

GENERAL FIRE EXTINGUISHER CORP -- FIRE EXTINGUISHER,CARBON DIOXIDE --
4210-01-048-8646

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

Product ID:FIRE EXTINGUISHER,CARBON DIOXIDE
MSDS Date:08/29/1995
FSC:4210
NIIN:01-048-8646
MSDS Number: CBTDB
=== Responsible Party ===
Company Name:GENERAL FIRE EXTINGUISHER CORP
Address:1685 SHERMER RD
City:NORTHBROOK
State:IL
ZIP:60062
Country:US
Info Phone Num:708-272-7500
 / FAX 708-272-7286
Emergency Phone Num:708-272-7500/800-535-5053(INFOTRAC)
Preparer's Name:WILLIAM R. WARNOCK
CAGE:99539
=== Contractor Identification ===
Company Name:GENERAL FIRE EXTINGUISHER CORP
Address:1685 SHERMER RD
Box:City:NORTHBROOK
State:IL
ZIP:60062-5315
Country:US
Phone:(708) 847-272-7500; 847-272-7500
CAGE:99539

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

Ingred Name:CARBON DIOXIDE
CAS:124-38-9
RTECS #:FF6400000
Fraction by Wt: 100%
Other REC Limits:NON

E RECOMMENDED
OSHA PEL:5000 PPM
ACGIH TLV:5000PPM/30000STEL;96

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

LD50 LC50 Mixture:TLV IS 5000 PPM.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:LUNGS, HEART, CNS, EYES, SKIN. ACUTE- CONTACT WITH LIQUID CAN CAUSE SKIN FROSTBITE. GAS MAY CAUSE EYE IRRITATION. ASPHYXIANT. INHALATION MAY CAUSE RESPIRATORY ACIDO

SIS. HIGH CONCENTRATIONS MAY CAUSE RAPID CIRCULATORY INSUFFICIENCY LEADING TO DEATH. INGESTION UNLIKELY. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION, FROSTBITE, HEADACHE, DROWSINESS, DIZZINESS, STINGING OF THE EYES, NOSE AND THROAT, EXCITATION, RAPID BREATHING AND HEART RATE, EXCESS SALIVATION, SHORTNESS OF BREATH, MUSCULAR WEAKNESS, RINGING IN THE EAR, UNCONSCIOUSNESS, COMA, NAUSEA, VOMITING, WATERY EYES (FORMATION OF WEAK CARBONIC ACID)

Medical Cond Aggravated by Exposure:PERSONNEL WITH PRE-EXISTING CHRONIC RESPIRATORY DISEASES OR HEART DISORDERS SHOULD REFRAIN FROM BREATHING EXCESSIVE CARBON DIOXIDE.

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

First Aid:INHALATION:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. SEE AN OPHTHALMOLOGIST, URGENTLY. SKIN:FLUSH WITH WARM WATER (NOT TO EXCEED 107 F). PROMPT MEDICAL

ATTENTION IS MANDATORY IN ALL CASES

OF OVEREXPOSURE TO CO2. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF CONTAINED BREATHING APPARATUS. ORAL:TREAT SYMPTOMATICALLY. CALL PHYSICIAN.

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

Flash Point:NONE

Extinguishing Media:CARBON DIOXIDE CANNOT CATCH FIRE. USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A NIOSH-APP

ROVED SELF CONTAINED BREATHING APPARATUS. COOL FIRE
EXPOSED CONTAINERS WITH WATER SPRAY. EVACUATE AREA.
Unusual Fire/Explosion Hazard:CYLINDERS MAY EXPLODE DUE TO HEAT OF
FIRE.

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

Spill Release Procedures:LIQUID CARBON DIOXIDE WILL FORM SOLID CO2 (DRY
ICE) WHEN RELEASED TO ATMOSPHERIC PRESSURE. THE AREA SHOULD BE
VENTILATED. CLEAN UP PERSONNEL SHOULD WEAR SELF-CONTAINED BREATHING
APPARATUS WITH FULL FACE MASK
AND HEAVY PROTECTIVE CLOTHING.
Neutralizing Agent:NOT RELEVANT

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN A COOL, WELL-VENTILATED DARK
PLACE. NEVER WORK ON A PRESSURIZED SYSTEM. IF THERE IS A LEAK,
CLOSE THE CYLINDER VALVE AND BLOW DOWN THE SYSTEM
Other Precautions:KEEP AWAY FROM SOURCES OF HEAT. CAUTION! CAN CAUSE
RAPID SUFFOCATION DUE TO OXYGEN DEFICIENCY. USE WITH ADEQUATE
VENTILATION. CO2 IS HEAVIER THAN AI
R AND TENDS TO ACCUMULATE NEAR
THE FLOOR IN CLOSED S PACES. READ ALL LABELS AND INSTRUCTIONS.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL USE. HOWEVER,
AIR-SUPPLIED RESPIRATORS ARE REQUIRED WHILE WORKING IN CONFINED
SPACES WITH THIS PRODUCT. THE RESPIRATORY PROTECTION USE MUST
CONFORM WITH OSHA RULES AS SPECIF IED IN 29 CFR 1910.134.
Ventilation:SUFFICIENT TO PREVENT ACCUMULATION ABOVE TLV. LOCAL EXHAUST
LOCATED NEAR THE FLOOR.
Protective Gloves:INSULATED AND COLD RESISTANT NEOPRENE
Eye Protection:SAFETY GOGGLES RECOMMENDED
Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER,
INDUSTRIAL-TYPE WORK CLOTHING, SAFETY SHOES AND APRON AS REQUIRED.
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES.
Supplemental Safety and Health

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

HCC:G3
NRC/State Lic Num:NOT RELEVANT
Boiling

Pt:B.P. Text:-109F SUBLI
Melt/Freeze Pt:M.P/F.P Text:-109F SUBLI
Vapor Pres:44705 @70F
Vapor Density:1.53
pH:ACIDIC
Viscosity:NOT RELEVANT
Evaporation Rate & Reference:NOT RELEVANT
Solubility in Water:SLIGHT
Appearance and Odor:COLORLESS, ODORLESS GAS
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
MATERIALS THAT REACT WITH CABONIC ACID SUCH AS ALKALIES
Stability Condition to Avoid:OVERHEATING C
YLINDERS
Hazardous Decomposition Products:CAN DECOMPOSE TO CARBON MONOXIDE AND
OXYGEN.

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

Waste Disposal Methods:SLOWLY RELEASE INTO ATMOSPHERE OUTDOORS.
DISPOSAL SHOULD BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL
REGULATIONS. DEFECTIVE CYLINDERS SHOULD BE TAGGED TO INDICATE A
DEFECT.

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.