

SECTION 1: Identification

1.1. Product identifier

Product form : Substance
 Substance name : Chlorine Trifluoride (Compressed)
 CAS-No. : 7790-91-2
 Product code : CA-1001-05302
 Formula : ClF₃
 Synonyms : Chlorine fluoride / Chlorotrifluoride

1.2. Recommended use and restrictions on use

Recommended uses and restrictions : Various

1.3. Supplier

Air Liquide Canada Inc.
 1250, René Lévesque West Blvd. Suite 1700
 H3B 5E6 Montreal, QC - Canada
 T 1-800-817-7697
www.airliquide.ca

1.4. Emergency telephone number

Emergency number : 514-878-1667

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS-CA)

Oxidising Gases, Category 1	H270
Gases under pressure : Liquefied gas	H280
Acute toxicity (inhalation:gas) Category 2	H330
Skin corrosion/irritation, Category 1A	H314
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA) :



Signal word (GHS-CA) :

Danger

Hazard statements (GHS-CA) :

H270 - May cause or intensify fire; oxidizer
 H280 - Contains gas under pressure; may explode if heated
 H335 - May cause respiratory irritation
 H318 - Causes serious eye damage
 H330 - Fatal if inhaled
 H314 - Causes severe skin burns and eye damage
 H400 - Very toxic to aquatic life
 CGA-HG11 - Symptoms may be delayed
 CGA-HG22 - Corrosive to the respiratory tract

Precautionary statements (GHS-CA) :

P271+P403 - Use and store only outdoors or in a well-ventilated place
 P280+P284 - Wear protective gloves/protective clothing/eye protection/respiratory protection and/or face protection

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P370+P376 - In case of fire: Stop leak if safe to do so
 P363 - Wash contaminated clothing before reuse
 P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.
 P403 - Store in a well-ventilated place
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed
 P391 - Collect spillage
 P410+P403 - Protect from sunlight. Store in a well-ventilated place
 P405 - Store locked up
 P220 - Keep away from clothing and other combustible materials
 P260 - Do not breathe dust/fume/gas/mist/vapours/spray
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
 P262 - Do not get in eyes, on skin, or on clothing
 P244 - Keep valves and fittings free from oil and grease
 P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P310 - Immediately call a POISON CENTER or doctor
 P312 - Call a POISON CENTER or doctor if you feel unwell
 P321 - Specific treatment (see supplemental first aid instruction on this label)
 P320 - Specific treatment is urgent (see supplemental first aid instruction on this label)
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P264 - Wash hands, forearms and face thoroughly after handling
 P273 - Avoid release to the environment
 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
 P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
 CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52 °C/125 °F
 CGA-PG05 - Use a back flow preventive device in the piping
 CGA-PG06 - Close valve after each use and when empty
 CGA-PG10 - Use only with equipment rated for cylinder pressure
 CGA-PG12 - Do not open valve until connected to equipment prepared for use.
 CGA-PG18 - When returning cylinder, install leak tight valve outlet cap or plug
 CGA-PG20 - Use only with equipment of compatible materials of construction and rated for cylinder pressure
 CGA-PG21 - Open valve slowly
 CGA-PG22 - Use only with equipment cleaned for oxygen service

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Chemical name/Synonyms	Product identifier	%	Classification (GHS-CA)
Chlorine Trifluoride (Compressed) (Main constituent)	Chlorine fluoride / Chlorotrifluoride	(CAS-No.) 7790-91-2	100	Ox. Gas 1, H270 Press. Gas (Liq.), H280 Acute Tox. 2 (Inhalation:gas), H330 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.
- First-aid measures after skin contact : In case of skin contact, wearing rubber gloves rub 2.5% calcium gluconate gel continuously into the affected area for 1.5 hours or until further medical care is available.
- First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.
- First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

4.2. Most important symptoms and effects (acute and delayed)

- Most important symptoms and effects, both acute and delayed : May cause severe chemical burns to skin and cornea. Suitable first-aid treatment should be immediately available. Seek medical advice before using product. Refer to section 11.

