

MFR. UNKNOWN/ DEFENSE CONSTRUCTION S.CTR. PROCURED --  
EXTINGUISHER,FIRE,VAPORIZING LIQUID -- 4210-01-202-9786

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Product Identification  
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Product ID:EXTINGUISHER,FIRE,VAPORIZING LIQUID

MSDS Date:07/12/1989

FSC:4210

NIIN:01-202-9786

MSDS Number: BGXNW

=== Responsible Party ===

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

Box:3990

City:COLUMBUS

State:OH

ZIP:43216-5000

Count

ry:US

Info Phone Num:614-238-3131

Preparer's Name:DGSC-SLM/ DOD-HMIS

CAGE:MO879

=== 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 CONSTRUCTION S.CTR. PROCURED

Box:3990

City:COLUMBUS

State:OH

ZIP:43216-5000

Country:US

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CAGE:MO879

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Composition/Information on Ingredients  
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Ingred Name:TR

IFLUOROBROMOMETHANE (HALON 1301) (SARA III)

CAS:75-63-8

RTECS #:PA5425000

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9192

Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:LC50 @ 416 GM/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:

INHALATION: DIZZINESS, DISORIENTATION, IMPAIRED

COORDINATION, NARCOSIS, NAUSEA, OR VOMITING, LIGHT-HEADEDNESS, GIDDINESS, BREATH SHORTNESS. CARDIAC ARRHYTHMIA W/ UNCONSCIOUSNESS OR EVEN DEATH IN HIGH CONCENTRATION WITH LONG EXPOSURE; SKIN/EYES: CONTACT WITH LIQUID CAN CAUSE FROSTBITE, OR SKIN IRRITATION.

Medical Conditions Aggravated by Exposure: CARDIAC PROBLEMS. (PRODUCT IS AN ASPHYXIAN & CAN INDUCE CARDIAC MUSCLE SENSITIZATION TO CIRCULATING EPINEPHRINE-LIKE COMPOUNDS.)

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

First Aid: INHALATION: REMOVE TO FRESH AIR-GET MED. ATTENTION. & GIVE O<sub>2</sub>/CPR AS REQUIRED FOR SITUATION & HAND; DO NOT GIVE EPINEPHRINE OR SIMILAR DRUGS AS CATECHOLAMINES INCREASE RISK OF ELICITING CARDIAC DYSRHYTHMIA. EYES/SKIN: FLUSH WITH WATER - TREAT FOR FROSTBITE WITH MEDICAL ATTENTION. ; INGESTED: 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 RELEASSES 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% 30SEC; & 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 INSTRUCTION/WARNINGS AS WELL AS NIOSH-RE SPIRAT OR 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. IH PERSONNEL FOR USE OF THIS MATERIAL FOR 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 "DGSC". 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

D

ecomp Temp:Decomp Text:900F/482C

Vapor Pres:10738 &70F

Vapor Density:5.14

Spec Gravity:1.538

Evaporation Rate & Reference:RAPID REFERENCE UUNK.

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.

Stabilit

y 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 BROMING, FLURINE, OR CARBON.

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

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

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