



MATERIAL SAFETY DATA SHEET

6/5/2018

by Tyco Fire Suppression & Building Products

HALON 1211

Issue Date: 10-14-2011

1. Product and Company Identification

Material name	HALON 1211	FIRE Extinguisher
Version #	01	
Revision date	10-14-2011	HALON
CAS #	353-59-3	
Product use	Fire extinguishing agent	
Manufacturer / Importer / Supplier		
Name	Tyco Fire Protection Products	
Address	One Stanton Street Marinette, WI 54143-2542	
Phone	715-735-7411	
Internet	http://www.ansul.com	
Emergency Phone Number	CHEMTREC 800-424-9300 or 703-527-3887	

2. Hazards Identification

Emergency overview DANGER

Contents under pressure. Heat may cause the containers to explode.

OSHA regulatory status This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Inhalation.

Eyes None known.

Skin None known.

Inhalation Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels.

Ingestion Not a likely route of entry.

Potential environmental effects Ecological injuries are not known or expected under normal use.

3. Composition / Information on Ingredients

Components	CAS #	Percent
HALON 1211	353-59-3	90 - 100

4. First Aid Measures

First aid procedures

Eye contact Flush thoroughly with water for at least 15 minutes. Get medical assistance.

Skin contact Rinse with water.

Inhalation Remove to fresh air.

Ingestion Not likely, due to the form of the product.

General advice If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Flammable properties The product is not flammable. No unusual fire or explosion hazards noted.

Extinguishing media

Suitable extinguishing media This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

Protection of firefighters

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Specific methods

None known.

6. Accidental Release Measures

Personal precautions

None known.

Environmental precautions

No special environmental precautions required.

Methods for containment

Move the cylinder to a safe and open area if the leak is irreparable.

Methods for cleaning up

Not applicable.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling

Handle and open container with care.

Storage

Contents under pressure. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Personal protective equipment

Eye / face protection

Not normally needed.

Skin protection

No special protective equipment required.

Respiratory protection

No personal respiratory protective equipment normally required.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance

Color

Not available.

Odor

Not available.

Physical state

Gas.

pH

3.2 - 3.7 The pH of saturated CO₂ solutions varies from 3.7 at 101 kPa (1 atm) to 3.2 at 2370 kPa (23.4 atm)

Melting point

-256 °F (-159.5 °C)

Freezing point

-256 °F (-159.5 °C)

Boiling point

24.8 °F (-3.7 °C)

Flash point

Not available.

Evaporation rate

Not available.

Flammability limits in air, upper, % by volume

Not available.

Flammability limits in air, lower, % by volume

Not available.

Vapor pressure

275.98 kPa

Vapor density

1.522 at 21°C

Specific gravity

1.512

Relative density

Not available.

Solubility (water)

2 g/l

Partition coefficient (n-octanol/water)

Not available

Auto-ignition temperature

Not available.

Decomposition temperature

Under certain conditions, fluorocarbon vapors may decomp on contact with flames or hot surfaces, creating potential hazard of inhalation of toxic decomp products. When heated to decomp, emits very toxic fumes of hydrogen bromide, hydrogen chloride and hydrogen fluoride.

VOC

Not available.

Molecular weight

165.36 g/mol

Molecular formula C-Br-Cl-F2

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.
Conditions to avoid Excessive heat.
Hazardous decomposition products Hydrogen fluoride.

11. Toxicological Information

Chronic effects Prolonged inhalation may be harmful.
Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

12. Ecological Information

Ecotoxicity This product has no known eco-toxicological effects.
Persistence and degradability Not available.

13. Disposal Considerations

Disposal instructions This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.
Waste from residues / unused products Not applicable.
Contaminated packaging Not applicable.

14. Transport Information

DOT

Basic shipping requirements:

UN number UN1974
Proper shipping name Chlorodifluorobromomethane
Hazard class 2.2
Subsidiary hazard class 2.2

Additional information:

Special provisions T50
Packaging exceptions 306
Packaging non bulk 304
Packaging bulk 314, 315
ERG number 126



DOT

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

HALON 1211 (CAS 353-59-3) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

HALON 1211 (CAS 353-59-3)

Listed.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
 Acute Health - No
 Chronic Health - No
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

Section 302 extremely hazardous substance
 No

Section 311 hazardous chemical
 No

Clean Water Act (CWA)
 Toxic pollutant

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations
 This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

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500 LBS

US - Pennsylvania RTK - Hazardous Substances: Listed substance

HALON 1211 (CAS 353-59-3)

Listed.

16. Other Information

Further information
 HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings
 Health: 0
 Flammability: 0
 Physical hazard: 0

NFPA ratings
 Health: 0
 Flammability: 0
 Instability: 0

Disclaimer
 The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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