

Safety Data Sheet 1800704 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/17/2015 Version: 1.0

SECTION 1: Identification	
Product form	: Substance
Substance name	: 4-Chlorobenzotrifluoride
CAS No	: 98-56-6
Product code	: 1800-7-04
Formula	: C7H4CIF3
Synonyms	: 1-Chloro-4-(trifluoromethyl)benzene; 4-Chloro-alpha,alpha,alpha-trifluorotoluene
Other means of identification	: MFCD0000627
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the safe	ty data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance o	
Classification (GHS-US)	
	lleraic skin reaction
STOT SE 3H335 - May cause respAquatic Acute 2H401 - Toxic to aquaticAquatic Chronic 2H411 - Toxic to aquatic	
STOT SE 3H335 - May cause respAquatic Acute 2H401 - Toxic to aquaticAquatic Chronic 2H411 - Toxic to aquaticFull text of H-phrases: see section 16	iratory irritation life
STOT SE 3H335 - May cause respAquatic Acute 2H401 - Toxic to aquaticAquatic Chronic 2H411 - Toxic to aquaticFull text of H-phrases: see section 162.2.Label elements	iratory irritation life
STOT SE 3 H335 - May cause resp Aquatic Acute 2 H401 - Toxic to aquatic Aquatic Chronic 2 H411 - Toxic to aquatic Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	iratory irritation life life with long lasting effects
STOT SE 3H335 - May cause respAquatic Acute 2H401 - Toxic to aquaticAquatic Chronic 2H411 - Toxic to aquaticFull text of H-phrases: see section 162.2.Label elementsGHS-US labelingHazard pictograms (GHS-US)	iratory irritation life life with long lasting effects
STOT SE 3H335 - May cause respAquatic Acute 2H401 - Toxic to aquaticAquatic Chronic 2H411 - Toxic to aquaticFull text of H-phrases: see section 162.2.Label elementsGHS-US labeling	iratory irritation life life with long lasting effects : iff w
STOT SE 3H335 - May cause respAquatic Acute 2H401 - Toxic to aquaticAquatic Chronic 2H411 - Toxic to aquaticFull text of H-phrases: see section 162.2.Label elementsGHS-US labelingHazard pictograms (GHS-US)Signal word (GHS-US)	iratory irritation life life with long lasting effects : CHS02 CHS07 CHS07 CHS09 : Warning : H226 - Flammable liquid and vapor H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation

	P272 - Contaminated work clothing P273 - Avoid release to the environr		it of the workplace	
	P280 - Wear protective gloves/prote P302+P352 - If on skin: Wash with p P303+P361+P353 - If on skin (or ha skin with water/shower P304+P340 - If inhaled: Remove pe P305+P351+P338 - If in eyes: Rinse lenses, if present and easy to do. Co P312 - Call a POISON CENTER or P321 - Specific treatment (see supp P332+P313 - If skin irritation occurs P333+P313 - If skin irritation or rash	ective clothing/eye protective clothing/eye protection of soap and water in: Take off immediate room to fresh air and kee cautiously with water continue rinsing doctor/physician if you lemental first aid instruutient concurs: Get medical advice/at a occurs: Get medical a	er ly all contaminated clothing. Rinse eep comfortable for breathing for several minutes. Remove contact feel unwell ctions on this label) tention dvice/attention	
	P362+P364 - Take off contaminated P363 - Wash contaminated clothing P370+P378 - In case of fire: Use dry P391 - Collect spillage P403+P233 - Store in a well-ventilat P403+P235 - Store in a well-ventilat P405 - Store locked up	P403+P233 - Store in a well-ventilated place. Keep container tightly closed P403+P235 - Store in a well-ventilated place. Keep cool		
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS L	JS)			
Not applicable				
	ation on ingredients			
SECTION 3: Composition/inform	nation on ingredients			
SECTION 3: Composition/inform 3.1. Substance	ation on ingredients : Mono-constituent			
SECTION 3: Composition/inform 3.1. Substance		%	Classification (GHS-US)	
Substance type	: Mono-constituent	% <= 100	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401	
SECTION 3: Composition/inform 3.1. Substance Substance type Name 4-Chlorobenzotrifluoride (Main constituent)	: Mono-constituent Product identifier		Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335	
SECTION 3: Composition/inform 3.1. Substance Substance type Name 4-Chlorobenzotrifluoride (Main constituent) Full text of H-phrases: see section 16	: Mono-constituent Product identifier		Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401	
SECTION 3: Composition/inform 3.1. Substance Substance type Name 4-Chlorobenzotrifluoride (Main constituent) Full text of H-phrases: see section 16 3.2. Mixture	: Mono-constituent Product identifier		Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401	
SECTION 3: Composition/inform 3.1. Substance Substance type Name 4-Chlorobenzotrifluoride (Main constituent) Full text of H-phrases: see section 16 3.2. Mixture Not applicable	: Mono-constituent Product identifier		Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401	
SECTION 3: Composition/inform 3.1. Substance Substance type Name 4-Chlorobenzotrifluoride (Main constituent) Full text of H-phrases: see section 16 3.2. Mixture Not applicable SECTION 4: First aid measures	: Mono-constituent Product identifier (CAS No) 98-56-6		Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401	
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SECTION 3: Composition/inform 3.1. Substance Substance type A-Chlorobenzotrifluoride (Main constituent) Full text of H-phrases: see section 16 3.2. Mixture Not applicable SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	Mono-constituent Product identifier (CAS No) 98-56-6 (CAS No) 98-56-6 In case of accident or if you feel unw where possible). Move the affected Remove person to fresh air and kee respiration. Get medical advice/atter	<pre>vell, seek medical advic personnel away from th p comfortable for breat ntion. . Get medical advice/at vith water for at least 15</pre>	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411	
SECTION 3: Composition/inform 3.1. Substance Substance type Name 4-Chlorobenzotrifluoride (Main constituent) Full text of H-phrases: see section 16 3.2. Mixture Not applicable SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact	Mono-constituent Product identifier (CAS No) 98-56-6 (CAS No) 98-56-6 In case of accident or if you feel unw where possible). Move the affected p Remove person to fresh air and kee respiration. Get medical advice/atter Wash with plenty of soap and water. Immediately flush eyes thoroughly w	vell, seek medical advic personnel away from th p comfortable for breat ntion Get medical advice/at vith water for at least 15 nsing. Get medical advi e anything by mouth to	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 ce immediately (show the label ne contaminated area. hing. If not breathing, give artificial tention. 5 minutes. Remove contact lenses, if ce/attention.	
SECTION 3: Composition/inform 3.1. Substance Substance type Name 4-Chlorobenzotrifluoride (Main constituent) Full text of H-phrases: see section 16 3.2. Mixture Not applicable SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	Mono-constituent Product identifier (CAS No) 98-56-6 (CAS No) 98-56-6 In case of accident or if you feel unw where possible). Move the affected p Remove person to fresh air and kee respiration. Get medical advice/atter Wash with plenty of soap and water. Immediately flush eyes thoroughly w present and easy to do. Continue rir Do NOT induce vomiting. Never give	vell, seek medical advic personnel away from th p comfortable for breat ntion Get medical advice/at vith water for at least 15 nsing. Get medical advi e anything by mouth to	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 ce immediately (show the label ne contaminated area. hing. If not breathing, give artificial tention. 5 minutes. Remove contact lenses, if ce/attention.	

