

1-Chloro-2,4,6-trifluorobenzene Safety Data Sheet 1600710 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/26/2018 Version: 1.0

.1. Identification	
Product form	: Substance
Substance name	: 1-Chloro-2,4,6-trifluorobenzene
CAS No	: 2106-40-3
Product code	: 1600-7-10
Formula	: C6H2CIF3
Other means of identification	: MFCD00012239
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 sa	afety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - <u>www.synquestlab</u>	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificat	tion
2.1. Classification of the substance	
Classification (GHS-US)	
STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements	
STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	ry irritation
STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	
Full text of H-phrases: see section 16	ry irritation
STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 F For the second seco

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	P312 P321 P332 P337 P362 P370 P403 P403 P403 P405	s, if present and easy to do. Contii - Call a POISON CENTER or doc - Specific treatment (see supplem +P313 - If skin irritation occurs: Ge +P344 - Take off contaminated clo +P378 - In case of fire: Use dry sa +P233 - Store in a well-ventilated +P235 - Store in a well-ventilated - Store locked up - Dispose of contents/container to	tor/physician if you lental first aid instru- et medical advice/at the medical advice/a othing and wash it b ind, dry chemical or place. Keep cool	ctions on this label) tention ttention efore reuse alcohol-resistant foam to extinguish ier tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	<mark>ו on in</mark>	gredients		
3.1. Substance				
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
1-Chloro-2,4,6-trifluorobenzene (Main constituent)		(CAS No) 2106-40-3	<= 100	Flam. Liq. 3, H226 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 measures				
First-aid measures general		se of accident or if you feel unwell, e possible). Move the affected per		
First-aid measures after inhalation		ove person to fresh air and keep co ration. Get medical advice/attention		hing. If not breathing, give artificial
First-aid measures after skin contact		with plenty of soap and water. Ge		
First-aid measures after eye contact	prese	ent and easy to do. Continue rinsin	g. Get medical advi	
First-aid measures after ingestion		OT induce vomiting. Never give ar h out with water. Get medical advio		an unconscious person. Rinse
4.2. Most important symptoms and effect	ts, both	acute and delayed		
Symptoms/injuries		nost important known symptoms a and/or in section 11.	nd effects are desc	ribed in the labelling (see section
4.3. Indication of any immediate medical	attentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
e a company de la company d				
5.1. Extinguishing media	: Alcoh	ol resistant foam. Carbon dioxide.	Dry powder. Water	spray. Use extinguishing media
Suitable extinguishing media	appro	priate for surrounding fire.		
Suitable extinguishing media	stance of the st	or mixture nal decomposition generates: Carl		
Suitable extinguishing media 5.2. Special hazards arising from the sub	stance of : Therr : Risk of	or mixture	ement. Use water s	pray or fog for cooling exposed
Suitable extinguishing media 5.2. Special hazards arising from the sub Fire hazard Explosion hazard 5.3. Advice for firefighters	stance of Therr Risk of conta	or mixture nal decomposition generates: Carl of explosion if heated under confin iners. May form flammable/explos	ement. Use water s ive vapor-air mixtur	pray or fog for cooling exposed e.
Suitable extinguishing media 5.2. Special hazards arising from the sub Fire hazard Explosion hazard	: Therr : Risk of conta	or mixture nal decomposition generates: Carl	ement. Use water s ive vapor-air mixtur remotely due to the	pray or fog for cooling exposed e. e risk of explosion.

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SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective eq	uipment 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 personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
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 authoriti	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, includin	ng any incompatibilities
echnical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.
ncompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.

8: Expos controis/per onai pr

8.1. Control parameters

No additional 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.

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SECTION 9: Physical and chemica	properties
9.1. Information on basic physical and	l chemical properties
Physical state	: Liquid
Color	: No data available
Ddor	: No data available
Ddor threshold	: No data available
bH	: No data available
Melting point	: -32 °C
Freezing point	: No data available
Boiling point	: 124 °C
lash point	: 41 °C
Relative evaporation rate (butyl acetate=1)	: No data available
lammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Dxidizing properties	: No data available
/apor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.463 g/ml (@ 20 °C)
Aolecular mass	: 166.528 g/mol
Solubility	: No data available
og Pow	: No data available
uto-ignition temperature	: No data available
ecomposition temperature	: No data available
<i>liscosity</i>	: No data available
/iscosity, kinematic	: No data available
/iscosity, dynamic	: No data available
0.2. Other information	
Refractive index	: 1.4551 (@ 20 °C)
SECTION 10: Stability and reactivit	ý
0.1. Reactivity	
lo additional information available	
0.2. Chemical stability	
	torage conditions.
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The product is stable at normal handling and s 0.3. Possibility of hazardous reactions	
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Respiratory or skin sensitization	: Not classified
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

SECTIO	ON 12: Ecological information
12.1.	Toxicity
No additi	onal information available
12.2.	Persistence and degradability
No additi	onal information available
12.3.	Bioaccumulative potential
No additi	onal information available
12.4.	Mobility in soil
No additi	onal information available
12.5.	Other adverse effects

No additional information available

13.1. Waste treatment methods		
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.	
Naste 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 informa		
Dependence of Transportation (DOT)		
Department of Transportation (DOT)		
In accordance with DOT		
Fransport document description	: UN1993 Flammable liquids, n.o.s., 3, III	
JN-No.(DOT)	: UN1993	
	: Flammable liquids, n.o.s.	
Proper Shipping Name (DOT)		
,	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120	
Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)	 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid 	

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols



- : III Minor Danger
- : 203
- : 242
- : G Identifies PSN requiring a technical name

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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. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 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). T4 - 2.65 178.274(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.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 1993
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	1
15.1. US Federal regulations	
All components of this product are listed, or exc Substances Control Act (TSCA) inventory exce	cluded from listing, on the United States Environmental Protection Agency Toxic option of the states and the states and the states are stated as the state as the states are stated as the state as the

 Substances Control Act (TSCA) inventory except for:

 1-Chloro-2,4,6-trifluorobenzene
 CAS No 2106-40-3

 100%

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

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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 tex	of H-phrases:			
	Eye Irrit. 2A Flam. Liq. 3 Skin Irrit. 2		Serious eye damage/eye irritation Category 2A	
			Flammable liquids Category 3	
			Skin corrosion/irritation Category 2	
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3	
	H226 H315		Flammable liquid and vapor	
			Causes skin irritation	
	H319		Causes serious eye irritation	
	H335		May cause respiratory irritation	
NFPA f	NFPA health hazard : 3 - Short exposure could cause serious ten residual injury even though prompt medical given. NFPA fire hazard : 2 - Must be moderately heated or exposed temperature before ignition can occur. NFPA reactivity : 0 - Normally stable, even under fire exposu and are not reactive with water.		igh prompt medical attention was neated or exposed to relatively high ion can occur. In under fire exposure conditions,	
	I Rating			
Health : 2 Moderate Hazard - Ter		: 2 Moderate Hazard - I	emporary or minor injury may occur	
		temperatures before ig	laterials which must be moderately heated or exposed to high ambient nition will occur. Includes liquids having a flash point at or above 100 F ses II & IIIA)	
Physica	d		terials that are normally stable, even under fire conditions, and will NOT erize, 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.