

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  
Box:3990  
City:COLUMBUS  
State:OH  
ZIP:43216-5000  
Country:US  
Phone:614-238-3131  
CAGE:MO879

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

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 Over

xposure:INHAL:DIZZINESS, DISORIENTATION, IMPAIRED

COORDINATION, 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.)

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

First Aid:INHAL: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-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.

Suppl

emental 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 REMV.

===== 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.  
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  
REGULATIONS. RECLAIM MATERIAL IN A SUITABLE VAPOR RECOVERY  
SYSTEM/EQUIPMENT.

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