

MFR UNKNOWN/DEFENSE CONSTRUCTION S.CTR. PROCURED --  
EXTINGUISHER,FIRE,VAPORIZING LIQUID -- 4210-01-143-5938

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Product Identification  
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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:U

S

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

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Composition/Information on Ingredients  
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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, NARCOSIS, 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 Condition Aggravated by Exposure: CARDIAC PROBLEMS. (PRODUCT IS AN ASPHYXIAN & CAN INDUCE CARDIAC MUSCLE SENSITIZATION TO CIRCULATING EPINEPHRINE-LIKE COMPOUNDS.)

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= 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 DYSRHYTHMIAS. 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: EVA

CUATE 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; & FOR >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 LOG  
IC  
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 PRECEDURES SET FORTH BY SAFETY/IH  
PERSONNEL FOR USE OF THIS MATERIAL FOR TASKS AT HAND.

Supplemental Sa  
fety 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 REMV.

===== 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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