4.3. Immediate medical attention and special treatment, if necessary

- Other medical advice or treatment : Treat with corticosteroid spray as soon as possible after inhalation. Obtain medical assistance.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

- Suitable extinguishing media : Water spray or fog. Dry powder. Carbon dioxide.

5.2. Unsuitable extinguishing media

- Unsuitable extinguishing media : Foam. Do not use water jet to extinguish.

5.3. Specific hazards arising from the hazardous product

- Hazardous combustion products : None that are more hazardous than the product itself.

5.4. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Exposure to fire may cause containers to rupture/explode.
- Specific methods : Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems. If possible, stop flow of product. Use water spray or fog to knock down fire fumes if possible.
- Special protective equipment for fire fighters : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. Standard EN 943-2: Protective clothing against liquid and gaseous chemicals, aerosols and solid particles. Gas-tight chemical protective suits for emergency teams. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Try to stop release. Evacuate area. Monitor concentration of released product. Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. Eliminate ignition sources. Ensure adequate air ventilation. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.
- Personal Precautions, Protective Equipment and Emergency Procedures : EVACUATE ALL PERSONNEL FROM AFFECTED AREA. Use appropriate protective equipment. If leak is on user's equipment, be certain to purge piping before attempting repairs. If leak is on a container or container valve contact the closest Air Liquide Canada location.

6.2. Methods and materials for containment and cleaning up

- Methods and material for containment and cleaning up : Ventilate area.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe use of the product

: The product must be handled in accordance with good industrial hygiene and safety procedures. Only experienced and properly instructed persons should handle gases under pressure. Consult supplier for specific recommendations. Consider pressure relief device(s) in gas installations. Ensure the complete gas system was (or is regularly) checked for leaks before use. Do not smoke while handling product. Avoid exposure, obtain special instructions before use. Use no oil or grease. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Installation of a cross purge assembly between the cylinder and the regulator is recommended. Passivate all equipment and pipework before introducing gas. Contact supplier for passivation procedure. Purge system with dry inert gas (e.g. helium or nitrogen) before gas is introduced and when system is placed out of service. Avoid suck back of water, acid and alkalis. Avoid contact with pure copper, mercury, silver and brass with greater than 65% copper.

Safe handling of the gas receptacle

: Refer to supplier's container handling instructions. Do not allow backfeed into the container. Protect cylinders from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. If user experiences any difficulty operating cylinder valve discontinue use and contact supplier. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Keep container valve outlets clean and free from contaminants particularly oil and water. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Close container valve after each use and when empty, even if still connected to equipment. Never attempt to transfer gases from one cylinder/container to another. Never use direct flame or electrical heating devices to raise the pressure of a container. Do not remove or deface labels provided by the supplier for the identification of the cylinder contents. Open valve slowly to avoid pressure shock.

7.2. Conditions for safe storage, including any incompatibilities

Conditions for safe storage, including any incompatibilities

: Observe all regulations and local requirements regarding storage of containers. Containers should not be stored in conditions likely to encourage corrosion. Container valve guards or caps should be in place. Containers should be stored in the vertical position and properly secured to prevent them from falling over. Stored containers should be periodically checked for general condition and leakage. Keep container below 50°C in a well ventilated place. Segregate from flammable gases and other flammable materials in store. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chlorine Trifluoride (Compressed) (7790-91-2)		
USA - ACGIH	ACGIH Ceiling (ppm)	0.1 ppm
USA - OSHA	OSHA PEL (Ceiling) (mg/m ³)	0.4 mg/m ³
USA - OSHA	OSHA PEL (Ceiling) (ppm)	0.1 ppm
Canada (Quebec)	PLAFOND (mg/m ³)	0.38 mg/m ³
Canada (Quebec)	PLAFOND (ppm)	0.1 ppm
Alberta	OEL Ceiling (mg/m ³)	0.4 mg/m ³
Alberta	OEL Ceiling (ppm)	0.1 ppm
British Columbia	OEL Ceiling (ppm)	0.1 ppm
Manitoba	OEL Ceiling (ppm)	0.1 ppm
New Brunswick	OEL Ceiling (mg/m ³)	0.38 mg/m ³
New Brunswick	OEL Ceiling (ppm)	0.1 ppm
New Foundland & Labrador	OEL Ceiling (ppm)	0.1 ppm
Nova Scotia	OEL Ceiling (ppm)	0.1 ppm

