

HALON 1211 RECYCLED - BROMOCHLORODIFLUOROMETHANE

MATERIAL SAFETY DATA SHEET

01/11/00

MSDS PROVIDED BY:

STOODY INDUSTRIAL AND WELDING SUPPLY, INC.

3316 National Ave., San Diego, Ca. 92113

Phone: (619) 234-6750

MILITARY EMERGENCY RESPONSE NUMBER 1-800-851-8061

DEFENSE DISTRIBUTION DEPOT RICHMOND DDRV-M -- HALON 1211 RECYCLED -
BROMOCHLORODIFLUOROMETHANE, TECHNICAL
MATERIAL SAFETY DATA SHEET

NSN:

Manufacturer's CAGE: 02LX8

Part No. Indicator: A

Part Number/Trade Name: HALON 1211 RECYCLED

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General Information
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Item Name: BROMOCHLORODIFLUOROMETHANE, TECHNICAL
Company's Name: DEFENSE DISTRIBUTION DEPOT RICHMOND/DDRV-M
Company's Street: 8000 JEFFERSON DAVIS HIGHWAY
Company's City: RICHMOND
Company's State: VA
Company's Country: US
Company's Zip Code: 23297
Company's Emerg Ph #: 804-279-3125
Company's Info Ph #: 804-279-3125
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 002
Status: SD
Date MSDS Prepared: 03OCT95
Safety Data Review Date: 10JUL97
Supply Item Manager: CX
MSDS Preparer's Name: DGSC-VBA/HMIS
Preparer's Company: DEFENSE SUPPLY CENTER
Preparer's St Or P. O. Box: 8000 JEFFERSON-DAVIS HIGHWAY
Preparer's City: RICHMOND
Preparer's State: VA
Preparer's Zip Code: 23297-5607
MSDS Serial Number: BXWNM
Specification Number: MIL-B-38741
Spec Type, Grade, Class: TYPE 1211
Hazard Characteristic Code: G3
Unit Of Issue: CY
Unit Of Issue Container Qty: 1500 LBS
Type Of Container: CYLINDER
Net Unit Weight: 1500 LBS
NRC/State License Number: NOT RELEVANT

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: BROMOCHLORODIFLUOROMETHANE (HALON 1211) (SARA 313)
Ingredient Sequence Number: 01
Percent: 100
NIOSH (RTECS) Number: 1007484BC
CAS Number: 353-59-3
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED

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Physical/Chemical Characteristics

Appearance And Odor: COLORLESS GAS WITH SLIGHT ETHEREAL ODOR
Boiling Point: 24.8F,-4.0C
Melting Point: -256F,-160C
Vapor Pressure (MM Hg/70 F): 2518 @ 68F
Vapor Density (Air=1): 6.0
Specific Gravity: 1.82
Decomposition Temperature: 850F,454C
Evaporation Rate And Ref: NOT RELEVANT
Solubility In Water: NOT MISCIBLE
Percent Volatiles By Volume: 100
Viscosity: NOT RELEVANT
Corrosion Rate (IPY): UNKNOWN

Fire and Explosion Hazard Data

Flash Point: NONE
Lower Explosive Limit: NOT RELEVANT
Upper Explosive Limit: NOT RELEVANT
Extinguishing Media: THIS IS FIRE EXTINGUISHER. COOL FIRE EXPOSED
CONTAINERS WITH WATER WELL AFTER FIRE IS OUT TO PREVENT POSSIBLE EXPLOSIONS
Special Fire Fighting Proc: WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED
SELF-CONTAINED BREATHING APPARATUS. HAZARDOUS DECOMPOSITION PRODUCTS MAY BE
FORMED.
Unusual Fire And Expl Hazrds: IRRITATING AND/OR TOXIC GASES DUE TO
DECOMPOSITION OF THE PRODUCT MAY BE GENERATED DURING A FIRE. CONTAINERS MAY
EXPLODE DUE TO FIRE.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): EXPOSURE TO FLAMES OR HOT SURFACES ABOVE 850F
(454C)
Materials To Avoid: ALKALINE EARTH METALS, ALKALI, POWDERED ALUMINUM,
ZINC, BERYLLIUM
Hazardous Decomp Products: HYDROBROMIC, HYDROCHLORIC AND HYDROFLUORIC
ACIDS, POSSIBLY FREE HALIDES AND CARBONYL HALIDES
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT

Health Hazard Data

LD50-LC50 Mixture: LD50 (ORAL, RAT) IS NOT RELEVANT.
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: TARGET ORGANS:CNS, EYES, SKIN, LUNGS. ACUTE-
EYE:CONTACT WITH LIQUID CAN CAUSE "FREEZER" BURNS. SKIN:LIQUID CAN CAUSE
FROSTBITE. ORAL:NOT LIKELY TO OCCUR (GAS AT ROOM TEMPERATURES). INHALE:AT
CONCENTRATIONS >20,000 PPM, IRREGULARITIES IN THE CENTRAL NERVOUS SYSTEM
AND CARDIAC MUSCLE ARE EXHIBITED. CHRONIC- UNKNOWN.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE
Signs/Symptoms Of Overexp: FROSTBITE, EYE BURNS, HEADACHE, DIZZINESS,
CONFUSION, INCOORDINATION, UNCONSCIOUSNESS, IRREGULAR PULSE, CONVULSION

