

Safety Data Sheet 1800P43

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/15/2017 Version: 1.0

**SECTION 1: Identification** Identification 1.1. Product form : Substance Substance name : 4-Chloro-3-iodobenzotrifluoride CAS No • 672-57-1 Product code : 1800-P-43 Formula : C7H3CIF3I Synonyms : Benzene, 1-chloro-2-iodo-4-(trifluoromethyl)-: MFCD00001037 Other means of identification 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 Details of the supplier of the safety data sheet 1.3. 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.com 1.4. **Emergency telephone number** : (844) 523-4086 (3E Company - Account 10069) Emergency number SECTION 2: Hazard(s) identification **Classification of the substance or mixture** 2.1. **Classification (GHS-US)** Acute Tox. 4 (Oral) H302 - Harmful if swallowed Skin Corr. 1B H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage Eye Dam. 1 H335 - May cause respiratory irritation STOT SE 3

Full text of H-phrases: see section 16

#### Label elements 2.2.

**GHS-US** labeling

Hazard pictograms (GHS-US)

	GHS05 GHS07		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H302 - Harmful if swallowe H314 - Causes severe ski H335 - May cause respirat	burns and eye damage	
Precautionary statements (GHS-US)	P271 - Use only outdoors P280 - Wear protective glo P301+P312 - If swallowed P301+P330+P331 - If swa P303+P361+P353 - If on s skin with water/shower P304+P340 - If inhaled: Re P305+P351+P338 - If in e lenses, if present and eas P310 - Immediately call a	Inly after handling smoke when using this product or in a well-ventilated area ves/protective clothing/eye protection/face prote Call a POISON CENTER or doctor/ physician if llowed: rinse mouth. Do NOT induce vomiting kin (or hair): Take off immediately all contaminat emove person to fresh air and keep comfortable f yes: Rinse cautiously with water for several minu	you feel unwell ed clothing. Rinse for breathing tes. Remove contact
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P363	<ul> <li>Wash contaminated clothing before reuse</li> </ul>
P403+	P233 - Store in a well-ventilated place. Keep container tightly closed
P405	- Store locked up
P501	- Dispose of contents/container to an approved waste disposal plant

#### 2.3. **Other hazards**

### No additional information available

Unknown acute toxicity (GHS US) 2.4.

#### Not applicable

### **SECTION 3: Composition/information on ingredients**

#### Substance 3.1.

Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
4-Chloro-3-iodobenzotrifluoride (Main constituent)		(CAS No) 672-57-1	<= 100	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 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 measured	res			
First-aid measures general		ase of accident or if you feel unwell, seek re possible). Move the affected personne		
First-aid measures after inhalation		ove person to fresh air and keep comfort iration. Get immediate medical advice/att		ng. If not breathing, give artificial
First-aid measures after skin contact		h with plenty of soap and water. Remove ical advice/attention.	contaminated	clothing and shoes. Get immediate
First-aid measures after eye contact		ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Ge		
First-aid measures after ingestion		IOT induce vomiting. Never give anything th out with water. Get immediate medical		
4.2. Most important symptoms and	l effects, both	acute and delayed		
Symptoms/injuries		most important known symptoms and eff and/or in section 11.	ects are descrit	bed in the labelling (see section
Symptoms/injuries after inhalation		erial is destructive to tissue of the mucuou tness of breath, headache, nausea.	us membranes a	and upper respiratory tract. Cough,
4.3. Indication of any immediate m	edical attention	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measu	res			
5.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	owder. Water s	pray. Use extinguishing media
5.2. Special hazards arising from t	he substance	or mixture		
Fire hazard	: Ther	mal decomposition generates: Carbon o: ogen iodide.	kides. Hydroger	n chloride. Hydrogen fluoride.
Explosion hazard	: Risk	of explosion if heated under confinemen ainers.	t. Use water sp	ray or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions	: In ca	ase of fire: Evacuate area. Fight fire remo	tely due to the i	risk of explosion.
Protection during firefighting		r gas tight chemically protective clothing aratus. For further information refer to see		

SECTION 6: Accidental release measures		
6.1.	Personal precautions, protective equ	ipment and emergency procedures
General	measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.