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Nunavut	OEL Ceiling (ppm)	0.1 ppm
Northwest Territories	OEL Ceiling (ppm)	0.1 ppm
Ontario	OEL Ceiling (ppm)	0.1 ppm
Prince Edward Island	OEL Ceiling (ppm)	0.1 ppm
Saskatchewan	OEL Ceiling (ppm)	0.1 ppm
Yukon	OEL Ceiling (mg/m ³)	0.4 mg/m ³
Yukon	OEL Ceiling (ppm)	0.1 ppm

8.2. Appropriate engineering controls

- Appropriate engineering controls : Product to be handled in a closed system and under strictly controlled conditions. Provide adequate general and local exhaust ventilation. Preferably use permanent leak-tight installations (e.g. welded pipes). Systems under pressure should be regularly checked for leakages. Ensure exposure is below occupational exposure limits (where available). Alarm detectors should be used when toxic gases may be released. Consider the use of a work permit system e.g. for maintenance activities.
- Environmental exposure controls : Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing. Safety shoes.

Hand protection:

Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risk. Wear chemically resistant protective gloves. Standard EN 374 - Protective gloves against chemicals. Consult glove manufacturer's product information on material suitability and material thickness. The breakthrough time of the selected gloves must be greater than the intended use period.

Eye protection:

Wear safety glasses with side shields. Wear goggles and a face shield when transfilling or breaking transfer connections. Standard EN 166 - Personal eye-protection - specifications. Provide readily accessible eye wash stations and safety showers.

Respiratory protection:

Gas filters do not protect against oxygen deficiency. Keep self contained breathing apparatus readily available for emergency use. Gas filters may be used if all surrounding conditions e.g. type and concentration of the contaminant(s) and duration of use are known. Use gas filters with full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers. Recommended: Filter B (grey). Consult respiratory device supplier's product information for the selection of the appropriate device. Standard EN 14387 - Gas filter(s), combined filter(s) and full face mask - EN 136. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.



Thermal hazard protection:

None necessary.

Other information:

Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear. Keep suitable chemically resistant protective clothing readily available for emergency use. Standard EN943-1 - Full protective suits against liquid, solid and gaseous chemicals.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Gas
Appearance	: No data available
Colour	: Colourless. Gives off white fumes in moist air.
Odour	: Pungent.
Odour threshold	: No data available
pH	: If dissolved in water pH-value will be affected.
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: Not applicable for gases and gas mixtures.
Molecular mass	: 92.5 g/mol
Melting point	: -76.3 °C
Freezing point	: -76.3 °C
Boiling point	: 12 °C
Flash point	: Not applicable for gases and gas mixtures.
Critical temperature	: 186.2 °C
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 150 kPa
Vapour pressure at 50 °C	: No data available
Relative density	: 1.9
Relative gas density	: 2.8
Solubility	: Water: Completely soluble.
Log Pow	: Not applicable for inorganic gases.
Viscosity, kinematic	: Not applicable.
Viscosity, dynamic	: Not applicable.
Explosive properties	: Not applicable.
Oxidising properties	: Oxidiser.
Explosive limits	: Non flammable.
Ci	: 40

9.2. Other information

Gas group	: Press. Gas (Liq.)
Additional information	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	: No reactivity hazard other than the effects described in sub-sections below.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Violently oxidises organic material.
Conditions to avoid	: Avoid moisture in installation systems.
Incompatible materials	: May react violently with alkalis. With water causes rapid corrosion of some metals. Reacts with water to form corrosive acids. May react violently with combustible materials. May react violently with reducing agents. Moisture. For additional information on compatibility refer to ISO 11114.
Hazardous decomposition products	: Under normal conditions of storage and use hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
 Acute toxicity (dermal) : Not classified
 Acute toxicity (inhalation) : Inhalation:gas: Fatal if inhaled.

