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Product ID:CARBON DIOXIDE MSDS Date:07/01/1989 FSC:4220 NIIN:00-372-0585 **MSDS Number: BKBXG** === Responsible Party === Company Name: SPARKLET DEVICES INC Address:4400 GUSTINE AVE City:ST LOUIS State:MO ZIP:63116-1712 Country:US CAGE:87286 === Contractor Identification === Company Name: JEFFERSON METALS ST AMPING 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

Ingred Name:CARBON DIOXIDE CAS:124-38-9 RTECS #:FF6400000 Fraction by Wt: 100% Other REC Limits:NONE RECOMMENDED OSHA PEL:5000 PPM ACGIH TLV:5000PPM/30000STEL;93

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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:SIMPLE ASPHYXIANT.HIGH CONCENTRATIONS OF CARBON DIOXIDE IN THE AMBIENT AIR CAN REDUCE THE OXYGEN CONTENT NECESSARY TO SUPPORT LIFE.IN THE SOLID PHASE(DRY ICE) CONTACT W/BODY TISSUE WILL PRODUCE COLD B URNS OR FROSTBITE W/IN SEVERAL SECONDS. Explanation of Carcinogenicity:THIS MATERIAL IS NOT LI STED AS A CARCINOGEN BY NTP, IARC, OSHA.

Effects of Overexposure:SHORTNESS OF BREATH,HEADACHE,DIZZINESS, WEAKNESS,DROWSINESS & RINGING IN EARS.DRY ICE IN CONTACT W/BODY TISSUE PRODUCES BURNING SENSATION;& FROSTBITE OCCURS W/IN SEVERAL SECONDS.

Medical Cond Aggravated by Exposure:CONDITIONS WHICH CAUSE BREATHING DIFFICULTY.

First Aid:DO NOT ATTEMPT TO REMOVE AN INDIVIDUAL FROM THE SCENE W/OUT UTILIZING

PROPER RESCUE EQUIPMENT OR YOU MAY BECOME A CASUALTY. MOVE VICTIM TO FRESH AIR WHILE KEEPING THEM WARM, DRY & QUIET. IF BREATHING HAS STOPPED PERFORM ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

Extinguishing Media:MATERIAL IS AN EXTINGUISHING AGENT ITSELF. Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER. Unusual Fire/Explosion Hazard:CONFINEMENT OF CARBON DIOXIDE IN VESSELS CONTAINERS OF IMPROPER DESIGN CAN RESULT IN EXPLOSION OR RUPTURE FROM OVER- PRESSURIZATION.

Spill Release Procedures: EVACUATE THE AREA OF THE SPILL OR RELEASE, EMPLOY EMERGENCY FIRST AID PROCEDURES, PROVIDE PLENTY OF FRESH AIR.REMOV DRY ICE RESIDUAL & ALLOW TO SUBLIME IN A SECURED, WELL-VENTILATED AREA & CONTACT THE MANUFACTURER'S SAFETY DEPARTMENT.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions: LIQUID & VAPOR STORAGE CONTAINERS ARE UNDER HIGH PRESSURE.DO NOT MIS-HANDLE OR ABUSE, CNTS.USE ONLY EQUIPMENT DESIGNED FOR CARBON DIOXIDE. Other Precautions: AVOID DIRECT SKIN CONTACT WITH DRY ICE OR VENTING CARBON DIOXIDE LIQ OR VAPOR. USE PROTECTIVE EQUIP & CLOTHING AND GET PROPER TRAINING BEFORE HANDLING CARBON DIOXIDE IN CYLINDERS. Respiratory Protection: SELF-CONTAINED BREATHING APPARATUS- USE IN STRICT ACCORDANCE W/THE MANUFACTURER'S RECOMMENDATIONS. Ventilation: FRESH AIR LOCAL EXHAUST/MECHANICAL Protective Gloves: HEAVY TERRY-CLOTH TYPE Eye Protection: SAFETY GLASSES W/SIDE SHIELDS Other Protective Equipment: SAFETY SHOES, HARD HATS & EAR PROTECTION SHOULD BE WORN WHEN WORKING W/PRESSURIZED CARBON DIOXIDE. Work Hygienic Practices: PERSONS HANDLING CARBON DIOXIDE SHOULD BE FULLY TRAINED IN ADVANCE. **Supplemental** Safety and Health USE A PROPER PRESSURE REDUCING REGULATOR WHEN CONNECTING CYLINDER TO LOWER PRESSURE < 1500 PSIG. NEVER HEAT CYLINDER TO INCREASE DISCHARGE RATE. KEEP CYLINDERS UPRIGHT AND PROPERLY SECURED IN SECURED AREAS AWAY FROM HIGH TRAFFIC. HAVE ONLYQUALIFIED PERSONNEL **REFILL CYLINDERS.** HCC:G3 Boiling Pt:B.P. Text:-109F,-79C Vapor Pres:1 ATM Vapor Density:1.5 AIR=1 Solubility in Water:90ML/100ML H2O А ppearance and Odor: IN SOLID TRANSLUCENT WHITE & ODORLESS. IN GAS & LIQ COLORLESS & ODORLESS. Percent Volatiles by Volume:100 Stability Indicator/Materials to Avoid:YES ACTIVE ALKALI METALS(SUCH AS SODIUM, POTASSIUM, MAGNESIUM, ALUMINUM, TITANIUM, ZIRCONIUM), ORGANOMETALLICS, HYDRIDES. Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:HEATING ABOVE 1700C CAUSES DECOMPOSITIO

N OF CARBON MONOXIDE & OXYGEN. Conditions to Avoid Polymerization:IT CAUSES VIOLENT POLYMERIZATION OF ACRYLALDEHYDE OR ETHLENEIMINE.

Waste Disposal Methods:ALLOW CARBON DIOXIDE TO RELEASE, SUBLIME OR DISSIPATE IN THE OPEN AIR.AVOID RELEASING IN COURTYARDS OR INDOORS OR ANY AREAS WHERE HEAVY CARBON DIOXIDE VAPORS CAN ACCUMULATE.

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