

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

EXTINGUISHER,FIRE,VAPORIZING LIQUID -- 4210-01-202-9786

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

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

Country: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

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

Ingred Name:TRIFLUOROBROMOMETHANE (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:INHAL:DIZZINESS, DISORIENTATION, IMPAIRED
COORDINATI
ON, NARCOSIS, NAUSEA, OR VOMITING, LIGHT-HEADEDNESS,
GIDDINESS, BREATH SHORTNESS. CARDIAC ARRHYTHMIA W/ UNCONSCIOUSNESS
OR EVEN DEATH IH HI-CONC W/L ONG EXPOSURE; 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:I
NHAL:INHAL: REMOVE TO FRESH AIR-GET MED. ATTN. & GIVE
O*2/CPR AS REQUIRED FOR SITATION & HAND; DO NOT GIVE EPINEPHRINE OR
SIMILAIR DRUGS AS CATECOLAMINES INCREASEMRISK OF ELICITING CARDIAC
DYSRYTHMIA S. EYES/SKIN: FLUSH W/WATER - TREAT FORFROSTBITE
W/MEDICAL ATTN. ; 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 CHEMICAL
ARE INVOLVED. SCBA MAY BE NEEDED IF HALON-1301 CONTAINER RUPTURES
OR REALEASES 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-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. INHIBIT PERSONNEL FROM 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 O₂. HOWEVER, VAPORIZATION OF EXCESSIVE AMTS. CAN DEplete OR REPLACE O₂ 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

Decomp Temp:Decomp Text:900F/482C

Vapor Pres:10738 &70F

Vapor Den

sity: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.

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 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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