

Safety Data Sheet 18007X8 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/17/2017 Version: 1.0

Product form : Substance earne : 2-Chloro-6-fluorobenzotrifluoride : CAS No : 103889-37-8 Product code : 103893-78-8 Product code : 1800-7-X8 Formula : 1-Chloro-3-fluoro-2-(trifluoromethyl)benzene; 2-Chloro-alpha, alpha, 6-tetrafluorotolur Other means of identification : MFCD03412198 1.2. Relevant identified uses of the substance 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 safety data sheet SynOuest Laboratories, Inc. P.O. 600: 309 Machachus, FL 22015 - United States of America 1.4. Emergency leptone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(S) identification 2.1. Chasification of the substance or mixture Classification (GHS-US) Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)				
Product form : Substance name : 2.Chiono-6-fluorobenzotrifluoride Substance name : 2.Chiono-6-fluorobenzotrifluoride CAS No : 103898-37-8 Product code : 1800-7.x8 Product	SECTION 1: Identification			
Substance name : 2. 4-Chino-A-fluorobenzotrilluoride CAS No : 103889-37.6 Product code : 1030-7.43 Formula : C7H3CJF4 Synonyms : 1-Chino-3-fluorobenzotrilluoride : 2. Synonyms : 1-Chino-3-fluorobenzotrilluoride : 2. Chinor - alpha.alpha.alpha.6-tetrafluorotoluc Chinor maans of identification : MFCDC03412198 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture is ubstances. Sectific research and development 1.3. Details of the subplier of the safety data sheet SynOurset Laboratory chemicals is induction in the safety data sheet SynOurset Laboratories. Inc. P.O. Box 309 Alachua, FL 32815 - United States of America 1.3. Details of the subplier of the safety data sheet SynOurset Laboratory chemicals is induction in the safety data sheet 1.4. Emergency telephone number 1.4. Emergency telephone number 1.5. Details of the substance or mixture 1.6. Chemical Sectification 1.7. Classification of the substance or mixture 1.8. Chemical Sectification 1.9. Sectific research 1.9. Classification of the substance or mixture 1.9. Classification 1.9. Classification 1.9. Classification 1.9. Classes skin irritation 1.9. Classes Skin irritation 1.9. Classification 1.9. Classes Skin irritation 1.9. Classes Skin	1.1. Identification			
CAS No : 103889-37-8 Product code : 1000-7-X8 Product code : 1000-7-X8 Formula : C7H3CIF4 Synonyms : 1-Chloro-3-fluoro-2-(trifluoromethyl)benzene: 2-Chloro-alpha,alpha.alpha.6-tetrafluorotolux Other means of identification : MFCD03412198 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.3. Details of the supplier of the safety data sheet SynOurse Laboratories, Inc. P.O. Box 200 Alachuar, FL 32615 - United States of America T (288) 442-708 + C389 Alachuar, FL 32615 - United States of America T (288) 442-708 + C389 Alachuar, FL 32615 - United States of America T (288) 442-708 + C389 Alachuar, FL 32615 - United States of America T (288) 442-708 + C389 Alachuar, FL 32615 - United States of America T (288) 442-708 + C389 Alachuar, FL 32615 - United States of America T (288) 442-708 + C389 Alachuar, FL 32615 - United States of America T (288) 442-708 + C389 Alachuar, FL 32615 - United States of America T (288) 442-708 + C389 Alachuar, FL 32615 - United States of America T (288) 442-708 + C389 Alachuar, FL 32615 - United States of America T (288) 442-708 + C389 Alachuar, FL 32615 - United States of America T (288) 442-708 + C389 SECTION 2: Hazard(S) Identification 2:1. Classification of the substance or mixture Classification of the Substance or mixture Classifi	Product form	: Substance		
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Synonyms : 1-Chloro-3-fluoro-2-(trifluoromethyl)benzene; 2-Chloro-alpha,alpha,alpha,de-tetrafluorotoku Chler means of identification : MFCD03412188 12. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : Laboratory chemicals Scientific research and development 13. Details of the supplier of the safety data sheet SynOutest Laboratories, Inc. P.O. 60x 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 Info 82 synOutest Laboratories, Inc. P.O. 60x 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 Info 82 synOutest Laboratories, Inc. P.O. 60x 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 Info 82 synOutest Laboratories, Inc. P.O. 60x 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 Info 82 synOutest Laboratories, Inc. P.O. Edustrication of the substance or mixture Classification (GHS-US) FECTION 2: Hazard (5) Identification Stor FE 3 - Hayas as encours eye intration STOT E 3 - H315 - Causes skin initiation Full text of H-phrases: see section 16 2.2. Label elements GHS-US Signal word (GHS-US) Film LL4, H27 - Combustible liquid Hazard pictograms (GHS-US) Film ZL4, Signal word (GHS-US) Film ZL4, Film Signal word (GHS-US) Film ZL4, Film Signal word (GHS-US) Film ZL4, Signal word (GHS-US) Film ZL4, Film Signal word (GHS-US) Film ZL4, Signal word (GHS-US) Film ZL4, Film Signal word (GHS-US) Fil	Product code	: 1800-7-X8		
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SynCluest Laboratories, Inc. P.O. Box 309 Akachua, FL 32615 - United States of America T (386) 462-7097 T (386) 462-7097 F. (386) 462-7097 Info@ syncluestabs.com - www.syncluestabs.com Info@ syncluestabs.com - www.syncluestabs.com 1.4. Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(S) Identification Identification (GHS-US) Fiam. Liq, 4 H227 - Combustible liquid Skin Int, 2 H316 - Causes serious eye irritation SYOT SE 3 H336 - May cause respiratory irritation Eye Int It xot H-Thorases: see section 16 If the section (GHS-US) Signal word (GHS-US) : Warning Hazard statements (GHS-US) : Warning Hazard statements (GHS-US) : Warning Precautionary statements (GHS-US) : P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking P221 - Vaeb skin function H335 - May cause respiratory irritation H335 - May cause respiratory irritation H336 - May cause respiratory irritation H336 - May cause respiratory irritation H337 - Causes skin irritation H337 - Causes skin irritation H337 - Causes skin irritation H337 -	Use of the substance/mixture	Manufacture of substances	ppment	
