

FLAG FIRE INC -- FIRE EXTINGUISHER CARBON DIOXIDE (A-A-1106B -- 4210-00-540-0550

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

Product ID:FIRE EXTINGUISHER CARBON DIOXIDE (A-A-1106B

MSDS Date:11/08/1991

FSC:4210

NIIN:00-540-0550

MSDS Number: BRQDH

=== Responsible Party ===

Company Name:FLAG FIRE INC

Address:300 PHILLIPS AVE

City:TOLEDO

State:OH

ZIP:43612

Country:US

Info Phone Num:419-867-8700/FAX 419-867-851

2

Emergency Phone Num:419-867-8700, 419-269-1800

CAGE:0KS85

=== Contractor Identification ===

Company Name:FLAG FIRE INC

Address:5655 OPPORTUNITY DR

Box:City:TOLEDO

State:OH

ZIP:43612

Country:US

Phone:419-269-1800

CAGE:0KS85

=====  
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 Identificati

on =====

LD50 LC50 Mixture:ORAL LD50 (RAT) IS NOT RELEVANT

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

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

Effects of Overexposure:FROSTBITES, FREEZE BURNS. INHALATION OF VAPORA:INCREASED RESPIRATION & HEADACHE; NAUSEA, VOMITING & UNCONSCIOUSNESS, HIGHER CONCENTRATION MAY LEAD TO COMA & DEATH.

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

First Aid:GET MEDICAL ATTENTION. INHALATION:REMOVE TO FRESH AIR. GIVE

CPR/OXYGEN IF NEEDED. EYES:IMMEDIATELY FLUSH WITH PLENTY OF TEPID WATER/STERILE SALINE. SKIN:FLUSH WITH LUKEWARM WATER. DO NOT USE HOT WATER. PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO CO2. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF CONTAINED BREATHING APPARATUS.

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

Flash Point:NONE

Extinguishing Media:MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting

Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:CO2 IS A NON-FLAMMABLE GAS. HOWEVER, EXPOSURE TO FIRE OR SEVERE OVERHEATING CAN CAUSE CARBON DIOXIDE CYLINDERS TO BURST.

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

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM AREA. USE APPROPRIATE PROTECTIVE EQUIPMENT.

VENTILATE AREA AND AVOID CONTACT

WITH SOLID OR LIQUID, SHUT OFF VALVE SUPPLY FROM LEAKING CYLINDERS.

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, VENTILATED PLACE. DO NOT STORE ABOVE 52C.

Other Precautions:AVOID BREATHING OF VAPORS, DO NOT ENTER LOW LYING AREAS WITH PROTECTIVE EQUIPMENT. AVOID CONTACT WITH EYES OR SKIN. USE WITH ADEQUATE VENTILATION.

=====

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

Respiratory Protection: POSITIVE PRESSURE AIR LINE WITH FULL FACE PIECE AND ESCAPE AIR SUPPLY OR SELF CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE, OR FOR USE IN CONFINED AREAS AND LOW LYING AREAS.

Ventilation: SUFFICIENT TO PREVENT ACCUMULATION ABOVE TLV. LOCAL EXHAUST SHOULD BE LOCATED NEAR THE FLOOR.

Protective Gloves: INSULATED AND COLD RESISTANT

Eye Protection: SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

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

HCC: G1

Melt/Freeze Pt: M.P/F.P Text: -109F, -79C

Vapor Pres: 6824KPA@21

Vapor Density: 1.53

Spec Gravity: 0.713

Evaporation Rate & Reference: GAS

Solubility in Water: 1 TO 1 @ 60F & 1 ATM

Appearance and Odor: COLORLESS, ODORLESS GAS

Percent Volatiles by Volume: 100

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

Stability Indicator/Materials to Avoid: YES

MOISTURE

Stability Condition to Avoid: EXTREME HEAT AND FLAMES

Hazardous Decomposition Products: NONE

==== Disposal Considerations =====

Waste Disposal Methods: CONTAMINATED AREA SHOULD BE VENTILATED THOROUGHLY. SOLID CARBON DIOXIDE SHOULD BE REMOVED TO OPEN AREAS

AND ALLOWED TO SUBLIMATE.

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.