

CARBON DIOXIDE

MSDS Number

BBBJV

National Stock Number

6830-00B030038

Product Name

CARBON DIOXIDE

Manufacturer

COCA COLA DR PEPPER BOTTLING CO OF ALBUQUERQUE

Product Identification

Product ID: CARBON DIOXIDE

MSDS Date: 01/01/1987

FSC: 6830

NIIN: 00B030038

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Responsible Party

COCA-COLA, DR. PEPPER BOTTLING CO. OF ALBUQUERQUE

205 MARQUETTE

ALBUQUERQUE, NM 87125

US

Cage: 55551

Contractor

COCA-COLA, DR. PEPPER BOTTLING CO. OF ALBUQUERQUE

ALBUQUERQUE, NM 87125

US

Cage: 55551

Ingredients

CARBON DIOXIDE

CAS: 124-38-9

RTECS: FF6400000

OSHA PEL 5000 PPM

ACGIH TLV: 5000PPM/30000STEL;93

Hazards

Routes of Entry: Inhalation: YES Skin: YES Ingestion: YES

Health Hazards Acute and Chronic: THE GREATEST PHYSIOLOGICAL EFFECT OF CARBON DIOXIDE IS THE RESPIRATORY CENTER. IT ALSO ACTS AS A STIMULANT AND DEPRESSANT ON THE CENTRAL NERVOUS SYSTEM. INCREASES IN HEART RATE AND BLOOD PRESSURE HAVE BEEN NOTED AT 7.6%, AND DYSPNEA, HEADACHE, DIZZINESS, AND SWEATING OCCUR IF EXPOSURE AT THAT LEVEL IS PROLONGED.

Effects of Overexposure: GASEOUS CARBON DIOXIDE IS AN ASPHYXIANT. CONCENTRATIONS OF 10% OR MORE CAN PRODUCE UNCONSCIOUSNESS OR DEATH. SKIN OR MOUTH CONTACT W/ SOLID CARBON DIOXIDE OR W/ GAS OR LIQUID CARBON DIOXIDE DISCHARGED FROM A CONTAINER MAY RESULT IN FROSTBITE. EYE CONTACT W/ SOLID CO₂ OR COMPRESSED CO₂ SHOULD BE CONSIDERED AS A CORNEAL BURN.

First Aid

First Aid: INHALATION: MOVE VICTIM TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH TO MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. CONTACT: TREAT FOR FROSTBITE. FROSTBITE SYMPTOMS ARE: FLUSHED SKIN THAT TURNS WHITE OR GRAYISH YELLOW. BLISTERS MAY APPEAR. DO NOT RUB THE AREA. QUICKLY WARM BY IMMERSING IN TEPID WATER (102F-105F). CONSULT A PHYSICIAN.

Fire Fighting

Extinguishing Media: EXTINGUISH SURROUNDING FIRE AND KEEP CYLINDERS COOL USING A WATER SPRAY APPLIED FROM THE MAXIMUM POSSIBLE DISTANCE.

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

Unusual Fire/Explosion Hazard: AN EXPLOSION CAN OCCUR WHEN CARBON DIOXIDE CONTACTS MIXTURE OF SODIUM PEROXIDE WITH ALUMINUM OR MAGNESIUM.

Accidental Release

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

Handling

Handling and Storage Precautions: CYLINDERS SHOULD BE STORED AND USED IN DRY, WELL VENTILATED AREAS AWAY FROM SOURCES OF HEAT.

Other Precautions: THE CONTAINER SPECIFICATIONS OF REGULATORY AUTHORITIES REQUIRE, THAT THE MATERIALS USED FOR LIQUEFIED CARBON DIOXIDE CONTAINERS AND PIPING MUST MEET CERTAIN CHEMICAL AND PHYSICAL REQUIREMENTS. CONTAINERS MUST PASS HYDROSTATIC PRESSURE TESTS

Exposure Controls

Respiratory Protection: APPROVED RESPIRATORY EQUIPMENT MUST BE WORN WHEN AIRBORNE CONCENTRATIONS EXCEED SAFE LIMITS.

Protective Gloves: RECOMMENDED

Eye Protection: SAFETY GLASSES

Other Protective Equipment: NO SPECIAL EQUIPMENT IS REQUIRED. WEAR GLOVES FOR HANDLING CYLINDERS OR DRY ICE OR WORKING AROUND BULK CONTAINERS.

Supplemental Safety and Health

Chemical Properties

Vapor Pres: 21.1C, 70F

Solubility in Water: @1ATM, 25C

Appearance and Odor: COLORLESS, ODORLESS, SLIGHTLY ACID GAS.

Stability

Stability Indicator/Materials to Avoid: YES

REACTIVE METALS (SUCH AS ALKALI METALS, MAGNESIUM, ALUMINUM, TITANIUM, OR ZIRCONIUM.)

Stability Condition to Avoid: STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE.

Hazardous Decomposition Products: CARBON MONOXIDE AND OXYGEN WHEN HEATED ABOVE 1700C.

Conditions to Avoid Polymerization: IT DOES CAUSE VIOLENT POLYMERIZATION OF ACRYLALDEHYDE OR ETHYLENEIMINE.

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