

HALON 1301 - MONOBROMOTRIFLUOROMETHANE

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 DEOT RICHMOND VIRGINIA -- HALON 1301 - MONOBROMOTRIFLUOROMETHANE, TECHNICAL
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NSN:

Manufacturer's CAGE: 02LX8

Part No. Indicator: C

Part Number/Trade Name: HALON 1301

General Information

Item Name: MONOBROMOTRIFLUOROMETHANE, TECHNICAL
Company's Name: DEFENSE DISTRIBUTION DEOT RICHMOND VIRGINIA
Company's Street: 8000 JEFFERSON DAVIS HIGHWAY
Company's City: RICHMIND
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
Distributor/Vendor # 1: FRC INTL INC (419-867-8990)
Distributor/Vendor # 1 Cage: 0ETK4
Record No. For Safety Entry: 003
Tot Safety Entries This Stk#: 003
Status: SE
Date MSDS Prepared: 14FEB96
Safety Data Review Date: 28FEB96
Supply Item Manager: CX
MSDS Preparer's Name: FRC INTERNATIONAL
MSDS Serial Number: BYFNV
Spec Type, Grade, Class: TYPE 1301
Hazard Characteristic Code: G3
Unit Of Issue: CY
Unit Of Issue Container Qty: UNKNOWN
Type Of Container: CYLINDER
Net Unit Weight: 1123 LBS

Ingredients/Identity Information

Proprietary: NO
Ingredient: BROMOTRIFLUOROMETHANE
Ingredient Sequence Number: 01
Percent: 100
NIOSH (RTECS) Number: 1010907TF
CAS Number: 75-63-8
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED

Physical/Chemical Characteristics

Appearance And Odor: CLEAR, COLORLESS, LIQUIFIED GAS. SLIGHT ETHERAL ODOR.
Boiling Point: -72F, -58C
Melting Point: N/A
Vapor Pressure (MM Hg/70 F): 435 PSIG
Vapor Density (Air=1): 5.14
Specific Gravity: 1.57
Evaporation Rate And Ref: >1 (CCL4=1)
Solubility In Water: 0.03 WT @ 25C
pH: 7

Fire and Explosion Hazard Data

Flash Point: NONE
Extinguishing Media: HALON 1301 IS A FIRE EXTINGUISHING AGENT.
Special Fire Fighting Proc: USE WATER SPRAY OR FOG TO COOL CONTAINERS.

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SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF CYLINDERS RUPTURE OR RELEASE UNDER FIRE CONDITIONS.

Unusual Fire And Expl Hazrds: CYLINDERS ARE EQUIPPED WITH RELIEF DEVICES BUT MAY STILL RUPTURE UNDER FIRE CONDITIONS.

Reactivity Data

Stability: YES

Cond To Avoid (Stability): NONE

Materials To Avoid: ACTIVE METALS, ALKALI, FIRES OF METAL HYDRIDES, AND MATERIAL CONTAINING OWN OXYGEN.

Hazardous Decomp Products: THE PRESENCE OF FLAMES/HOT SURFACES; HYDROGEN FLUORIDE, HYDROGEN BROMIDE, BROMINE, CARBONYL FLUORIDE, CARBONYL BROMIDE.

Hazardous Poly Occur: NO

Conditions To Avoid (Poly): HIGH TEMPERATURES, GOWING METAL SURFACES, OPEN FLAMES.

Health Hazard Data

LD50-LC50 Mixture: TLV: 1000 PPM

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: NO

Route Of Entry - Ingestion: NO

Health Haz Acute And Chronic: HALON 1301 HAS ANESTHETIC & CARDIAC EFFECTS IN HUMANS AT CONCENTRATIONS BELOW 10% ARE CONSIDERED SAFE FOR 0-5 MINUTES EXPOSURES. HALON 1301 IS CLASSIFIED AS GROUP 6 (LEAST TOXIC) IN THE UNDERWRITERS LABORATORIES CLASSIFICATION OF COMPARATIVE LIFE HAZARDS OF FIRE EXTINGUISHING AGENTS.

Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: NOT A LISTED CARCINOGEN.

Signs/Symptoms Of Overexp: THE ANESTHETIC EFFECTS OF HALON 1301 AT LEVELS BELOW 10% IS SIMILAR TO A FEELING OF MILD INTOXICATION. ANESTHETIC EFFECTS TO CONCENTRATIONS ABOVE 10% (15-20), MAY LEAD TO UNCONSCIOUSNESS AND POSSIBLY DEATH.

Med Cond Aggravated By Exp: INDIVIDUALS WITH PREEXISTING DISEASE OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURE.