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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.
6.2. Environmental precautions	

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containme	ent 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	
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.
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.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area. Light sensitive.

SECTION 9. EV	posure controls/	norconal	protoction
SECTION 0. EX		personal	protection

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.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and c	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	
Boiling point	: 58 - 60 °C (@ 0.5 mm Hg)	

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Flash point	: 110 °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	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.973 g/ml (@ 20 °C)
Molecular mass	: 306.451 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	

Refractive index

: 1.5399 (@ 20 °C)

<b>SECTION 10: Stability and reactivit</b>	У
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and s	torage 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 oxidizing agents.	
10.6. Hazardous decomposition produc	ts
Under normal conditions of storage and use, h fire, see Section 5.	azardous decomposition products should not be produced. Hazardous decomposition products in case of
<b>SECTION 11: Toxicological informa</b>	ation
11.1. Information on toxicological effect	is
Acute toxicity	: Oral: Harmful if swallowed.
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.

Respiratory or skin sensitization : Not classified

- Germ cell mutagenicity: Not classifiedCarcinogenicity: Not classified
- Reproductive toxicity : Not classified
- Specific target organ toxicity (single exposure) : May cause respiratory irritation.
- Specific target organ toxicity (repeated : Not classified exposure)

Aspiration hazard	

: Not classified

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Symptoms/injuries after inhalation

: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

12.1. Toxicity         No additional information available         12.2. Persistence and degradability         No additional information available         12.3. Bioaccumulative potential         No additional information available         12.4. Mobility in soil         No additional information available         12.5. Other adverse effects			
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12.2. Persistence and degradability         No additional information available         12.3. Bioaccumulative potential         No additional information available         12.4. Mobility in soil         No additional information available         12.5. Other adverse effects	12.1.	. Toxicity	
No additional 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 additional information available		
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No additional information available         12.4.       Mobility in soil         No additional information available         12.5.       Other adverse effects	No additional information available		
12.4.       Mobility in soil         No additional information available         12.5.       Other adverse effects	12.3.	. Bioaccumulative potential	
No additional information available 12.5. Other adverse effects	No additional information available		
12.5. Other adverse effects	12.4.	. Mobility in soil	
12.5.       Other adverse effects         No additional information available	No additional information available		
No additional information available	12.5.	. Other adverse effects	

SECTION 13: Disposal considerations			
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	1		

### **Department of Transportation (DOT)**

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

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

DOT Special Provisions (49 CFR 172.102)

- : UN3265 Corrosive liquid, acidic, organic, n.o.s., 8, II
- : UN3265
- : Corrosive liquid, acidic, organic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive



- : II Medium Danger
- : 202
- : 242
- : G Identifies PSN requiring a technical name
- : B2 MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

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	DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
	DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L
	DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
	DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" 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; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
	DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
	Other information	: No supplementary information available.
	TDG	
	No additional information available	
	Transport by sea	
	UN-No. (IMDG)	: 3265
	Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
	Class (IMDG)	: 8 - Corrosive substances
	Packing group (IMDG)	: II - substances presenting medium danger
	Air transport	
	UN-No. (IATA)	: 3265
	Proper Shipping Name (IATA)	: Corrosive liquid, acidic, organic, n.o.s.
	Class (IATA)	: 8 - Corrosives
	Packing group (IATA)	: II - Medium Danger

### **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:

4-Chloro-3-iodobenzotrifluoride	CAS No 672-57-1	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

#### 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**

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Full text of H-phrases:			
Acute To	x. 4 (Oral)	Acute toxicity (oral) Category 4	
Eye Dam	n. 1	Serious eye damage/eye irritation Category 1	
Skin Corr	r. 1B	Skin corrosion/irritation Category 1B	
STOT SE	3	Specific target organ toxicity (single exposure) Category 3	
H302		Harmful if swallowed	
H314		Causes severe skin burns and eye damage	
H318		Causes serious eye damage	
H335		May cause respiratory irritation	
NFPA health haza NFPA fire hazard NFPA reactivity			
HMIS III Rating			
Health	ealth : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatm given		
Flammability		: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)	
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.