Chlorine Trifluoride (Compressed) (\f)7790-91-2	
LC50 inhalation rat (ppm)	149.5 ppm/4h
ATE CA (gases)	149.50000000 ppmv/4h

Skin corrosion/irritation : Causes severe skin burns and eye damage.
 pH: If dissolved in water pH-value will be affected.
 Serious eye damage/irritation : Causes serious eye damage.
 pH: If dissolved in water pH-value will be affected.
 Respiratory or skin sensitization : Not classified
 Germ cell mutagenicity : Not classified
 Carcinogenicity : Not classified
 Reproductive toxicity : Not classified
 STOT-single exposure : May cause respiratory irritation.
 STOT-repeated exposure : Not classified
 Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No data available.

12.2. Persistence and degradability

Chlorine Trifluoride (Compressed) (7790-91-2)	
Persistence and degradability	Not applicable for inorganic gases.

12.3. Bioaccumulative potential

Chlorine Trifluoride (Compressed) (7790-91-2)	
Log Pow	Not applicable for inorganic gases.
Bioaccumulative potential	No data available.

12.4. Mobility in soil

Chlorine Trifluoride (Compressed) (7790-91-2)	
Log Pow	Not applicable for inorganic gases.
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.

12.5. Other adverse effects

Other adverse effects : May cause pH changes in aqueous ecological systems.
 Effect on global warming : No known effects from this product.
 Effect on ozone layer : None.

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SECTION 13: Disposal considerations

13.1. Disposal methods

- Waste treatment methods : Must not be discharged to atmosphere. Gas may be scrubbed in alkaline solution under controlled conditions to avoid violent reaction. Ensure that the emission levels from local regulations or operating permits are not exceeded. Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at <http://www.eiga.org> for more guidance on suitable disposal methods.
- Additional information : None.
- List of hazardous wastes : 16 05 04 *: Gases in pressure containers (including halons) containing dangerous substances.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

- UN-No. (TDG) : UN1749
- TDG Primary Hazard Classes : 2.3 - Class 2.3 - Toxic Gas.
- TDG Subsidiary Classes : 5.1;8
- Transport Document Description : UN1749 CHLORINE TRIFLUORIDE, 2.3 (5.1;8)
- Proper Shipping Name : CHLORINE TRIFLUORIDE

- Hazard labels (TDG) : 2.3 - Toxic gases
5.1 - Oxidizing substances
8 - Corrosive substances



- TDG Special Provisions : 23 - (1) A consignor of these dangerous goods must include, except for UN1005, ANHYDROUS AMMONIA, the words "toxic by inhalation" or "toxic — inhalation hazard" or "toxique par inhalation" or "toxicité par inhalation" in the following places, unless the words are already part of the shipping name: (a) on a shipping document, immediately after the description of the dangerous goods; (b) on a small means of containment, next to the shipping name of the dangerous goods; and (c) on a large means of containment, next to the placard for the primary class of the dangerous goods or the placard for the subsidiary class, if any. For example, the notation on a shipping document would be "UN1935, CYANIDE SOLUTION, N.O.S, Class 6.1, PG I, toxic by inhalation". (2) This special provision does not apply to a person who transports these dangerous goods in accordance with an exemption set out in sections 1.15, 1.17 or 1.17.1 of Part 1 (Coming Into Force, Repeal, Interpretation, General Provisions and Special Cases). (3) A consignor of UN1005, ANHYDROUS AMMONIA, must include the words "inhalation hazard" or "dangereux par inhalation": (a) on a shipping document, immediately after the shipping name of the dangerous goods; and (b) on a small means of containment, next to the shipping name of the dangerous goods. When UN1005, ANHYDROUS AMMONIA, is contained in a large means of containment on which is affixed the anhydrous ammonia placard, the words "Anhydrous Ammonia, Inhalation Hazard" or "Ammoniac anhydre, dangereux par inhalation" must be displayed next to the placard in accordance with paragraph 4.18.2(b). SOR/2014-306
- 38 - A person must not handle, offer for transport or transport these dangerous goods in a large means of containment if they are in direct contact with the large means of containment. SOR/2014-306
- ERAP Index : 25
- Explosive Limit and Limited Quantity Index : 0
- Passenger Carrying Ship Index : Forbidden
- Excepted quantities (TDG) : E0

