SECTION 1. IDENTIFICATION

Product name: HCFC-22
SDS-Identcode: 130000030957

Manufacturer or supplier's details
Company name of supplier: The Chemours Company FC, LLC
Address: 1007 Market Street
           Wilmington, DE 19801 United States of America (USA)
Telephone: 1-844-773-CHEM (outside the U.S. 1-302-773-1000)
Emergency telephone: Medical emergency: 1-866-595-1473 (outside the U.S. 1-302-773-2000); Transport emergency: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

Recommended use of the chemical and restrictions on use
Recommended use: Transported isolated intermediate used under strictly controlled conditions.
Manufacture of chemical products
Packaging
(Re)packing of substances and mixtures

Restrictions on use: For professional and industrial installation and use only.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Gases under pressure: Liquefied gas
Simple Asphyxiant

GHS label elements
Hazard pictograms:

Signal Word: Warning
Hazard Statements: H280 Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.
Precautionary Statements: Storage:
P410 + P403 Protect from sunlight. Store in a well-ventilated place.
SAFETY DATA SHEET

HCFC-22

Other hazards
Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Misuse or intentional inhalation abuse may cause death without warning symptoms, due to cardiac effects. Rapid evaporation of the product may cause frostbite. Dangerous for the ozone layer.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance / Mixture</th>
<th>Substance name</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance</td>
<td>Chlorodifluoromethane</td>
<td>75-45-6</td>
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Components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
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</thead>
<tbody>
<tr>
<td>Chlorodifluoromethane</td>
<td>75-45-6</td>
<td>&gt;= 99.8 - &lt;= 100</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

General advice
In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

If inhaled
If inhaled, remove to fresh air. Get medical attention if symptoms occur.

In case of skin contact
Thaw frosted parts with lukewarm water. Do not rub affected area. Get medical attention immediately.

In case of eye contact
Get medical attention immediately.

If swallowed
Ingestion is not considered a potential route of exposure.

Most important symptoms and effects, both acute and delayed
May cause cardiac arrhythmia. Other symptoms potentially related to misuse or inhalation abuse are Cardiac sensitization Anaesthetic effects Light-headedness Dizziness confusion Lack of coordination Drowsiness Unconsciousness Contact with liquid or refrigerated gas can cause cold burns and frostbite.

Protection of first-aiders
No special precautions are necessary for first aid responders.
Notes to physician: Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, that may be used in situations of emergency life support should be used with special caution.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Not applicable
Will not burn

Unsuitable extinguishing media: Not applicable
Will not burn

Specific hazards during firefighting: Exposure to combustion products may be a hazard to health. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

Hazardous combustion products: No hazardous combustion products are known

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Fight fire remotely due to the risk of explosion. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Evacuate personnel to safe areas. Avoid skin contact with leaking liquid (danger of frostbite). Ventilate the area. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

Environmental precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.

Methods and materials for containment and cleaning up: Ventilate the area. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE
Technical measures: Use equipment rated for cylinder pressure. Use a backflow preventative device in piping. Close valve after each use and when empty.

Local/Total ventilation: Use only with adequate ventilation.

Advice on safe handling:
- Avoid breathing gas.
- Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment.
- Wear cold insulating gloves/face shield/eye protection.
- Valve protection caps and valve outlet threaded plugs must remain in place unless container is secured with valve outlet piped to use point.
- Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder.
- Prevent backflow into the gas tank.
- Use a pressure reducing regulator when connecting cylinder to lower pressure (<3000 psig) piping or systems.
- Close valve after each use and when empty. Do NOT change or force fit connections.
- Prevent the intrusion of water into the gas tank.
- Never attempt to lift cylinder by its cap.
- Do not drag, slide or roll cylinders.
- Use a suitable hand truck for cylinder movement.
- Keep away from heat and sources of ignition.
- Take precautionary measures against static discharges.
- Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage:
- Cylinders should be stored upright and firmly secured to prevent falling or being knocked over.
- Separate full containers from empty containers.
- Do not store near combustible materials.
- Avoid area where salt or other corrosive materials are present.
- Keep in properly labeled containers.
- Keep in a cool, well-ventilated place.
- Keep away from direct sunlight.
- Store in accordance with the particular national regulations.