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Med Cond Aggravated By Exp: ANEMIA, ASTHMA, DERMAL SENSITIVITY AND LOW BLOOD PRESSURE

REMOVE CONTAMINATED CLOTHING AND WASH EXPOSED SKIN WITH LARGE AMOUNT OF WATER. INHALED: REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL: NOT A POTENTIAL ROUTE OF EXPOSURE (GAS). NOTE TO PHYSICIAN: DO NOT GIVE ADRENALINE OR SIMILAR DRUGS.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: WEAR PROTECTIVE EQUIPMENTS. VENTILATE AREA ESPECIALLY LOW PLACES. REMOVE SPILL WITH ABSORBENT MATERIAL AND PLACE INTO A DRUM APPROVED FOR WASTE DISPOSAL.

Neutralizing Agent: NOT RELEVANT

Waste Disposal Method: RECOVERED MATERIAL CAN BE INCINERATED IN A FURNACE WHERE PERMITTED. OBSERVE ALL LOCAL, STATE AND FEDERAL REGULATIONS. RECYCLING OR REUSE IS RECOMMENDED.

Precautions-Handling/Storing: STORE IN A COOL, WELL-VENTILATED AREA AWAY FROM HEAT, FLAMES, HOT SURFACES AND INCOMPATIBLE MATERIALS. DO NOT SMOKE WHILE WORKING WITH THIS PRODUCT.

Other Precautions: AVOID EYE AND SKIN CONTACT. DO NOT INHALE VAPORS. KEEP OUT OF REACH OF CHILDREN. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING.

Control Measures

Respiratory Protection: IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS TO AN ACCEPTABLE LEVEL, A NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS MUST BE WORN.

Ventilation: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE TO A MINIMUM LEVEL.

Protective Gloves: NITRILE OR NATURAL RUBBER

Eye Protection: SPLASH PROOF GOGGLES WITH SIDE SHIELDS

Other Protective Equipment: EYE WASH STATION, EMERGENCY SHOWER, IMPERVIOUS BODY COVERING AND BOOTS WHERE SPILLS OR SPLASHING OCCUR

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

Suppl. Safety & Health Data: THIS MSDS WAS PREPARED BY THE PROFESSIONALS OF DGSC-VBA/HMIS WITHOUT ANY WARRANTY. IT IS THE USER'S RESPONSIBILITY TO GATHER INFORMATION AND USE THE MATERIAL PROPERLY TO PROTECT EMPLOYEES AND ENVIRONMENT.

Transportation Data

Trans Data Review Date: 95293

DOT PSN Code: DGX

DOT Proper Shipping Name: CHLORODIFLUOROBROMOMETHANE OR REFRIGERANT GAS R 12B1.

DOT Class: 2.2

DOT ID Number: UN1974

DOT Label: NONFLAMMABLE GAS

IMO PSN Code: ECT

IMO Proper Shipping Name: CHLORODIFLUOROBROMOMETHANE

IMO Regulations Page Number: 2117

IMO UN Number: 1974

IMO UN Class: 2(2.2)

IMO Subsidiary Risk Label: -

IATA PSN Code: GHG

IATA UN ID Number: 1974

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IATA Proper Shipping Name: CHLORODIFLUOROBROMOMETHANE
IATA UN Class: 2.2
IATA Label: NON-FLAMMABLE GAS
AFI PSN Code: GHG
AFI Prop. Shipping Name: CHLORODIFLUOROBROMOMETHANE
AFI Class: 2.2
AFI ID Number: UN1974
AFI Basic Pac Ref: A6.3,A6.5

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Disposal Data
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Label Data
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Label Required: YES
Technical Review Date: 20OCT95
MFR Label Number: NOT RELEVANT
Label Status: F
Common Name: 1211
Signal Word: WARNING!
Acute Health Hazard-Moderate: X
Contact Hazard-Moderate: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: TARGET ORGANS:CNS, EYES, SKIN, LUNGS. ACUTE-
EYE:CONTACT WITH LIQUID CAN CAUSE "FREEZER" BURNS. SKIN:LIQUID CAN CAUSE
FROSTBITE. ORAL:NOT LIKELY. INHALE:MAY CAUSE IRREGULARITIES IN CNS &
CARDIAC MUSCLE. CHRONIC- UNKNOWN. STORE IN COOL, VENTILATED AREA AWAY FROM
FLAMES & INCOMPATIBLES. COLLECT SPILL WITH ABSORBENT MATERIAL & PLACE INTO
A DRUM APPROVED FOR WASTE DISPOSAL. FIRST AID- CALL A DOCTOR IF SYMPTOMS
PERSIST. EYE:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS
OPEN. SKIN:REMOVE CONTAMINATED CLOTHING & WASH EXPOSED SKIN WITH LARGE
AMOUNT OF WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED.
ORAL:NOT LIKELY.
Protect Eye: Y
Protect Skin: Y
Label Name: DDRV STOCK MAINTENANCE DIV/DDRIV-M/
Label Street: 8000 JEFFERSON-DAVIS HIGHWAY
Label City: RICHMOND
Label State: VA
Label Zip Code: 23297
Label Country: US
Label Emergency Number: 800-851-8061