

## **CARBON DIOXIDE**

### **MSDS Number**

BJRRF

### **National Stock Number**

4220-01-077-8773

### **Product Name**

CARBON DIOXIDE

### **Manufacturer**

SPARKLET DEVICES INC

### **Product Identification**

Product ID: CARBON DIOXIDE

MSDS Date: 04/01/1986

FSC: 4220

NIIN: 01-077-8773

MSDS Number: BJRRF

### **Responsible Party**

SPARKLET DEVICES INC

4400 GUSTINE AVE

ST LOUIS , MO 63116-1712

US

Emergency Phone: 314-353-0400

Info Phone: 314-353-0400

Preparer: J.O. ALLROCCO

Cage: 87286

### **Contractor**

SPARKLET DEVICES INC

ST LOUIS, MO 63116-1712

US

314-353-0400

Cage: 87286

### **Ingredients**

CARBON DIOXIDE

CAS: 124-38-9

RTECS: FF6400000

Fraction By Weight: >99.5%

OSHA PEL5000 PPM

ACGIH TLV: 5000PPM/30000STEL;93

### **Hazards**

Routes of Entry: Inhalation: YES Skin: YES Ingestion: NO

Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO

Health Hazards Acute and Chronic: CARBON DIOXIDE IS AN ASPHYXIAN. HIGH CONCENTRATIONS CAN PRODUCE PARALYSIS OF THE RESPIRATORY CONTROL CENTER OF THE NERVOUS SYSTEM. 2-3% WILL INCREASE RESPIRATION. >4% PRODUCES LABORED BREATHING AND IS DANGEROUS FOR EVEN A FEW MINUTES. >12% CAUSES RAPID UNCONSCIOUSNESS.

Explanation of Carcinogenicity: NONE OF THE INGREDIENTS IN THIS PRODUCT

IS LISTED BY NTP, IARC OR OSHA AS A CARCINOGEN.

Effects of Overexposure: FAINT "ACIDIC" TASTE, HEADACHE, DIZZINESS, SHORTNESS OF BREATH, MUSCULAR WEAKNESS, DROWSINESS, AND RINGING OF THE EARS.

Medical Cond Aggravated by Exposure: PERSONNEL WITH PRE-EXISTING CHRONIC RESPIRATORY DISEASES OR HEART DISORDER SHOULD REFRAIN FROM BREATHING EXCESSIVE CARBON DIOXIDE. RECOVERY IS USUALLY RAPID FROM SHORT TERM OVEREXPOSURE.

## First Aid

First Aid: FIRST AID: INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. RESCUE PERSONNEL SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE MASK.

## Fire Fighting

Extinguishing Media: NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. CONTAIN RUNOFF.

Unusual Fire/Explosion Hazard: HEAT OF FIRE CAN RUPTURE CONTAINERS VIOLENTLY. DO NOT USE ON FIRES INVOLVING REACTIVE METALS (SUCH AS K, NA, AL, TI, ZR), OR THEIR HYDRIDES.

## Accidental Release

Spill Release Procedures: REMOVE PERSONNEL. VENTILATE AREA. WEAR SELF-CONTAINED BREATHING APPARATUS. CLOSE THE VALVE AND RETURN THE DEFECTIVE CYLINDER TO THE SUPPLIER.

## Handling

Handling and Storage Precautions: STORE CARBON DIOXIDE CYLINDERS UPRIGHT IN A COOL, DRY LOCATION, AWAY FROM CHEMICALS WITH SAFETY CAP INSTALLED.

Other Precautions: DO NOT BREATHE VAPORS.

## Exposure Controls

Respiratory Protection: WEAR SELF-CONTAINED BREATHING APPARATUS WHEN CONCENTRATIONS ARE ABOVE PEL.

Ventilation: MECHANICAL (GENERAL) AND/OR LOCAL EXHAUST VENTILATION TO KEEP EXPOSURE LEVELS BELOW PEL.

Protective Gloves: LEATHER GLOVES.

Eye Protection: SAFETY GLASSES OF FULL FACE SHIELD.

Other Protective Equipment: SELF-CONTAINED BREATHING APPARATUS. SAFETY SHOES. DO NOT WEAR CONTACT LENSES.

Work Hygienic Practices: KEEP SAFETY VALVES IN GOOD WORKING CONDITIONS. KEEP DEBRIS AND UNNECESSARY EQUIPMENT AWAY FROM CO<sub>2</sub> EQUIPMENT.

Supplemental Safety and Health

CARBON DIOXIDE PER BB-C-101, GRADE B, TYPE 1.

## Chemical Properties

HCC: G3

Vapor Density: 1.5

Appearance and Odor: COLORLESS GAS. ODORLESS.

## Stability

Stability Indicator/Materials to Avoid: YES

REACTIVE METALS (SUCH AS ALKALI METALS, MAGNESIUM, ALUMINUM, TITANIUM, ZIRCONIUM) AND THEIR HYDRIDES.

Stability Condition to Avoid: HIGH HEAT, OPEN FLAMES.

Hazardous Decomposition Products: CARBON DIOXIDE CAN DECOMPOSE TO CARBON MONOXIDE AND OXYGEN ABOVE 3000F.

## Disposal

Waste Disposal Methods: CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER. MANUFACTURER RECOMMENDS VENTING SLOWLY TO ATMOSPHERE WITH ADEQUATE VENTILATIONS. DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.