



108 Liberty St | Metuchen NJ 08840  
800-422-1751 (t) | 732-452-0444 (f)  
[www.ushalonbank.com](http://www.ushalonbank.com)

GREAT LAKES CHEMICAL –  
MONOBROMOTRIFLUOROMETHANE, TECHNICAL  
MATERIAL SAFETY DATA SHEET  
NSN: 6830009659647  
Manufacturer's CAGE: 2E394  
Part No. Indicator: A

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General Information

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Item Name: MONOBROMOTRIFLUOROMETHANE, TECHNICAL  
Company's Name: GREAT LAKES CHEMICAL CORP  
Company's Street: HIGHWAY 52 NW  
Company's P. O. Box: 2200  
Company's City: WEST LAFAYETTE  
Company's State: IN  
Company's Country: US  
Company's Zip Code: 47906  
Company's Emerg Ph #: 501-862-5141  
Company's Info Ph #: 317-497-6100  
Distributor/Vendor # 1: AMERICAN FIRE AND ELECTRIC INDUSTRIES IN  
Distributor/Vendor # 1 Cage: 47229  
Record No. For Safety Entry: 003  
Tot Safety Entries This Stk#: 007  
Status: SE  
Date MSDS Prepared: 01JUN93  
Safety Data Review Date: 03FEB94  
Supply Item Manager: CX  
MSDS Serial Number: BHVWL  
Specification Number: MIL-M-12218  
Hazard Characteristic Code: G3  
Unit Of Issue: LB  
Unit Of Issue Container Qty: 1-CYLINDER  
Type Of Container: CYLINDER  
Net Unit Weight: UNKNOWN

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### Ingredients/Identity Information

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Proprietary: NO  
Ingredient: BROMOTRIFLUOROMETHANE (SARA III)  
Ingredient Sequence Number: 01  
Percent: >99.6%  
NIOSH (RTECS) Number: PA5425000  
CAS Number: 75-63-8  
OSHA PEL: 1000 PPM  
ACGIH TLV: 1000 PPM; 9394  
Other Recommended Limit: NONE SPECIFIED

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### Physical/Chemical Characteristics

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Appearance And Odor: COLORLESS GAS. ODORLESS.  
Boiling Point: -72F,-58C  
Melting Point: -270F,-168C  
Vapor Pressure (MM Hg/70 F): 6200 @ 0 C  
Vapor Density (Air=1): 5.1  
Specific Gravity: 1.57  
Decomposition Temperature: UNKNOWN  
Evaporation Rate And Ref: UNKNOWN  
Solubility In Water: NEGLIGIBLE  
Percent Volatiles By Volume: GAS  
Corrosion Rate (IPY): UNKNOWN

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### Fire and Explosion Hazard Data

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Flash Point: NON-FLAMMABLE  
Extinguishing Media: A FIRE EXTINGUISHING AGENT. USE MEDIA  
SUITABLE FOR FLAMMABLE MATERIALS IN THE AREA.  
Special Fire Fighting Proc: USE WATER SPRAY TO COOL CYLINDERS INVOLVED IN  
FIRES. WEAR SELF-CONTAINED BREATHING APPARATUS.  
Unusual Fire And Expl Hazrds: WHEN EXPOSED TO TEMPERATURES ABOVE 1000F,  
HALON 1310 MAY RELEASE TOXIC FUMES OF HYDROGEN FLUORIDE, HYDROGEN  
BROMIDE,  
CARBONYL FLUORIDE AND CARBONYL BROMIDE.

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### Reactivity Data

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Stability: YES

Cond To Avoid (Stability): PRODUCT MAY DEGRADE CERTAIN POLYMERIC MATERIALS.

Materials To Avoid: ACTIVE METALS, METAL HYDRIDE FIRES, MATERIAL CONTAINING OWN OXYGEN. PRODUCT WILL NOT EXTINGUISH FIRES OF THESE MATERIALS.

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

Hazardous Poly Occur: NO

Conditions To Avoid (Poly): WILL NOT OCCUR.

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### Health Hazard Data

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LD50-LC50 Mixture: ORAL LD50 (RAT) IS UNKNOWN.

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: NO

Route Of Entry - Ingestion: NO

Health Haz Acute And Chronic: HAS ANESTHETIC AND CARDIAC EFFECTS IN HUMANS AT CONCENTRATIONS >10% BY VOLUME, CONCENTRATIONS BELOW

10% ARE CONSIDERED SAFE FOR 0 TO 5 MINUTE 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: THIS COMPOUND IS REPORTED TO BE NON-MUTAGENIC IN THE AMES TEST.