P.O. Box 309 Alachus, FL 32615 - United States of America T (386) 462-7088 - F (386) 462-7097 Info@synquestlabs.com - www.synquestlabs.com 1.4. Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(5) identification 2.1. Classification of the substance or mixture Classification (CHS-US) Film. Liq, 4. H227 - Combustible liquid Skin Init. 2 H315 - Causes skin irritation STOT SE 3 H335 - May cause respiratory irritation STOT SE 3 H335 - May cause respiratory irritation FUI text of H-phrases: see section 16 2.2. Label elements GHS-US labeling : Warning Hazard pictograms (GHS-US) : Warning Hazard statements (GHS-US) : Warning Precautionary statements (GHS-US) : Warning Precautionary statements (GHS-US) : P210 - Keep away from heat/spatis/open flames/hot suffaces. No smoking P24 - Avab skin intritation H319 - Causes serious eye irritation P10 - Keep away from heat/spatis/open flames/hot suffaces. No smoking P24 - Avab skin inforcight) after handling P21 - Vash skin inforcight) after handling P21 - Keep away from seat/spatis/open flames/hot su	1.3. Details of the supplier of the sa	fety data sheet		
Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard (s) Identification 2.1. Classification of the substance or mixture Classification (GHS-US) Flam. Liq. 4 H227 - Combustible liquid Skin Irit. 2 H315 - Causes skin iritiation Eye Irit. 2A H319 - Causes serious eye iritation STOT SE 3 H335 - May cause respiratory iritation FUI text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) : Warning Hazard pictograms (GHS-US) : Warning Hazard statements (GHS-US) : Warning Hazard statements (GHS-US) : H227 - Combustible liquid H315 - Causes skin iritiation H335 - May cause respiratory iritiation H336 - Warning Precautionary statements (GHS-US) : H227 - Combustible liquid H316 - Causes skin iritiation H335 - May cause respiratory iritiation H336 - May cause respiratory iritiation H337 - May cause respiratory iritiation H336 - Wadors or in well-ventilated area P280 - Wear protective gloves/protective coloning/eye protection/face protection P306+P331+P330 - If inspes: Rinse cauciously with water for several minutes. Remove col B324-P333 - If an eyes: Rinse cauciously with water for several minutes. Remove col B324-P333 - If an eyes: Rinse cauciously with water for several minutes. Remove col B324-P333 - If skin iritiation occurs: Get medical advice/attention P332+P333 - If skin iritiation occurs: Get medical advice/attention P332+P333 - If skin iritiation occurs: Get medical advice/attention P332+P33 - If skin iritiation occurs: Get medical advice/attention	P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097			
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P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove co lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention	• • •	: H227 - Combustible liquid H315 - Causes skin irritation H319 - Causes serious eye ir		
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	P403 P403 P405	+P378 - In case of fire: Use dry sand, d +P233 - Store in a well-ventilated place +P235 - Store in a well-ventilated place - Store locked up - Dispose of contents/container to an a	. Keep containe . Keep cool	r tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS U	S)			
Not applicable				
SECTION 3: Composition/informa	ation on in	gredients		
3.1. Substance		<u> </u>		
Substance type	: Mono	p-constituent		
Name		Product identifier	%	Classification (GHS-US)
2-Chloro-6-fluorobenzotrifluoride		(CAS No) 103889-37-8	<= 100	Flam. Lig. 4, H227
(Main constituent)				Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16		•		-
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measure	S			
First-aid measures general	 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area. 			
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention.			
First-aid measures after skin contact		: Wash with plenty of soap and water. Get medical advice/attention.		
First-aid measures after eye contact	prese	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.		
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.			
4.2. Most important symptoms and e		•		
Symptoms/injuries		nost important known symptoms and ef and/or in section 11.	fects are descrit	bed in the labelling (see section
4.3. Indication of any immediate med Treat symptomatically.	dical attentio	n and special treatment needed		
SECTION 5: Firefighting measure	s			
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	oowder. Water s	pray. Use extinguishing media
5.2. Special hazards arising from the	e substance	or mixture		
Fire hazard	: Therr	nal decomposition generates: Carbon c	xides. Hydroger	n chloride. Hydrogen fluoride.
Explosion hazard		of explosion if heated under confinemen iners. May form flammable/explosive va		
5.3. Advice for firefighters				
Firefighting instructions	: In cas	se of fire: Evacuate area. Fight fire remo	otely due to the	risk of explosion.
Protection during firefighting	: Wear	gas tight chemically protective clothing ratus. For further information refer to se	in combination	with self contained breathing
SECTION 6: Accidental release m	neasures			
6.1. Personal precautions, protective				
General measures		uate unnecessary personnel. Ensure ac r or spray.	lequate air venti	lation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel				
Emergency procedures	: Only	qualified personnel equipped with suita	ble protective ec	uipment may intervene.
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6.1.2. For emergency responders	
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 precautions	
Avoid release to the environment. Notify authorit	es if product enters sewers or public waters.
6.3. Methods and material for containme	nt 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 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.

