

STATE MACHINE PRODUCTS INC (OUT OF BUSINESS) -- CARBON DIOXIDE FIRE EXTINGUISHER --  
7360-00-187-4757

===== Product Identification =====

Product ID:CARBON DIOXIDE FIRE EXTINGUISHER

MSDS Date:09/17/1992

FSC:7360

NIIN:00-187-4757

MSDS Number: BNTBC

=== Responsible Party ===

Company Name:STATE MACHINE PRODUCTS INC (OUT OF BUSINESS)

Address:22 WARSAW RD

City:DRY RIDGE

State:KY

ZIP:41035-9757

Country:US

Info Phone Num:804-279-4371 (DGSC-HMIS)

Preparer's Name:HMIS TE

CHNICIAN

CAGE:18789

=== Contractor Identification ===

Company Name:STATE MACHINE PRODUCTS INC.

Address:22 WARSAW RD

Box:City:DRY RIDGE

State:KY

ZIP:41035-9757

Country:US

Phone:606-823-5311

CAGE:18789

===== Composition/Information on Ingredients =====

Ingred Name:CARBON DIOXIDE

CAS:124-38-9

RTECS #:FF6400000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED

OSHA PEL:5000 PPM

ACGIH TLV:5000PPM/30000STEL;93

===== Hazards Identification =====

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 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. RECOVERY IS USUALLY RAPID FROM SHORT TERM OVEREXPOSURE.

===== 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 WIHT FULL FACE MASK.

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

Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.  
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.  
Unusual Fire/Explosion Hazard:CONTAINERS MAY RUPTURE VILENTLY ON HEAT OF FIRE. VAPORS HEAVIER THAN AIR. MAY ACCUMULATE IN LOW AREAS. DO NOT USE ON REACTIVE METALS AND THEIR HYDRIDES.

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

Spill Release Procedures:REMOVE PERSONNEL. VENTILATE AREA. WEAR SELF-CONTAINED BREATHING APPARATUS. CLOSE THE VALVE AND RETURN THE DEFECTIVE CYLINDER TO THE SUPPLIER.

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Handling and Storage =====

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

Other Precautions:DO NOT BREATHE VAPORS.

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

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

Ventilation:MECHANICAL (GENERAL) AND/OR LOCAL EXHAUST VE  
NTILATION 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

MSDS GENERATED BY HMIS TECHNICIAN FROM SIMILAR ITEM BY ANOTHER  
MANUFACTURER. MANUFAC  
TURER IS OUT OF BUSINESS. MIL SPEC FOR  
ASSESSORY KIT IS MIL-R-14601.

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

HCC:G3

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

Appearance and Odor:COLORLESS GAS. NO ODOR.

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

Stability Indicator/Materials to Avoid:YES

REACTIVE METALS SUCH AS SODIUM, POTASSIUM, 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 3000F.

===== 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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