Materials to avoid:
- Do not store with the following product types:
  - Self-reactive substances and mixtures
  - Organic peroxides
  - Oxidizing agents
  - Flammable liquids
  - Flammable solids
  - Pyrophoric liquids
  - Pyrophoric solids
  - Self-heating substances and mixtures
  - Substances and mixtures which in contact with water emit flammable gases
  - Explosives
  - Acutely toxic substances and mixtures
  - Substances and mixtures with chronic toxicity
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
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<tbody>
<tr>
<td>Chlorodifluoromethane</td>
<td>75-45-6</td>
<td>TWA</td>
<td>1,000 ppm</td>
<td>ACGIH</td>
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<tr>
<td></td>
<td></td>
<td>ST</td>
<td>1,250 ppm 4.375 mg/m³</td>
<td>NIOSH REL</td>
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<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 3,500 mg/m³</td>
<td>NIOSH REL</td>
</tr>
</tbody>
</table>

Engineering measures: Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection Material: Heat resistant gloves

Remarks: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the product. Change gloves often!

Eye protection: Wear the following personal protective equipment: Chemical resistant goggles must be worn. Face-shield
Skin and body protection: Skin should be washed after contact.

Protective measures: Wear cold insulating gloves/face shield/eye protection.

Hygiene measures: If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquefied gas

Color: colorless

Odor: odorless, slight, sweet

Odor Threshold: No data available

pH: No data available

Melting point/freezing point: -256 °F / -160 °C

Initial boiling point and boiling range: -41.4 °F / -40.8 °C (1,013 hPa)

Flash point: Not applicable

Evaporation rate: > 1 (CCL4=1.0)

Flammability (solid, gas): Will not burn

Self-ignition: The substance or mixture is not classified as pyrophoric.


Lower explosion limit / Lower flammability limit: Lower flammability limit Method: ASTM E681 None.

Vapor pressure: 9,135 hPa (68 °F / 20 °C)

Relative vapor density: 3

Relative density: 1.19 (77 °F / 25 °C)
Density: 1.191 g/cm³ (77 °F / 25 °C) (as liquid)

Solubility(ies):
Water solubility: 2.6 g/l (77 °F / 25 °C)

Partition coefficient: n-octanol/water: log Pow: 1.13 (77 °F / 25 °C)

Autoignition temperature: 1170 - 1175 °F / 632 - 635 °C

Decomposition temperature: 1170 °F / 632 °C

Viscosity:
Viscosity, dynamic: 0.22 mPa.s (50 °F / 10 °C)
Viscosity, kinematic: Not applicable

Explosive properties: Not explosive

Oxidizing properties: The substance or mixture is not classified as oxidizing.

Particle size: Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not classified as a reactivity hazard.

Chemical stability: Stable if used as directed. Follow precautionary advice and avoid incompatible materials and conditions.

Possibility of hazardous reactions:
Can react with strong oxidizing agents.

Conditions to avoid:
This substance is not flammable in air at temperatures up to 100 °C (212 °F) at atmospheric pressure. However, mixtures of this substance with high concentrations of air at elevated pressure and/or temperature can become combustible in the presence of an ignition source. This substance can also become combustible in an oxygen enriched environment (oxygen concentrations greater than that in air). Whether a mixture containing this substance and air, or this substance in an oxygen enriched atmosphere become combustible depends on the inter-relationship of 1) the temperature 2) the pressure, and 3) the proportion of oxygen in the mixture. In general, this substance should not be allowed to exist with air above atmospheric pressure or at high temperatures; or in an oxygen enriched environment. For example this substance should NOT be mixed with air under pressure for leak testing or other purposes. Heat, flames and sparks.
Incompatible materials: Oxidizing agents
Hazardous decomposition products: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation
Skin contact
Eye contact

Acute toxicity
Not classified based on available information.

Components:
Chlorodifluoromethane:
Acute inhalation toxicity: LC50 (Mouse): > 150000 ppm
Exposure time: 4 h
Test atmosphere: gas
Method: Expert judgment

No observed adverse effect concentration (Dog): 25000 ppm
Test atmosphere: gas

Lowest observed adverse effect concentration (Dog): 50000 ppm
Test atmosphere: gas

Cardiac sensitisation threshold limit (Dog): 175,000 mg/m³
Test atmosphere: gas

Skin corrosion/irritation
Not classified based on available information.

Serious eye damage/eye irritation
Not classified based on available information.

Respiratory or skin sensitization
Skin sensitization
Not classified based on available information.

Respiratory sensitization
Not classified based on available information.

Germ cell mutagenicity
Not classified based on available information.

