View NSN Online: https://aerobasegroup.kr/nsn/4220-00-372-0585 SPARKLET DEVICES INC -- CARBON DIOXIDE -- 4220-00-372-0585 ============= Product Identification ======================== 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 STAMP ING 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 ====== Composition/Information on Ingredients ========

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

====== Haza

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 LISTE D 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 PRO

PER 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.

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

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 IMP

ROPER DESIGN CAN RESULT IN EXPLOSION OR RUPTURE FROM OVER- PRESSURIZATION.

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

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.

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andling and Storage ==========

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.

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

R

espiratory 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 Saf

ety 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.

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

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

Appe

arance and Odor:IN SOLID TRANSLUCENT WHITE & ODORLESS.IN GAS & LIQ

COLORLESS & ODORLESS. Percent Volatiles by Volume:100

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

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 DECOMPOSITION O

F CARBON MONOXIDE & OXYGEN.

Conditions to Avoid Polymerization:IT CAUSES VIOLENT POLYMERIZATION OF ACRYLALDEHYDE OR ETHLENEIMINE.

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

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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