SECTIO	DN 8: Exposure controls/personal protection
8.1.	Control parameters
No additi	onal information available

8.2. **Exposure controls** 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. 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 chemical properties	
Physical state	: Liquid	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	

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	Boiling point	:	No data available
	Flash point	:	No data available
	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	:	No data available
	Relative density	:	No data available
	Relative vapor density at 20 °C	:	No data available
	Molecular mass	:	198.54 g/mol
	Solubility	:	No data available
	Log Pow	:	No data available
	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

Reactivity

No additional information available

SECTION 10: Stability and reactivity

No additional information available

10.2. Chemical stability

10.1.

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Strong 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.

SECTION	SECTION 11: Toxicological information			
11.1.	Information on toxicological effects			
Acute tox	icity	: Not classified		
Skin corro	osion/irritation	: Causes skin irritation.		
Serious e	eye damage/irritation	: Causes serious eye irritation.		

Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : May cause respiratory irritation.
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Aspiration hazard

: Not classified

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SECT	ION 12: Ecological information		
12.1.	Toxicity		
No add	No additional information available		
12.2.	Persistence and degradability		
No add	itional information available		
12.3.	Bioaccumulative potential		
No additional information available			
12.4.	Mobility in soil		
No additional information available			
12.5.	Other adverse effects		
No addi	No additional information available		

SECTION 13: Disposal consideration	s
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	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 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). T1 - 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)	
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.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
No additional information available	

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Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

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

2-Chioro-6-huorobenzothiluonde CAS No 103669-37-6 100%	2-Chloro-6-fluorobenzotrifluoride	CAS No 103889-37-8	100%
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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

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

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:

ruii text of fi-philases.	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
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.