

MFR UNKNOWN/DEFENSE CONSTRUCTION S.CTR. PROCURED --

EXTINGUISHER,FIRE,VAPORIZING LIQUID -- 4210-01-143-5938

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

Product ID:EXTINGUISHER,FIRE,VAPORIZING LIQUID

MSDS Date:07/12/1989

FSC:4210

NIIN:01-143-5938

MSDS Number: BGXKZ

=== Responsible Party ===

Company Name:MFR UNKNOWN/DEFENSE CONSTRUCTION S.CTR. PROCURED

Box:3990

City:COLUMBUS

State:OH

ZIP:43216-5000

Country:US

Info Phone Num:614-238-3131

Preparer's Name:DGSC-SLM/DOD HMIS

CAGE:JO772

=== Contractor Identification ===

Company Name:DEFENSE CONSTRUCTION SUPPLY CENTER

Address:NONE

Box:3990

City:COLUMBUS

State:OH

ZIP:43215-5000

Country:US

Phone:614-238-3131

CAGE:16236

Company Name:MFR UNKNOWN/DEFENSE INDUSTRIAL SUPPLY CTR PROCURED

Address:700 ROBBINS AVENUE

Box:3990

City:PHILADELPHIA

State:PA

ZIP:19111-5096

Country:US

Phone:215-697-2000

CAGE:JO772

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

Ingred Name:BROMOTRIFLUOROMETHANE

CAS:75-63-8

RTECS

#:PA5245000  
OSHA PEL:1000 PPM  
ACGIH TLV:1000 PPM  
Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:LC50=416 GMM/CUM (RAT)  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: ASPHYXIAN, CNS' & PULMONARY  
EFFECTS. SKIN IRRITANT. CHRONIC:NONE KNOWN.  
Effects of Overexposure:INHAL:DIZZINESS,DISORIENTATION, IMPAIRED  
COORDINATION, NAR  
COSIS, NAUSEA, OR VOMITING, LIGHT-HEADEDNESS,  
GIDDINESS, BREATH SHORTNESS. CARDIAC ARRHYTHMIA W/UNCONSCIOUSNESS  
OR EVEN DEATH IN HI-CONC W/LONG EXPOSURES; SKIN/EYES: CONTACT W/  
LIQUID CAN CAUSE FROSTBITE, OR SKIN IRRITATION.  
Medical Cond Aggravated by Exposure:CARDIAC PROBLEMS. (PRODUCT IS AN  
ASPHYXIAN & CAN INDUCE CARDIAC MUSCLE SENSITIZATION TO  
CIRCULATING EPINEPHRINE-LIKE COMPOUNDS.)

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

First Aid:INHAL:  
REMOVE TO FRESH AIR-GET MED ATTN & GIVE O<sub>2</sub>/CPR AS  
REQUIRED FOR SITUATION @ HAND;DONOT GIVE EPINEPHRINE OR SIMILAR  
DRUGS AS CATECOLAMINES INCREASE RISK OF ELICITING CARDIAC  
DYSRYTHMIAS. EYES/SKIN:FLUSH W/WATER-TREAT FOR FROSTBITE W/MEDICAL  
ATTN; INGEST:NOT LIKELY TO OCCUR.

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

Flash Point:NONE  
Extinguishing Media:MATERIAL IS A FIRE EXTINGUISHANT & IS  
NON-FLAMMABLE. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.  
Fire Fighting Procedures:USE 'SCBA' WHEN FIGHTING FIRES WHERE CHEMICALS  
ARE INVOLVED. SCBA MAY BE NEEDED IF HALON-1301 CONTAINER RUPTURES  
OR RELEASES MATERIAL IN HEAT OF FIRE.  
Unusual Fire/Explosion Hazard:IN HEAT OF FIRE, HALON-1301 CONTAINER  
EXPOSED TO INTENSE HEAT OF FIRE MAY RUPTURE & MATERIAL COMPOSITION  
MAY OCCUR.

