

PENN METAL FABRICATORS INC -- CARBON DIOXIDE -- 7360-00-187-4757

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Product Identification
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Product ID:CARBON DIOXIDE

MSDS Date:06/22/1988

FSC:7360

NIIN:00-187-4757

MSDS Number: BNTBF

=== Responsible Party ===

Company Name:PENN METAL FABRICATORS INC

Address:NEW GERMANY ROAD

City:EBENSBURG

State:PA

ZIP:15931

Country:US

Info Phone Num:814-472-6000

Emergency Phone Num:814-472-6000

CAGE:32682

=== Contractor Identification ===

Company Name:AMEREX CORPORATION

Address:7595 GADSDEN HWY E

Box:81

City:TRUSSVILLE

State:AL

ZIP:35173-0081

Country:US

Phone:205-655-3271

CAGE:54905

Company Name:PENN METAL FABRICATORS INC

Address:NEW GERMANY ROAD

Box:City:EBENSBURG

State:PA

ZIP:15931

Country:US

Phone:814-472-6000

CAGE:32682

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Composition/Information on Ingredients
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Ingred Name:CARBON DIOXIDE

CAS:124-38-9

RTECS #:FF6400000

Fraction by Wt: 100%

Other REC Limits:NONE SP

ECIFIED
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 IS DANGEROUS FOR E
VEN 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 EXCESSIV
E CARBON DIOXIDE. RECOVERY IS USUALLY RAPID FROM
SHORT TERM OVEREXPOSURE.

===== First Aid Measures =====

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 Fight
ing 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-CO

NTAINED BREATHING APPARATUS. CLOSE THE VALVE AND RETURN THE DEFECTIVE CYLINDER TO THE SUPPLIER.

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Handling and Storage
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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.

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Exposure Controls/Personal Protection
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Respiratory Protection:WEAR SELF
-CONTAINED BREATHING APPARATUS WHEN
CONCENTRATIONS ARE ABOVE PEL.

Ventilation: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
NONE.

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Physical/Chemical Properties
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HCC:G3

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

Appearance and Odor:COLORLESS GAS. NO ODOR.

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Stability and Reactivity Data
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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 Prod

ucts: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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