUCT SPECIFICATIONS

SECTION IV. FIRST AID MEASURES**NOTE:**

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE A VICTIM OF EXPOSURE TO THIS PRODUCT WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. AT A MINIMUM, SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN.

REMOVE VICTIM TO FRESH AIR AS QUICKLY AS POSSIBLE. TRAINED PERSONNEL SHOULD ADMINISTER SUPPLEMENTAL OXYGEN AND /OR CARDIO-PULMONARY RESUSCITATION IF NECESSARY. ONLY TRAINED PERSONNEL SHOULD ADMINISTER SUPPLEMENTAL OXYGEN.

IN CASE OF FROSTBITE, PLACE THE FROSTBITTEN PART IN WARM WATER. DO NOT USE HOT WATER. IF WARM WATER IS NOT AVAILABLE OR IS IMPRACTICAL TO USE, WRAP THE AFFECTED PART GENTLY IN A BLANKET. IF FINGERS OR HANDS ARE FROSTBITTEN, PLACE THE AFFECTED PART IN THE ARMPIT. HAVE VICTIM GENTLY EXERCISE THE AFFECTED PART WHILE BEING WARMED. SEEK IMMEDIATE MEDICAL ATTENTION. TAKE A COPY OF THIS MSDS TO THE ATTENDING PHYSICIAN OR HEALTH PROFESSIONAL.

SECTION V. FIREFIGHTING MEASURES**EXTINGUISHING MEDIA:**

N/A. THIS PRODUCT IS AN EXTINGUISHING AGENT. IT IS NONFLAMMABLE AND NONCOMBUSTIBLE.

SPECIAL FIREFIGHTING PROCEDURES:

STRUCTURAL FIREFIGHTERS MUST WEAR SELF-CONTAINED BREATHING APPARATUS AND

FULL PROTECTIVE EQUIPMENT. MOVE FIRE EXPOSED CYLINDERS IF IT CAN BE DONE WITHOUT RISK TO FIREFIGHTERS.

OTHERWISE COOL CONTAINERS WITH HOSE STREAM AND PROTECT PERSONNEL. WITHDRAW IMMEDIATELY IN CASE OF RISING SOUNDS FROM VENTING SAFETY DEVICE OR ANY DISCOLORATION OF TANKS DUE TO FIRE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
CONTAINERS OF CARBON DIOXIDE, WHEN INVOLVED IN FIRE, MAY RUPTURE OR BURST FROM THE HEAT OF THE FIRE.

SENSITIVITY TO MECHANICAL IMPACT OR STATIC DISCHARGE: NONE

SECTION VI. ACCIDENTAL RELEASE MEASURES

 top

IN CASE OF ACCIDENTAL RELEASE, USE THE APPROPRIATE RESPIRATORY AND PERSONAL PROTECTION. EVACUATE THE AREA AND ALLOW THE GAS, WHICH IS HEAVIER THAN AIR, TO DISSIPATE. MONITOR THE SURROUNDING AREA FOR CARBON DIOXIDE AND OXYGEN LEVELS. THE LEVELS OF CARBON DIOXIDE MUST BE BELOW THOSE LISTED IN SECTION II AND THE ATMOSPHERE MUST HAVE AT LEAST 19.5% OXYGEN BEFORE PERSONNEL ARE ALLOWED BACK INTO THE AREA.

SECTION VII. HANDLING AND STORAGE

 top

AVOID EYE, RESPIRATORY, AND SKIN EXPOSURE. USE THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT WHEN HANDLING. BE AWARE OF ANY SIGNS OF DIZZINESS, FATIGUE, OR ANY EXPOSURE SYMPTOM DESCRIBED IN SECTION II. PRODUCT SHOULD BE STORED IN DRY, WELL-VENTILATED AREAS AWAY FROM SOURCES OF HEAT. STORE IN ITS ORIGINAL CONTAINER OR EXTINGUISHER. CONTAINERS ARE UNDER PRESSURE AND PRESENT SIGNIFICANT SAFETY HAZARDS. STORE AWAY FROM HEAVILY TRAFFICKED AREAS AND PATHS FOR INGRESS/EGRESS. PROTECT CONTAINERS FROM POSSIBLE DAMAGE AND FALLING. SECURE CYLINDERS TO PREVENT ACCIDENTAL KNOCK OVER.

