

SPARKLET DEVICES INC -- CARBON DIOXIDE -- 4220-00-805-8383

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Product Identification  
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Product ID:CARBON DIOXIDE

MSDS Date:04/01/1986

FSC:4220

NIIN:00-805-8383

MSDS Number: BJZDJ

=== 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

CAGE:87286

=== Con

tractor Identification ===

Company Name:JEFFERSON METALS STAMPING CO.

Address:4400 GUSTINE AVE

Box:City:ST LOUIS

State:MO

ZIP:53116-1712

Country:US

CAGE:0ZGE6

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

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Composition/Information on Ingredients  
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Ingred Name:CARBON DIOXIDE

CAS:124-38-9

RTECS #:FF6400000

Fraction by Wt: >99.5%

Other REC Limits:NONE SPECIFIED

OSHA PEL:5000 P

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Hazards Identification  
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Routes of Entry: Inhalation:YES Skin:NO 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 AND DEATH.  
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. RECOVER  
RY IS USUALLY RAPID FROM  
SHORT TERM OVEREXPOSURE.

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First Aid Measures  
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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.

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Fire Fighting Measures  
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Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.  
Fire Fighting Procedures:CARBON DIOXIDE IS NOT EFFECTIVE IN FIRES INVOLVING CHEMICALS THAT HAVE THEIR OWN OXYGEN SUPPLY OR ON FIRES INVOLVING REACTIVE CHEMICALS OR THEIR HYDRIDES.  
Unusual Fire/Explosion Hazard:CONTAINERS MAY EXPLODE VIOLENTLY ON HEAT OF FIRE. FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING AND EQUIPMENT.

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Accidental Release Measures  
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Spill Release Procedures:REMOVE PERSONNEL. VENTILATE AREA. WEAR SELF-CONTAINED BREATHING APPARATUS.

THING APPARATUS. MOVE LEAKING CONTAINER OUTDOORS IF WITHOUT RISK. SLOWLY RELEASE INTO ATMOSPHERE. RETURN DEFECTIVE CYLINDER TO SUPPLIER. TEST AREA FOR OXYGEN BEFORE ALLOWING RE-ENTRY.

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

Handling and Storage Precautions:STORE IN A COOL, DARK, WELL VENTILATED AREA AWAY FROM SOURCES OF HEAT.

Other Precautions:DO NOT STORE CYLINDERS IN ENCLOSED OR SUBSURFACE AREA. NEVER WORK ON A PRESSURIZED SYSTEM. IF THERE IS A LEAK, CLOSE THE CYLINDER VALVE, BLOW DOWN SYSTEM BY VENTING TO A SAFE PLACE, THEN REPAIR LEAK.

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

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

Ventilation:MECHANICAL (GENERAL) AND 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

CLOSE VALVE WHEN NOT IN USE AND WHEN EMPTY. CARBON DIOXIDE, BEING HEAVIER THAN AIR, TENDS TO ACCUMULATE NEAR THE FLOOR OF AN ENCLOSED SPACE DISPLACING THE AIR AND CREATING AN OXYGEN DEFICIENT ATMOSPHERE. VENTILATE BEFORE ENTRY. VERIFY SUFFICIENT OXYGEN

CONCENTRATION.

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

HCC:G3

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

Vapor Density:1.5

Solubility in Water:90 ML/100 ML @ 68F

Appearance and Odor:COLORLESS GAS, ODORLESS.

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

Stability Indicator/Materials to Avoid:YES

AVOID SODIUM HYDROXIDE MIXED WITH AL OR MG, REACTIVE CHEMICALS AND THEIR HYDRIDES.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES.

Hazard

ous Decomposition Products:IN THE PRESENCE OF AN ELECTRICAL DISCHARGE, CARBON DIOXIDE IS DECOMPOSED TO FORM CARBON MONOXIDE AND OXYGEN.

===== 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.

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