Emergency/First Aid Proc: INHALE-REMOVE VICTIM TO FRESH AIR. GIVE SYMPTOMATIC AND SUPPORTIVE CARE. GET MEDICAL ATTENTION. NOTE: ADRENALINE IS CONTRAINDICATED IN THE TREATMENT OF OVEREXPOSURE TO HALON 1301. SKIN-FLUSH SKIN WITH PLENTY OF WATER FOR 15 MIN. EYE-IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MIN. NOTES TO PHYSICIAN: CATECHOLAMINE DRUGS, SUCH AS SPINEPHRICE, SHOULD BE USED WITH CAUTION.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: AIR OUT ENCLOSED OR LOW AREAS. REMOVE OPEN FLAMES. SELF-CONTAINED BREATHING APPARATUS FOR LARGE LEAKS OR SPILL.

Waste Disposal Method: COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. RECLAIM BY RECOVERY MACHINES AND REMOVE TO PERMITTED WASTE DISPOSAL FACILITY.

Precautions-Handling/Storing: AVOID CONTAINER DAMAGE.

Other Precautions: NONE.

Control Measures

Respiratory Protection: USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IF EXPOSED TO CONCENTRATIONS GREATER THAN 10%.

Ventilation: LOCAL EXHAUST, NORMAL VENTILATION ADEQUATE. MECHANICAL (GENERAL) VENTILATION, USE IN LOW OR ENCLOSED PLACES.

Protective Gloves: IMPERVIOUS GLOVES FOR PROLONGED CONTACT.

Eye Protection: SPLASH GOGGLES.

Other Protective Equipment: NONE.

Work Hygienic Practices: DETERMINE THAT PIPING IS EMPTY BEFORE DOING MAINTENANCE WORK.

Suppl. Safety & Health Data: NONE

Transportation Data

Trans Data Review Date: 96059

SIWS PROVIDES MSDS AS A COURTESY. TO ENSURE ACCURATE AND CURRENT DATA, OBTAIN AND USE ONLY MSDS FROM MANUFACTURER.

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DOT PSN Code: CEX
DOT Proper Shipping Name: BROMOTRIFLUOROMETHANE OR REFRIGERANT GAS, R
13B1.
DOT Class: 2.2
DOT ID Number: UN1009
DOT Label: NONFLAMMABLE GASS
IMO PSN Code: CMN
IMO Proper Shipping Name: BROMOTRIFLUOROMETHANE
IMO Regulations Page Number: 2109
IMO UN Number: 1009
IMO UN Class: 2(2.2)
IMO Subsidiary Risk Label: -
IATA PSN Code: DYC
IATA UN ID Number: 1009
IATA Proper Shipping Name: BROMOTRIFLUOROMETHANE
IATA UN Class: 2.2
IATA Label: NON-FLAMMABLE GAS
AFI PSN Code: DYC
AFI Prop. Shipping Name: BROMOTRIFLUOROMETHANE (R13B1)
AFI Class: 2.2
AFI ID Number: UN1009
AFI Basic Pac Ref: A6.3,A6.5
MMAC Code: NR

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Disposal Data
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Label Data
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Label Required: YES
Technical Review Date: 28FEB96
Label Status: F
Common Name: HALON 1301
Chronic Hazard: YES
Signal Word: CAUTION!
Acute Health Hazard-Slight: X
Contact Hazard-Slight: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: AVOID CONTAINER DAMAGE. CYLINDERS ARE EQUIPPED WITH RELIEF DEVICES BUT MAY STILL RUPTURE UNDER FIRE CONDITIONS. IN CASE OF SPILL: AIR OUT ENCLOSED OR LOW AREAS. REMOVE OPEN FLAMES. SELF-CONTAINED BREATHING APPARATUS FOR LARGE LEAKS OR SPILL. FIRST AID: INHALE-REMOVE VICTIM TO FRESH AIR. GIVE SYMPTOMATIC AND SUPPORTIVE CARE. GET MEDICAL ATTENTION. NOTE: ADRENALINE IS CONTRAINDICATED IN THE TREATMENT OF OVEREXPOSURE TO HALON 1301. SKIN-FLUSH SKIN WITH PLENTY OF WATER FOR 15 MIN. EYE-IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MIN. NOTES TO PHYSICIAN: CATECHOLAMINE DRUGS, SUCH AS SPINEPHRICE, SHOULD BE USED WITH CAUTION.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: DEFENSE DISTRIBUTION DEOT RICHMOND VIRGINIA
Label Street: 8000 JEFFERSON DAVIS HIGHWAY
Label City: RICHMIND
Label State: VA
Label Zip Code: 23297
Label Country: US
Label Emergency Number: 804-279-3125