Components:
Chlorodifluoromethane:
Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: positive
Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo  
: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: inhalation (gas)  
Method: OECD Test Guideline 474  
Result: negative

Germ cell mutagenicity - Assessment  
: Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity  
Not classified based on available information.

Components:

Chlorodifluoromethane:  
Species: Mouse  
Application Route: inhalation (gas)  
Exposure time: 581 days  
Result: negative  
Remarks: The mechanism or mode of action is not relevant in humans.

Carcinogenicity - Assessment  
: Weight of evidence does not support classification as a carcinogen

IARC  
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA  
No component of this product present at levels greater than or equal to 0.1% is on OSHA’s list of regulated carcinogens.

NTP  
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity  
Not classified based on available information.

Components:

Chlorodifluoromethane:  
Effects on fertility  
Species: Mouse  
Application Route: Inhalation  
Result: negative

Effects on fetal development  
: Test Type: Prenatal development toxicity study (teratogenicity)  
Species: Rat  
Application Route: Inhalation  
Method: OECD Test Guideline 414  
Result: negative
Reproductive toxicity - Assessment: Weight of evidence does not support classification for reproductive toxicity

**STOT-single exposure**
Not classified based on available information.

**Components:**

**Chlorodifluoromethane:**
Routes of exposure: inhalation (gas)
Assessment: No significant health effects observed in animals at concentrations of 20000 ppmV/4h or less

**STOT-repeated exposure**
Not classified based on available information.

**Components:**

**Chlorodifluoromethane:**
Routes of exposure: inhalation (gas)
Assessment: No significant health effects observed in animals at concentrations of 250 ppmV/6h/d or less.

**Repeated dose toxicity**

**Components:**

**Chlorodifluoromethane:**
Species: Mouse, male and female
NOAEL: 10000 ppm
LOAEL: 50000 ppm
Application Route: inhalation (gas)
Exposure time: 581 d

**Aspiration toxicity**
Not classified based on available information.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

**Chlorodifluoromethane:**
Toxicity to fish: LC50 (Danio rerio (zebra fish)): 777 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 433 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants:
EC50 (algae): 377.6 mg/l
Exposure time: 72 h
Method: ECOSAR (Ecological Structure Activity Relationships)

Persistence and degradability

Components:
Chlorodifluoromethane:
Biodegradability: Result: Not readily biodegradable.
Method: OECD Test Guideline 301D

Bioaccumulative potential

Components:
Chlorodifluoromethane:
Partition coefficient: n-octanol/water:
log Pow: 1.13 (77 °F / 25 °C)

Mobility in soil
No data available

Other adverse effects

Components:
Chlorodifluoromethane:
Ozone-Depletion Potential:
0.055
Where a range of ODPs is indicated, the highest value in that range shall be used for the purposes of the Protocol. The ODPs listed as a single value have been determined from calculations based on laboratory measurements. Those listed as a range are based on estimates and are less certain. The range pertains to an isomeric group. The upper value is the estimate of the ODP of the isomer with the highest ODP, and the lower value is the estimate of the ODP of the isomer with the lowest ODP.
Regulation: UNEP - Handbook for the Montreal Protocol on Substances that Deplete the Ozone Layer (Update: 2016-11-23)
Group: Annex C - Group I: HCFCs (consumption and production)
0.055
Includes all isomers of the substance, regardless of whether the isomer is explicitly listed on its own.
Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class II Substances (Update: 2014-10-28)
SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
Empty pressure vessels should be returned to the supplier.
If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

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<td>Packing instruction (passenger aircraft)</td>
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</tbody>
</table>

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

<table>
<thead>
<tr>
<th>49 CFR</th>
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</table>
Marine pollutant : no

Special precautions for user
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Gases under pressure
Simple Asphyxiant

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Chlorodifluoromethane 75-45-6 >= 99.8 - <= 100 %

US State Regulations

Pennsylvania Right To Know
Chlorodifluoromethane 75-45-6

California List of Hazardous Substances
Chlorodifluoromethane 75-45-6

California Permissible Exposure Limits for Chemical Contaminants
Chlorodifluoromethane 75-45-6

International Regulations
Montreal Protocol : Chlorodifluoromethane

SECTION 16. OTHER INFORMATION

Further information
NFPA 704:

HMIS® IV:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits
ACGIH / TWA : 8-hour, time-weighted average
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of

Revision Date: 10/10/2020

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user’s end product, if applicable.