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Product ID:CARBON DIOXIDE MSDS Date:04/01/1986 FSC:4220 NIIN:00-965-0595 MSDS Number: BJYKL === 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 === Cont ractor 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

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

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 N

TP, 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 Ai

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

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

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINE

RS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:HEAT OF FIRE MAY RUPTURE CONTAINERS VIOLENTLY. CO2 IS NOT EFFECTIVE WITH CHEMICALS THAT HAVE THEIR OWN OXYGEN SUPPLY OR WITH REACTIVE METALS AND THEIR HYDRIDES.

Spill Release Procedures: REMOVE PERSONNEL. VENTILATE AREA. WEAR SELF-CONTAINED BREATHING APPARATUS. MOVE LEAKING CONTAINER OUTDOORS IF WITHOUT RISK. SLOWLY RELEASE INTO ATMOSHPHERE. RETURN DEFECTIVE CYLINDER TO SUPPLIER. TEST AREA FOR OXYGEN BEFORE ALLOWING RE-ENTRY.

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

Other Precautions:NONE.

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

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

Ventilat

ion: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

CLOSE VALVE WHEN NOT IN USE AND WHEN EMP

TY. CARBON DIOXIDE, BEING

HEAVIER THAN AIR, TENDS TO ACCUMULATE NEAR THE FLOOR OF AN ENCLOSED SPACE DISPLACING THE AIR AND CREATING AN OXYGEN DEFFICIENT ATMOSPH ERE. VENTILATE BEFORE ENTRY. VERIFY SUFFICIENT OXYGEN CONCENTRATION.

HCC:G3 Boiling Pt:B.P. Text:-109F,-78C Vapor Pres:760 Vapor Density:1.5 Solubility in Water:SLIGHT Appearance and Odor:COLORLESS GAS. ODORLESS.

======= Stability and React

Stability Indicator/Materials to Avoid:YES SODIUM PEROXIDE MIXED WITH AL AND MG. REACTIVE CHEMICALS, THEIR HYDRIDES. DRY ICE CAN FORM SHOCK SENSITIVE MIX WITH NA,K Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES. Hazardous Decomposition Products:IN THE PRESENCE OF AN ELECTRICAL DISCHARGE, CARBON DIOXIDE IS DECOMPOSED TO FORM CARBON MONOXIDE AND OXYGEN.

Waste Disposal Methods:CONTA

CT 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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