

updated 2/10/0

# 12143

HMIS 310



MATHESON  
TRI-GAS

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## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATHESON TRI-GAS, INC.  
959 ROUTE 46 EAST  
PARSIPPANY, NEW JERSEY 07054-0624

EMERGENCY CONTACT:  
CHEMTREC 1-800-424-9300  
INFORMATION CONTACT:  
973-257-1100

SUBSTANCE: BROMOCHLORODIFLUOROMETHANE

#### TRADE NAMES/SYNONYMS:

CHLORODIFLUOROMONOBROMOMETHANE; HALON 1211;  
CHLORODIFLUOROBROMOMETHANE; R 12B1; BCF; CHLOROBROMODIFLUOROMETHANE;  
DIFLUOROCHLOROBROMOMETHANE; FLUGEX 12B1; FLUOROCARBON 1211; FREON 12B1;  
BROMOCHLORODIFLUORMETHANE (HALON 1211); DAIFLON 12B1; F 12B1; UN 1974; CBrClF<sub>2</sub>;  
MAT03440; RTECS PA5270000

CHEMICAL FAMILY: halogenated, aliphatic

CREATION DATE: Jan 24 1989  
REVISION DATE: Mar 19 2003

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: BROMOCHLORODIFLUOROMETHANE  
CAS NUMBER: 353-59-3  
PERCENTAGE: 100.0

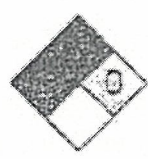
### 3. HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=3 FIRE=1 REACTIVITY=0

#### EMERGENCY OVERVIEW:

COLOR: colorless  
PHYSICAL FORM: liquefied gas  
MAJOR HEALTH HAZARDS: difficulty breathing  
PHYSICAL HAZARDS: Containers may rupture or explode if exposed to heat.

POTENTIAL HEALTH EFFECTS:  
INHALATION:





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**PHYSICAL STATE:** gas  
**COLOR:** colorless  
**PHYSICAL FORM:** liquefied gas  
**ODOR:** Not available  
**MOLECULAR WEIGHT:** 165.38  
**MOLECULAR FORMULA:** C-Br-Cl-F<sub>2</sub>  
**BOILING POINT:** Not available  
**FREEZING POINT:** -256 F (-160 C)  
**VAPOR PRESSURE:** Not available  
**VAPOR DENSITY (air=1):** 5.7  
**SPECIFIC GRAVITY (water=1):** 1.83 (liquid)  
**WATER SOLUBILITY:** slightly soluble  
**PH:** Not applicable  
**VOLATILITY:** Not applicable  
**ODOR THRESHOLD:** Not available  
**EVAPORATION RATE:** Not applicable  
**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not applicable  
**SOLVENT SOLUBILITY:**  
Soluble: chlorinated solvents, alcohols, ketones, esters

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## 10. STABILITY AND REACTIVITY

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**REACTIVITY:** Stable at normal temperatures and pressure.

**CONDITIONS TO AVOID:** Protect from physical damage and heat. Containers may rupture or explode if exposed to heat.

**INCOMPATIBILITIES:** oxidizing materials

**HAZARDOUS DECOMPOSITION:**

Thermal decomposition products: acid halides, oxides of carbon

**POLYMERIZATION:** Will not polymerize.

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## 11. TOXICOLOGICAL INFORMATION

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**BROMOCHLORODIFLUOROMETHANE:**

**TOXICITY DATA:**

20 pph/15 minute(s) inhalation-rat LC50

**ACUTE TOXICITY LEVEL:**

Relatively Non-toxic: inhalation

**MUTAGENIC DATA:** Available.

**REPRODUCTIVE EFFECTS DATA:** Available.



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## 12. ECOLOGICAL INFORMATION

Not available

## 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

## 14. TRANSPORT INFORMATION

U.S. DOT 49 CFR 172.101:

PROPER SHIPPING NAME: Chlorodifluorobromomethane

ID NUMBER: UN1974

HAZARD CLASS OR DIVISION: 2.2

LABELING REQUIREMENTS: 2.2



CANADIAN TRANSPORTATION OF DANGEROUS GOODS:

SHIPPING NAME: Chlorodifluorobromomethane

UN NUMBER: UN1974

CLASS: 2.2

## 15. REGULATORY INFORMATION

### U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30): Not regulated.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40): Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):

ACUTE: Yes

CHRONIC: No

FIRE: No

REACTIVE: No

SUDDEN RELEASE: Yes

SARA TITLE III SECTION 313 (40 CFR 372.65):  
BROMOCHLORODIFLUOROMETHANE



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OSHA PROCESS SAFETY (29CFR1910.119): Not regulated.

STATE REGULATIONS:

California Proposition 65: Not regulated.

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION: A.

NATIONAL INVENTORY STATUS:

U.S. INVENTORY (TSCA): Listed on inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

CANADA INVENTORY (DSL/NDSL): Not determined.

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16. OTHER INFORMATION

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