SECTION	ON 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.

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5.2.	2. Special hazards arising from the substance or mixture	
Fire ha	azard	: Thermal decomposition generates: Carbon oxides. Hydrogen chloride. Hydrogen fluoride.
Explos	ion hazard	: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers. May form flammable/explosive vapor-air mixture.
5.3.	Advice for firefighters	
Firefig	hting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protec	tion during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 6: Accidental rela	ase measures	
SECTION 6: Accidental release measures		
6.1. Personal precautions, pr	Personal precautions, protective equipment and emergency procedures	
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.	
6.1.1. For non-emergency pers	onnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.	
6.1.2. For emergency responde	ers	
Protective equipment	 Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 	
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.	
6.2. Environmental precautio	ns	
Avoid release to the environment. No	otify authorities if product enters sewers or public waters.	
6.3. Methods and material for	r containment and cleaning up	
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.	
Methods for cleaning up	• Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use	

Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use
	explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel
	spills into appropriate container for disposal. Ventilate area.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	ng any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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8.2. Exposure controls
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Appropriate engineering controls

: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and		
Physical state	: Liquid	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: -36 °C	
Freezing point	: No data available	
Boiling point	: 138 - 139 °C	
Flash point	: 47 °C	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Vapor pressure	: 10.47 hPa (at 25 °C)	
Relative density	: No data available	
Relative vapor density at 20 °C	: No data available	
Specific gravity / density	: 1.338 g/ml (@ 25 °C)	
Molecular mass	: 180.56 g/mol	
Solubility	: Water: < 100 mg/l (at 23 °C)	
Log Pow	: 3.7 (at 25 °C)	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
9.2. Other information		
Refractive index	: 1.4444 (@ 25 °C)	

SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
No addit	ional information available
10.2.	Chemical stability
The proc	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addit	ional information available
10.4.	Conditions to avoid
Keep aw	vay from heat, sparks and flame.
10.5.	Incompatible materials
Strong b	bases. Strong oxidizing agents.
10.6.	Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

4-Chlorobenzotrifluoride (98-56-6)	
LD50 oral rat	13 g/kg
LD50 dermal rabbit	> 2 ml/kg
LC50 inhalation rat (mg/l)	33 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1.	Toxicity		
4-Chlo	4-Chlorobenzotrifluoride (98-56-6)		
EC50 [Daphnia 1	3.68 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
12.2.	Persistence and degradability		
No addit	ional information available		
12.3.	Bioaccumulative potential		
4-Chlo	4-Chlorobenzotrifluoride (98-56-6)		
Log Po	W	3.7 (at 25 °C)	
12.4.	Mobility in soil		
No additional information available			
12.5.	Other adverse effects		
	ional information available		

SECTION 13: Disposal consideratio	ns
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.
SECTION 14: Transport information	

: UN2234 Chlorobenzotrifluorides, 3, III
: UN2234
: UN2234 : Chlorobenzotrifluorides

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Hazard labels (DOT)	: 3 - Flammable liquid
Packing group (DOT) Dangerous for the environment	: III - Minor Danger : Yes
Aarine pollutant	: Yes
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
OOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Special Provisions (49 CFR 172.102)	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
rDG	
No additional information available	
ransport by sea	
JN-No. (IMDG)	
Proper Shipping Name (IMDG)	: CHLOROBENZOTRIFLUORIDES
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
JN-No. (IATA)	: 2234
Proper Shipping Name (IATA)	: Chlorobenzotrifluorides
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	
15.1. US Federal regulations	
4-Chlorobenzotrifluoride (98-56-6)	neese Central Act) inventory
Listed on the United States TSCA (Toxic Substa EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule
	under TSCA.

under TSCA.

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All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

4-Chlorobenzotrifluoride (98-56-6)

Listed on the Canadian DSL (Domestic Sustances List)

EU-Regulations

No additional information available

National regulations

4-Chlorobenzotrifluoride (98-56-6)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases:

Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

NFPA health hazard

: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard

NFPA reactivity

- : 2 Must be moderately heated or exposed to relatively high temperature before ignition can occur.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.

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HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.