

SPARKLET DEVICES INC -- CARBON DIOXIDE -- 4220-01-077-8773

=====
Product Identification
=====

Product ID:CARBON DIOXIDE
MSDS Date:04/01/1986
FSC:4220
NIIN:01-077-8773
MSDS Number: BJRRF
=== Responsible Party ===
Company Name:SPARKLET DEVICES INC
Address:4400 GUSTINE AVE
City:ST LOUIS
State:MO
ZIP:63116-1712
Country:US
Info Phone Num:314-353-0400
Emergency Phone Num:314-353-0400
Preparer's Name:J.
O. ALLROCCO
CAGE:87286
=== Contractor Identification ===
Company Name:SPARKLET DEVICES INC
Address:4400 GUSTINE AVE
Box:City:ST LOUIS
State:MO
ZIP:63116-1712
Country:US
Phone:314-353-0400
CAGE:87286

=====
Composition/Information on Ingredients
=====

Ingred Name:CARBON DIOXIDE
CAS:124-38-9
RTECS #:FF6400000
Fraction by Wt: >99.5%
Other REC Limits:NONE SPECIFIED
OSHA PEL:5000 PPM
ACGIH TLV:5000PPM/30000STEL;93

=====
Hazards Identification
=====

=

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 ASPHYXIANT. HIGH CONCENTRATIONS CAN PRODUCE PARALYSIS OF THE RESPIRATORY CONTROL CENTER OF THE NERVOUS SYSTEM. 2-3% WILL INCREASE RESPIRATION. >4% PRODUCES LABORED BREATHING AND I S 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 Measures =====
=====

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

=====
===== Fire Fighting Measures =====
=====

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 Measures =====
=====

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

=====
===== Handling
=====

and Storage =====

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/Personal Protection =====

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 CO2 EQUIPMENT.

Supplemental Safety and Health

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

===== Physical/Chemical Properties =====

HCC:G3

Vapor

Density:1.5

Appearance and Odor:COLORLESS GAS. ODORLESS.

===== Stability and Reactivity Data =====

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 Considerations =====

=====

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 t
o 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.