

MFR. UNKNOWN/ DEFENSE CONSTRUCTION S.CTR PROCURES. --
EXTINGUISHER,FIRE,VAPORIZING LIQUID -- 4210-01-088-7560

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

Product ID:EXTINGUISHER,FIRE,VAPORIZING LIQUID

MSDS Date:07/12/1989

FSC:4210

NIIN:01-088-7560

MSDS Number: BHGFJ

=== Responsible Party ===

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

Box:3990

City:COLUMBUS

State:OH

ZIP:43216-5000

Coun

try:US

Info Phone Num:614-238-3131

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:BROMOCHLORODIFLUOROMETHANE (AS EXTIN

GUISHING AGENT)
CAS:353-59-3
RTECS #:PA5270000
Other REC Limits:SEE LC50 INFORM.
OSHA PEL:NONE ESTABLISHED
ACGIH TLV:NONE ESTABLISHED

Ingred Name:NITROGEN
CAS:7727-37-9
RTECS #:QW9700000
ACGIH TLV:ASPHYXIAN; 9192

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

LD50 LC50 Mixture:LC50 (RAT): 20 PPH/15M
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' & PULMON
ARY

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 Cond Aggravated by Exposure:CARDIAC PROBLEMS. (PRODUCT IS AN
ASPHYXIAN & CAN INDUCE CARDIAC MUSLE SENSITIZAT
ION TO CIRCULATING
EPINEPHRINE-LIKE COMPOUNDS.)

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

First Aid:INHAL: REMOVE TO FRESH AIR-GET MED. ATTN. & GIVE O*2/CPR AS
REQUIRED FOR SITUATION & HAND; DONOT GIVE EPINEPHRINE OR SIMILIAR
DRUGS AS CATECOLAMINES INCREASE RISK OF ELICITING CARDIAC
DYSRYTHMIAS. EYE S/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-1211 CONTAINER RUPTURES
OR RELEASES MATERIAL IN HEAT OF FIRE.
Unusual Fire/Explosion Hazard:IN HEAT OF FIRES, HALON-1211 CONTAINER
EXPOSED TO INTENSE HEAT OF FIRE MAY RUPTURE & MATERIAL
DECOMPOSITION MAY OCCUR.

=====

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

Spill Release Procedures:EVACUATE AREA OF UNNEEDED PERSONNEL VENTILATED 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 1211 ! ABOVE 4%(17 LBS/1000 CU FT AIR & > 1 MIN:DIZZINESS,IMPAIRED COORDINATION & REDUCED MENTAL ALERTNESS; ABOVE 5% CONC(22 LBS/1000 CU FT OF AIR),USE AIR-SUPPLIED RESPIRATORS.

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

Respiratory Protection:NOT NORMALLY NECESSARY IF PROPER ENGINEERING CONTROLS ARE IN PLACE. IF PEL/TVL ARE EXCEEDED, USE POSITIVE PRESSURE AIR-SUPPLIED RESPIRATOR. REVIEW 29CFR1910.13

4

INSTRUCTION/WARNINGS AS WELL AS NIOSH-R ESPIRATOR DECISION LOGIC PUB#87.108.

Ventilation:PROVIDE SUFFICIENT GENERAL/LOCAL EXHAUST VENTILATION IN PATTERN/VOLUME TO CONTRPL INHALATION EXPOSURE 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 EXPOSE & MAXIMIZE INDIVIDUAL PROTECTION.

Work Hygienic Practices:OBSERVEPROCEDIURES SET FORTH BY SAFETY/ IH PE

PERSONNEL FOR USE OF THIS MATERIAL FOR TASK AT HAND.

Supplemental Safety and Health

SMALL CONC(5%) OF HALON EXTINGUISH FLAMES BY CHEMICALLY INTERRUPTING COMBUSTION-NOT BY REPLACING O*2 . HOWEVER, VAPORIZATION OF EXCESSIVE AMTS. CAN DEplete OR REPLACE O*2 NEEDED FOR BREATHING; GENERIC 'MSDS' ON NSN IDENTIFIED BY "DGSC". UPON RECIEPT OF MFR'S MSDS UNDER THIS NSN, THE GENERIC WILL BE REMV.

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

HCC:G3

Boiling Pt:B.P. T

ext:26F/-3.3C

Melt/Freeze Pt:M.P/F.P Text:-257F/-161C

Vapor Pres:1897 & 70F

Vapor Density:5.7

Spec Gravity:1.83

Evaporation Rate & Reference:RAPID; REFERENCE UNK.

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS LIQUIFIED GAS(SEE BOILING PT) 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, FLUORINE, OR
CARBON.

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

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

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situa
tion.