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Passenger Carrying Road Vehicle or Passenger : Forbidden
Carrying Railway Vehicle Index

14.2. Transport information/DOT - USA

Department of Transport

DOT NA no. : UN1749
UN-No.(DOT) : 1749

Transport Document Description : UN1749 Chlorine trifluoride, 2.3 (5.1;8)
Proper Shipping Name (DOT) : Chlorine trifluoride
Contains Statement Field Selection (DOT) :

Class (DOT) : 2.3 - Class 2.3 - Poisonous gas 49 CFR 173.115
Division (DOT) : 2.3
Hazard labels (DOT) : 2.3 - Poison gas
5.1 - Oxidiser
8 - Corrosive



Dangerous for the environment : Yes
Marine pollutant : Yes



DOT Special Provisions (49 CFR 172.102) : 2 - This material is poisonous by inhalation (see 171.8 of this subchapter) in Hazard Zone B (see 173.116(a) or 173.133(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter.
B7 - Safety relief devices are not authorized on multi-unit tank car tanks. Openings for safety relief devices on multi-unit tank car tanks shall be plugged or blank flanged.
B9 - Bottom outlets are not authorized.
B14 - Each bulk packaging, except a tank car or a multi-unit-tank car tank, must be insulated with an insulating material so that the overall thermal conductance at 15.5 C (60 F) is no more than 1.5333 kilojoules per hour per square meter per degree Celsius (0.075 Btu per hour per square foot per degree Fahrenheit) temperature differential. Insulating materials must not promote corrosion to steel when wet.
N86 - UN pressure receptacles made of aluminum alloy are not authorized.

DOT Packaging Exceptions (49 CFR 173.xxx) : None

DOT Packaging Non Bulk (49 CFR 173.xxx) : 304

DOT Packaging Bulk (49 CFR 173.xxx) : 314

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : Forbidden

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : Forbidden

DOT Vessel Stowage Location : D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded.

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DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters",89 - Segregation same as for oxidizers,90 - Stow "separated from" radioactive materials
Emergency Response Guide (ERG) Number	: 124
Special transport precautions	: Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: - Ensure there is adequate ventilation. - Ensure that containers are firmly secured. - Ensure cylinder valve is closed and not leaking. - Ensure valve outlet cap nut or plug (where provided) is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted.
Other information	: No supplementary information available.

14.3. Air and sea transport

IMDG

UN-No. (IMDG)	: 1749
Proper Shipping Name (IMDG)	: CHLORINE TRIFLUORIDE
Transport Document Description (IMDG)	: UN 1749 CHLORINE TRIFLUORIDE, 2.3 (5.1+8)
Class (IMDG)	: 2 - Gases
MFAG-No	: 124
Ship Safety Act	: Gases under pressure/Gases toxic under pressure(Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)
Port Regulation Law	: Hazardous materials/High pressure gas (Article 21, Paragraph 2 of Law, Article 12 rule, notice attached table that defines the type of dangerous goods)

IATA

UN-No. (IATA)	: 1749
Proper Shipping Name (IATA)	: Chlorine trifluoride
Transport Document Description (IATA)	: UN 1749 Chlorine trifluoride, 2.3 (5.1+8)
Class (IATA)	: 2
Civil Aeronautics Law	: Gases under pressure/Gases toxic under pressure(Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)

SECTION 15: Regulatory information

15.1. National regulations

Chlorine Trifluoride (Compressed) (7790-91-2)

Listed on the Canadian NDSL (Non-Domestic Substances List)

15.2. International regulations

Chlorine Trifluoride (Compressed) (7790-91-2)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16: Other information

Date of issue	: 05/26/2017
Training advice	: Users of breathing apparatus must be trained. Ensure operators understand the toxicity hazard.
Other information	: This Safety Data Sheet has been established in accordance with the applicable European Union legislation.



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Full text of H-statements:

H270	May cause or intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H330	Fatal if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life

SDS Canada (GHS)

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