SECTION VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

 top

USE ADEQUATE VENTILATION TO PREVENT UNACCEPTABLE CONCENTRATION LEVELS NOTED IN SECTION II.

RESPIRATORY PROTECTION: USE SELF-CONTAINED BREATHING APPARATUS

EYE PROTECTION:
WEAR CHEMICAL GOGGLES OR FULL-FACE AIR-PURIFYING RESPIRATOR.

SKIN PROTECTION:
USE LOW-TEMPERATURE PROTECTIVE GLOVES AND APPROPRIATE BODY PROTECTION.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

 top

APPEARANCE AND ODOR:

CARBON DIOXIDE IS A COLORLESS GAS THAT IS ODORLESS AT LOW CONCENTRATIONS. AT HIGH CONCENTRATIONS IT WILL HAVE A SHARP ACIDIC ODOR.

GAS DENSITY @ 21 DEG. C AND 1 ATM: 0.1144 LB/FT3

SOLUBILITY: 0.90%

FLASH POINT: N/A

FLAMMABILITY: N/A

BOILING POINT @ 1 ATM: -78.5 DEG. C

SECTION X. STABILITY AND REACTIVITY

 top

STABILITY: NORMALLY STABLE

CANADA	DSL
EUROPE	EINECS/ELINCS
AUSTRALIA	AICS
JAPAN	MITI
SOUTH KOREA	KECL

U.S. FEDERAL REGULATORY INFORMATION:

THIS PRODUCT IS NOT SUBJECT TO THE SARA REPORTING REQUIREMENTS OR HAS SARA THRESHOLD PLANNING QUANTITIES OR CERCLA REPORTABLE QUANTITIES.

STATE REGULATORY INFORMATION:

CHEMICALS IN THIS PRODUCT ARE COVERED UNDER THE SPECIFIC STATE REGULATIONS NOTED:

ALASKA:

DESIGNATED TOXIC AND HAZARDOUS SUBSTANCES: CARBON DIOXIDE

CALIFORNIA:

PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS: CARBON DIOXIDE

FLORIDA:

SUBSTANCE LIST: CARBON DIOXIDE

ILLINOIS:

TOXIC SUBSTANCE LIST: CARBON DIOXIDE

KANSAS:

SECTION 302/303 LIST: NO

MASSACHUSETTS:

SUBSTANCE LIST: CARBON DIOXIDE

MINNESOTA:

LIST OF HAZARDOUS SUBSTANCES: CARBON DIOXIDE

MISSOURI:

EMPLOYER INFORMATION/TOXIC SUBSTANCE LIST: CARBON DIOXIDE

NEW JERSEY:

RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST: CARBON DIOXIDE

NORTH DAKOTA:

LIST OF HAZARDOUS CHEMICALS, REPORTABLE QUANTITIES: NO

PENNSYLVANIA:

HAZARDOUS SUBSTANCE LIST: CARBON DIOXIDE

RHODE ISLAND:

HAZARDOUS SUBSTANCE LIST: CARBON DIOXIDE

TEXAS:

HAZARDOUS SUBSTANCE LIST: NO

WEST VIRGINIA:

HAZARDOUS SUBSTANCE LIST: CARBON DIOXIDE

WISCONSIN:

TOXIC AND HAZARDOUS SUBSTANCES: CARBON DIOXIDE

CALIFORNIA PROPOSITION 65:

CARBON DIOXIDE IS NOT LISTED ON THE CALIFORNIA PROPOSITION 65 LIST

SECTION XVI. OTHER INFORMATION

 top

THIS MSDS CONFORMS TO THE REQUIREMENTS UNDER U.S. AND CANADIAN REGULATIONS OR STANDARDS. IT CONFORMS TO THE PROPOSED 2003 ANSI Z400.1 FORMAT.

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH AS TYPICAL VALUES AND NOT AS PRODUCT SPECIFICATIONS. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREBY MADE.

