

DEFENSE GENERAL SUPPLY CENTER -- BROMOTRIFLUOROMETHANE,HALON 1301R --
6830-01-376-8394

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

Product ID:BROMOTRIFLUOROMETHANE,HALON 1301R

MSDS Date:04/25/2001

FSC:6830

NIIN:01-376-8394

Status Code:A

MSDS Number: CLCGZ

=== Responsible Party ===

Company Name:DEFENSE GENERAL SUPPLY CENTER

Address:8000 JEFFERSON DAVIS HWY

City:RICHMOND

State:VA

ZIP:23297-5000

Info Phone Nu

m:804-279-4371

Emergency Phone Num:800-851-8061

Preparer's Name:HMIS/VBA

CAGE:13873

=== Contractor Identification ===

Company Name:DEFENSE GENERAL SUPPLY CENTER

Address:8000 JEFFERSON DAVIS HWY

Box:City:RICHMOND

State:VA

ZIP:23297-5000

Phone:804-279-4371

CAGE:13873

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

Ingred Name:BROMOTRIFLUOROMETHANE

CAS:75-63-8

RTECS #:PA5425000

= Wt:100.

Code:F

Other REC Limits:NONE RECOMMENDED

OSHA PEL:6100 MG/M3;1000 PPM

ACGIH TLV:6090 MG/M

3;1000 PPM

Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:TLV IS 1000 PPM.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS: CENTRAL NERVOUS SYSTEM,
HEART, RESPIRATORY TRACT. ACUTE - EYE: THE LIQUID FORM OF THIS
PRODUCT CAN PRODUCE CHILLING SENSATION AND DISCOMFORT. SKIN:
EVAPORATION OF LIQUID FROM SKIN CAN CAUSE

SEVERE CHILLING SENSATION.

FROSTBITE CAN OCCUR. INHALATION: VAPOR IS HEAVIER THAN AIR AND CAN
CAUSE SUFFOCATION BY REDUCING OXYGEN. BREATHING VERY HIGH
CONCENTRATIONS OF VAPOR CAN CAUSE CENTRAL NERVOUS SYSTEM EFFECTS,
AND MAY LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS
OR EVEN DEATH. INGESTION: INGESTION IS NOT LIKELY TO OCCUR SINCE
THIS MATERIAL IS GAS AT ROOM TEMPERATURE. CHRONIC - UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:EYES OR SKIN

FROSTBITE AND FREEZE BURNS,

HEADACHE, DROWSINESS, DIZZINESS, RAPID BREATHING, IRREGULAR HEART
RATE, SHORTNESS OF BREATH, MUSCULAR WEAKNESS, RINGING IN THE EAR,
UNCONSCIOUSNESS, COMA, DEATH

Medical Conditions Aggravated by Exposure:PERSONNEL WITH PRE-EXISTING

DISEASES OF THE CENTRAL NERVOUS SYSTEM OR CARDIOVASCULAR SYSTEM MAY
HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE
EXPOSURES.

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

First Aid:

GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: IMMEDIATELY
FLUSH WITH WATER FOR AT LEAST 15 MINUTES. CALL PHYSICIAN. TREAT FOR
FROSTBITE IF NECESSARY. INHALED: REMOVE VICTIM TO FRESH AIR. IF
COUGH OR OTHER RESPIRATORY SYMPTOMS OCCUR, CONSULT MEDICAL
PERSONNEL. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF
BREATHING IS DIFFICULT, PROVIDE OXYGEN. SKIN: WASH THE MATERIAL OFF
THE SKIN WITH COPIOUS AMOUNT OF WATER FOR AT LEAST 15 MINUTES.
TREAT FOR POSSIBLE FROSTBITE

TE USING WARM WATER (105F). INGESTION:

INGESTION IS NOT LIKELY TO OCCUR SINCE THIS MATERIAL IS GAS AT ROOM TEMPERATURE..

===== Fire Fighting Measures =====

Flash Point:NONE

Lower Limits:NOT RELEVANT

Upper Limits:NOT RELEVANT

Extinguishing Media:THIS IS A FIRE EXTINGUISHING AGENT. USE APPROPRIATE AGENTS FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS.

COOL FIRE

EXPOSED CONTAINERS WITH WATER SPRAY. EVACUATE AREA.

Unusual Fire/Explosion Hazard:FORMS TOXIC AND/OR CORROSIVE GASES. CYLINDER MAY RUPTURE.

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

Spill Release Procedures:EVACUATE AREA. WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. REMOVE OPEN FLAMES. VENTILATE TO OUTSIDE ATMOSPHERE. STOP LEAK IF POSSIBLE. UNCONTROLLED RELEASES SHOULD BE RESPONDED TO BY TRAIN ED PERSONNEL USING PRE-PLANNED

PROCEDURES.

Neutralizing Agent:NOT RELEVANT

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN A COOL, WELL-VENTILATED PLACE AWAY FROM OPEN FLAMES AND INCOMPATIBLES. KEEP CYLINDERS SECURED AND UPRIGHT. KEEP OUT OF REACH OF CHILDREN.

Other Precautions:KEEP AWAY FROM SOURCES OF HEAT. USE WITH ADEQUATE VENTILATION. THIS GAS IS HEAVIER THAN AIR AND TENDS TO ACCUMULATE NEAR THE FLOOR IN CLOSED SPACES. READ ALL LABEL INSTRUCTIONS.

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

Respiratory Protection:IF ABOVE TLV OR UNKNOWN CONCENTRATIONS, USE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED AIR RESPIRATOR.

Ventilation:SUFFICIENT TO PREVENT ACCUMULATION ABOVE TLV. LOCAL EXHAUST LOCATED NEAR THE FLOOR.

Protective Gloves:INSULATED NEOPRENE IF HANDLING LIQUID

Eye Protection:SAFETY GOGGLES RECOMMENDED

Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, INDUSTRI

AL-TYPE WORK CLOTHING, SAFETY SHOES AND APRON AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

MATERIAL IN A FIRE EXTINGUISHER CONTAINER (CYLINDER) THAT HAS BEEN RETURNED OR RECOVERED FOR RECLAMATION.

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

HCC:G3

NRC/State Lic Num:NOT RELEVANT

Vapor Density:>1

Spec Gravity:1.57 (LIQUID)

Viscosity:NOT RELEVANT

Evaporation Rate & Refer
ence:NOT RELEVANT (GAS)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:CLEAR, COLORLESS LIQUEFIED GAS - SLIGHT ETHEREAL
ODOR

Percent Volatiles by Volume:100

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

ACTIVE METALS, ALKALI

Stability Condition to Avoid:OVERHEATING CYLINDERS, HIGH TEMPERATURES,
GLOWING METAL SURFACES, OPEN FLAME

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE,
HYDROGEN FLUORIDE, H

YDROGEN BROMIDE, BROMINE, CARBONYL FLUORIDE,
CARBONYL BROMIDE

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

Waste Disposal Methods:WASTE DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL,
STATE AND FEDERAL REGULATIONS. RECYCLE OR REUSE IF POSSIBLE.

===== MSDS Transport Information =====

Transport Information:PSN: BROMOTRIFLUOROMETHANE OR REFRIGERANT GAS,
2.2, UN1009. LABEL: NON-FLAMMABLE GAS.

===== Regulatory Informati

on =====

SARA Title III Information:IT IS LISTED ON EPCRA 313.

State Regulatory Information:CONSULT STATE AUTHORITIES.

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 situation.