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

Spill Release Procedures:EVACUATE AREA OF UNNEEDED PERSONNEL, VENTILATE  
AREA ESPECIALLY

LOW PLACES WHERE HEAVY VAPORS MIGHT COLLECT. COOL  
OR REMOVE HOT METAL SURFACES OR SOURCES OF NON-EXTINGUISHED FLAMES.

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

Handling and Storage Precautions:STORE & HANDLE AS A LIQUIFIED  
COMPRESSED GAS IN DOT' APPROVED PRESSURE VESSELS AWAY FROM  
HI-TEMPERATURES.

Other Precautions:AVOID UNNECESSARY EXPOSURE TO HALON 1301! IN  
EMERGENCY, EXPOSURE SHOULD BE LIMITED TO: 0-7%, 15 MIN; 7-15%, 1  
MIN; 10-15%, 30 SEC; & F  
OR >15%, PREVENT EXPOSURE. SMALL CONC(5%)  
OF HALON EXTINGUISHES FLAMES BY CHEMICALLY INTERRUPTING COMBUSTION.

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

Respiratory Protection:NOT NORMALLY NECESSARY IF PROPER ENGINEERING  
CONTROLS ARE IN PLACE. IF PEL/TLV ARE EXCEEDED, USE POSITIVE  
PRESSURE AIR-SUPPLIED RESPIRATOR. REVIEW 29CFR1910.134  
INSTRUCTIONS/WARNINGS AS WELL AS NIOSH- RESPIRATOR DECISION LOGIC  
PUB87.108.

Ventilation:PROVIDE SUFFICIENT GENERAL/LOCAL EXHAUST  
VENTILATION IN

PATTERN/VOLUME TO CONTROL INHALATION EXPOSURES BELOW PEL/TLV.

Protective Gloves:LINED BUTYL OR AS REQUIRED FOR TASK.

Eye Protection:CHEMICAL SPLASH TYPE OR AS REQ FOR TASK.

Other Protective Equipment:AS REQUIRED TO MINIMIZE EXPOSURE & MAXIMIZE  
INDIVIDUAL PROTECTION.

Work Hygienic Practices:OBSERVE PROCEDURES SET FORTH BY SAFETY/HEALTH  
PERSONNEL FOR USE OF THIS MATERIAL FOR TASKS AT HAND.

Supplemental Safety and Health

SMALL CONC(5%) OF HALON EXTINGUISH FLAMES BY CHEMICALLY  
INTERRUPTING

COMBUSTION-NOT BY REPLACING O<sub>2</sub>. HOWEVER, VAPORIZATION OF EXCESSIVE  
AMTS CAN DEplete OR REPLACE O<sub>2</sub> NEEDED FOR BREATHING; GENERIC  
MSDS' ON NSN IDENTIFIED BY "DCSC". UPON RECEIPT OF A MFR'S MSDS  
UNDER THIS NSN, THE GENERIC WILL BE REMOVED.

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

HCC:G3

Boiling Pt:B.P. Text:-72F/-58C

Melt/Freeze Pt:M.P/F.P Text:-270F/-168C

Decomp Temp:Decomp Text:900F/482C

Vapor Pres:10738 @70F

Vapor Density:5.14

Spec Gravity:1.538  
Evaporation Rate & Reference:RAPID; REFERENCE UNK  
Solubility in Water:0.03 % 77F  
Appearance and Odor:COLORLESS LIQUID W/ SLIGHT ETHEREAL ODOR.  
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES  
ACTIVE METALS (EG. ALKALINE EARTH & ALKALINE EARTH METALS, POWDERED  
AL, ZN, BE, ETC.) & METAL HYDRIDES.  
Stability Condition to Avoid:FLAMES OR HOT SURFACES >900F CAN CAUSE  
DECOMPOSITION OF MATERIAL.  
Hazardous Decomposition Products:AT HI-TEMPS (>900F): HF, HBR, FREE BR,  
POSSIBLE CARBONYL HALIDES, & OXIDES OF BROMINE, FLUORINE, OR  
CARBON.

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

Waste Disposal Methods:COMPLY W/ ALL FEDERAL,STATE & LOCAL REGULATION.  
RECLAIM MATERIAL IN A SUITABLE VAPOR RECOVERY SYSTEM/EQUIPMENT.

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