Signs/Symptoms Of Overexp: THE ANESTHETIC EFFECT AT LEVELS BELOW 10% IS SIMILAR TO A FEELING OF MILD INTOXICATION. ANESTHETIC EFFECTS

END RAPIDLY AFTER EXPOSURE IS TERMINATED. PROLONGED EXPOSURE TO CONCENTRATIONS ABOVE 10% (15-20%), MAY LEAD TO UNCONSCIOUSNESS AND POSSIBLY DEATH.

Med Cond Aggravated By Exp: CARDIAC PROBLEMS MAY BE AGGRAVATED BY OVEREXPOSURE.

Emergency/First Aid Proc: EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. SKIN: FLUSH AREA WITH WATER. IF FROSTBITE OCCURS, GET MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING, GIVE MEDICAL ATTENTION. NOT CONSIDERED A LIKELY SOURCE OF EXPOSURE. HOWEVER, IF INGESTED, GET MEDICAL ATTENTION.

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#### Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: EVACUATE AREA. WEAR SELF-CONTAINED BREATHING APPARATUS. VENTILATE ENCLOSED AREAS.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. RETURN CYLINDERS TO GREAT LAKES CHEMICAL CORPORATION, EL DORADO, ARKANSAS.

Precautions-Handling/Storing: PROTECT CYLINDERS FROM DAMAGE. STORAGE TEMP. SHOULD NOT EXCEED 125F. CYLINDERS SHOULD BE SECURED FOR STORAGE WITH VALVE PROTECTION CAP INSTALLED.

Other Precautions: DETERMINE THAT PIPING IS EMPTY BEFORE DOING MAINTENANCE

WORK. PERIODICALLY CHECK CYLINDERS TO ENSURE VALVES ARE NOT LEAKING. DO NOT WEAR CONTACT LENSES.

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#### Control Measures

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Respiratory Protection: WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS AT CONCENTRATIONS GREATER THAN 10,000 PPM AS RECOMMENDED BY NIOSH. CONSULT ANSI STANDARD AND OSHA REGULATIONS CONCERNING THE USE OF RESPIRATORY EQUIPMENT.

Ventilation: MECHANICAL: ALL INDOOR AREAS SHOULD BE WELL VENTILATED. USE

LOCAL EXHAUST FOR MATERIAL TRANSFER AND HANDLING OPERATIONS.

Protective Gloves: LINED NEOPRENE OR LEATHER RECOMMENDED.

Eye Protection: CHEMICAL SAFETY GOGGLES.

Other Protective Equipment: DO NOT WEAR CONTACT LENSES.

Work Hygienic Practices: WASH AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING.

Suppl. Safety & Health Data: AVOID EXPOSURE TO THIS PRODUCT AND DECOMPOSITION PRODUCTS WHEN WEARING CONTACT LENSES; CLOUDING OF LENSES MAY OCCUR. SMOKING IN AREAS WHERE THIS CHEMICAL IS RELEASED CAN CAUSE FORMATION OF TOXIC AND IRRITATING HALOGENS AND HALOGEN ACIDS WHICH COULD BE INHALED WITH THE SMOKE.

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Transportation Data

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Trans Data Review Date: 94034  
DOT PSN Code: CEX  
DOT Proper Shipping Name: BROMOTRIFLUOROMETHANE OR REFRIGERANT GAS, R13B1.  
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: 6-6,6-8  
Additional Trans Data:

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Disposal Data

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Label Data

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Label Required: YES

Technical Review Date: 03FEB94

Label Status: F

Chronic Hazard: YES

Signal Word: DANGER!

Acute Health Hazard-Severe: X

Contact Hazard-Moderate: X

Fire Hazard-None: X

Reactivity Hazard-None: X

Special Hazard Precautions: HAS ANESTHETIC AND CARDIAC EFFECTS

IN HUMANS AT CONCENTRATIONS >10% BY VOLUME, CONCENTRATIONS BELOW 10% ARE CONSIDERED SAFE FOR 0 TO 5 MINUTE EXPOSURES. IS CLASSIFIED AS GROUP 6 (LEAST TOXIC) IN THE UNDERWRITERS LABORATORIES

CLASSIFICATION OF

FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. SKIN:

FLUSH AREA WITH WATER. IF FROSTBITE OCCURS, GET MEDICAL ATTENTION.

INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING, GIVE CPR. IF BREATHING DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. INGESTION: NOT LIKELY

TO OCCUR. HOWEVER, GET MEDICAL ATTENTION.

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y

Label Name: GREAT LAKES CHEMICAL CORP

Label Street: HIGHWAY 52 NW

Label P.O. Box: 2200

Label City: WEST LAFAYETTE

Label State: IN

Label Zip Code: 47906

Label Country: US

Label Emergency Number: 501-862-5141 OR 317-497-6100