View NSN Online: https://aerobasegroup.com/nsn/4220-01-077-8773

Product ID:CARBON DIOXIDE MSDS Date:04/01/1986 FSC:4220 NIIN:01-077-8773 **MSDS Number: BPBPH** === 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 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

LD50 LC50 Mixture:LCLO INHALATION RAT IS 657,000 PPM 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:NONE SPECIFIED BY MANUFACTURER.

First Aid:INHALATION: (CAUTION! WOULD-BE RESCURERS NEED TO BE CONCERNED WITH THEIR OWN SAFETY IN

OXYGEN-DEFICIENT AREAS. USE SELF-CONTAINED

BREATHING EQUIPMENT) REMOVE VICTIM TO FRESH AIR. QUICKLY RESTORE &/OR SUPPORT BREATHING AS REQUIRED, ADMINISTER OXYGEN IF AVALIABLE.

Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPIATE FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE SELF CONTAINED BREATHING APPARATUS A

ND WEAR FULLY PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:THIS MATERIAL IS NON COMBUSTIBLE AND WILL NOT SUPPORT COMBUSTION. IT PRESENTS NO UNUSUAL EXPLOSION HAZARD UNLESS COMPRESSED GAS IS EXPOSED TO A FIRE, & RUPTURE.

Spill Release Procedures: NOTIFY SAFETY PERSONNEL OF MAJOR LEAKS OR SPILLS. EVACUATE AREA UNTIL VENTILATION CAN RESTORE A SAFE OXYGEN LEVEL. EMERGENCY PERSONNEL NEED SELF-CONTAINED BREATHIN

G EQUIPMENT	
& PROTECTIVE CLOTHING AGA INST CONTACT WITH	SOLID MATERIAL (DRY
ICE).	

Handling and Storage Precautions: STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM SOURCES OF HEAT. DO NOT STORE THEM IN ENCLOSED OR SUBSURFCE AREAS. Other Precautions: DO NOT PUT DRY ICE IN A CLOSED CONTAINER WHERE EVOLVED GAS CANNOT ESCAPE. USE AN UNSEALED, INSULATED STORAGE CHEST OR CONTAINER FOR DRY ICE. OCCUPATIONAL EXPOSURE MAY OCCUR IN PLACES SUCH AS MINES, SI LOS, VATS OR SHIP'S HOLDS. Respiratory Protection: PROVIDE AIR-SUPPLIED OR SELF-CONTAINED BREATHING EQUIPMENT FOR EMERGENCY OR NONROUTINE SITUATIONS WHERE THE LEVEL OF CARBON DIOXIDE IS EXCESSIVE. Ventilation: PROVIDE ADEQUATE GENERAL AND LOCAL EXHAUST VENTILATION TO PREVENT WORKPLACE ATMOSPHERE FROM BECOMING OXYGEN DIFICIENT. Protective Gloves: APPROVED INSULATED GL **OVES** Eye Protection:SAFETY GLASSES Other Protective Equipment: SELF-CONTAINED BREATHING APPARATUS. SAFETY SHOES. DO NOT WEAR CONTACT LENSES. PROTECTIVE CLOTHING TO PREVENT SKIN CONTA. Work Hygienic Practices: KEEP SAFETY VALVES IN GOOD WORKING CONDITIONS Supplemental Safety and Health DOT CLASSIFICATION: NONFLAMMABLE GAS. Boiling Pt:B.P. Text:109F,43C Vapor Pres:1 ATM Solubility in Water:20 C ML/100 ML Appearance and Od or:COLORLESS GAS; CLEAR, COLORLESS, VOLATILE LIQUID;

OR WHITE SOLID, ODORLESS.

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 3092F.

Conditions to Avoid Polymerization:C

## ARBON DIOXIDE CAN CAUSE VIOLENT POLYMERIZATION OF ACRYLAIDEHYDE OR ETHYLENIMINE.

Waste Disposal Methods:REMOVE THE SCRAP SOLID (SNOW OR DRY ICE), TAKE THE LEAKING CYLINDER OUTDOORS OR PLACE IT INTO A HOOD WITH GOOD FORCE VENTILATION. ALLOW GAS TO BE DISCHARGED AT A MODERATE RATE. DEFECTIVE CYLINDERS SHO ULD BE TAGGED & RETURNED TO THE SUPPLIER.

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.