

SPARKLET DEVICES INC -- MIL-C-601 CARBON DIOXIDE CYLINDER -- 4220-00-837-3322

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

Product ID:MIL-C-601 CARBON DIOXIDE CYLINDER

MSDS Date:04/01/1986

FSC:4220

NIIN:00-837-3322

MSDS Number: BLBBG

=== 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 Phon

e Num:314-353-0400

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: 100%

Other REC Limits:NONE SPECIFIED

OSHA PEL:5000 PPM

ACGIH TLV:5000PPM/30000STEL;93

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

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Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:CARBONDIOXIDE IS AN ASPHIXIANT. AS A LIQUID OR SOLID, ITS HIGH RATE OF EVAPORATION CREATES AN INTENSE COOLING OF THE BODY TISSUE CONTACTED WHICH RESULTS IN FROSTBITE.
Explanation of Carcinogenicity:PRODUCT IS NOT LISTED AS A CARCINOGEN BY IARC, NTP, OR OSHA.
Effects of Overexposure:CONTACT:FROSTBITE AND FREEZE BURNS.
INHALED:HEADACHE, DIZZINESS SHORTNESS OF BREATH AND OTHER SYMPTOMS OF OXYGEN STARVATION. HIGH CONCENTRATIONS PRODUCE A SLIGHT ACID TASTE ANDMAY PARALYSE THE BREAT HING CONTROL CENTER.
Medical Cond Aggravated by Exposure:OVEREXPOSURE MAY AGGRAVATE SOME PULMONARY CONDITIONS.

===== First Aid Measures =====

First Aid:CONTACT: RINSE WITH WARM WATER 15 MINUTES. GET MEDICAL ASSISTANCE IF ANY SYMPTOMS OF FROSTBITE OR FREEZING APPEAR.
INHALED:REMOVE FROM EXPOSURE. RESTORE BREATHING. BE CAUTIOUS ENTERING CLOSED ARE AS IN A RESCUE EFFORT IF WITHOUT A SUPPLIED AIR BREATHING APPARATUS.

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

Flash Point:NON-FLAMMABLE
Extinguishing Media:PRODUCT IS NON FLAMMABLE. EXTINGUISH FIRE WITH MEDIA APPROPRIATE FOR SOURCE OF FIRE.
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.
Unusual Fire/Explosion Hazard:NONE

===== Accidental Release Measures =====

Spill Release Procedures:PLACE LEAKING CYLINDERS OUTSIDE OR WHERE LEAK IS EXHAUSTED BY LOCAL EXHAUST.
Neutralizing Agent:NONE

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM

FROM PHYSICAL DAMAGE.

Other Precautions:USE A SAFETY LINE, A STAND-BY WORKER AND A SUPPLIED AIR RESPIRATOR WHEN ENTERING AREAS OF SUSPECTED OR KNOWN HIGH CONCENTRATION.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FOR REGULATIONS PERTAINING TO RESPIRATOR USE.

Ventilation:GENERAL ROOM VENTILATION IS NORMALLY ADEQUATE. USE LOCAL EXHAUST IF NECESSARY TO CONTROL EXPOSURE BELOW PEL/TLV.

Protective Gloves:THERMAL PROTECTION IF CONTACT POSSIBLE

Eye Protection:SAFETY GLASSES OR GOGGLES (NO CONTACTS!)

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices:USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID CONTACT WHENEVER POSSIBLE.

Supplemental Safety and Health
NONE

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

HCC:G4

Boiling Pt:B.P. Text:-109F,-78C

Vapor Pres:1 ATM

Vapor Density:1.5

Solubility in Water:90 ML/100 ML @ 1 ATM

Appearance and Odor:CLEAR COLORLESS GAS OR CLEAR COLORLESS HIGHLY VOLITILE LIQUID, NO ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

ALKALI AND ACTIVE METALS

Stability Condition to Avoid:NONE GIVEN BY MANUFACTURER (SUPPLIER).

Hazardous Dec

Composition Products:CARBON MONOXIDE, CARBON DIOXIDE

===== Disposal Considerations =====

Waste Disposal Methods:ALLOW TO DISSIPATE IN A MANNER THAT THE CARBON DIOXIDE WILL NOT BE SUFFICIENTLY CONCENTRATED TO ENDANGER PERSONNEL OR LIVESTOCK.

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