

CARBON DIOXIDE

MSDS Number

BHDSW

National Stock Number

6830-00-682-6841

Product Name

CARBON DIOXIDE

Manufacturer

AMERIGAS INC CARBON DIOXIDE DIV

Product Identification

Product ID: CARBON DIOXIDE

MSDS Date: 09/08/1988

FSC: 6830

NIIN: 00-682-6841

MSDS Number: BHDSW

Responsible Party

AMERIGAS, INC., CARBON DIOXIDE DIVISION

17304 PRESTON ROAD, SUITE 1000

DALLAS , TX 75252-5613

US

Emergency Phone: 214-380-5600

Info Phone: 214-380-5600

Cage: LO801

Contractor

SQUIBB-OWEN SALES INC

11125

PITTSBURGH, PA 15237-3162

US

214-380-5600

Cage: 1DE98

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: PHYSIOLOGICAL EFFECT OF CARBON DIOXIDE IS TO STIMULATE THE RESPIRATORY CENTER. IT IS ABLE TO CAUSE DILATION & CONSTRICTION OF BLOOD VESSELS & VITAL CONSTITUENT OF THE ACID BASE MECHANISM THAT CONTROLS THE PH OF THE BLOOD. CARBON DIOXIDE ACTS AS A STIMULANT & A DEPRESSANT ON THE CENTRAL NERVOUS SYSTEM. INCREASES HEART RATE.

Effects of Overexposure: SKIN OR MOUTH CONTACT W/ SOLID CO₂ OR W/ GAS OR LIQ CO₂ DISCHARGED FROM A CONTAINER MAY RESULT IN FROSTBITE, CAUSING

SKIN LESIONS OR MORE SERIOUS INJURY FROM DEEP FREEZING OF THE TISSUES.EYE CONTACT W/SO LID CO2 CONSIDERED AS A CORNEAL BURN.FROSTBITE OF THE EYE STRUCTURE MAY ALSO OCCUR.

First Aid

First Aid:MOVE VICTIM TO FRESH AIR. IF NOT BREATHING,GIVE ARTIFICIAL RESPIRATION,PREFERABLY MOUTH-TO-MOUTH.CALL A PHYSICIAN.TREAT FOR FROSTBITE.FROSTBITE SYMTOMS ARE:FLUSHED SKIN THAT TURNS WHITE OR GRAYISH YE LLOW.BLISTERS MAY APPEAR.DO NOT RUB THEAREA.QUICKLY WARM BY IMMERSING IN TEPID WATER (102F-105F).CONSULT PHYSICIAN.

Fire Fighting

Fire Fighting Procedures:CARBON DIOXIDE IS NONFLAMMABLE & AS SUCH DOES NOT CREATE A FIRE HAZARD.HOWEVER, CYLINDERS THAT ARE EXPOSED TO FIRE MAY RUPTURE W/VIOLENT FORCE.

Accidental Release

Spill Release Procedures:VENTILATE THE AREA.CARBON DIOXIDE CAN ACT AS A SIMPLE ASPHYXIANT BY DISPLACING AIR.PERSONNEL ENTERING THE AREA SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.

Handling

Handling and Storage Precautions:CYLS SHOULD BE STORED & USED IN DRY,WELL VENTILATED AREAS AWAY FROM SOURCES OF HEAT.
Other Precautions:THE CONTAINER SPECIFICATIONS OF REGULATORY AUTHORITIES REQUIRE, AMONG OTHER THINGS,THAT THE MATERIALS USED FOR LIQ CO2 CONTAINERS & PIPING MUST MEET CERTAIN CHEMICAL & PHYSICAL REQUIREMENTS.

Exposure Controls

Respiratory Protection:APPROVED RESPIRATORY EQUIPMENT MUST BE WORN W/AIRBORNE CONCENTRATIONS EXCEED SAFE LIMITS.
Protective Gloves:RECOMMENDED FOR HANDLING CYLS OR DRY ICE
Eye Protection:SAFETY GLASSES SHOULD BE WORN
Supplemental Safety and Health
NK

Chemical Properties

Vapor Pres:@21.1C 70F
Solubility in Water:@1ATM 25C
Appearance and Odor:AT ROOM TEMPERATURE CARBON DIOXIDE IS A COLORLESS, ODORLESS GAS.

Stability

Stability Indicator/Materials to Avoid:YES
SODIUM PEROXIDE W/ALUMINUM OR MAGNESIUM.REACTIVE METALS ALKALI METALS,MAGNESIUM,ALUMINUM,TITANIUM,OR ZIRCONIUM.
Conditions to Avoid Polymerization:IT DOES CAUSE VIOLENT POLYMERIZATION OF ACRYLALDEHYDE OR ETHLENEMINE.

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