1. Product and Company Identification

Material name: HALON 1211
Version #: 01
Revision date: 10-14-2011
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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>HALON 1211</td>
<td>353-59-3</td>
<td>90 - 100</td>
</tr>
</tbody>
</table>

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 decom on contact with flames or hot surfaces, creating potential hazard of inhalation of toxic decom products. When heated to decom, 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

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

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

* 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
HALON 1211 (CAS 353-59-3) 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.

Issue date
10-14-2011