

Safety Data Sheet 1800772 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/28/2019 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 2-(Trifluoromethyl)benzal chloride
CAS No	: 707-72-2
Product code	: 1800-7-72
Formula	: C8H5Cl2F3
Synonyms	: OFT-BAC; 2-(Dichloromethyl)benzotrifluoride
Other means of identification	: MFCD00077613
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	ifety 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	ion
2.1. Classification of the substance	
Flam. Liq. 4H227 - Combustible liquidSkin Corr. 1AH314 - Causes severe skiiEye Dam. 1H318 - Causes serious eySTOT SE 3H335 - May cause respiration	n burns and eye damage e damage
Skin Corr. 1AH314 - Causes severe skiEye Dam. 1H318 - Causes serious eySTOT SE 3H335 - May cause respiratFull text of H-phrases: see section 162.2.Label elements	n burns and eye damage e damage
Flam. Liq. 4 H227 - Combustible liquid Skin Corr. 1A H314 - Causes severe skii Eye Dam. 1 H318 - Causes serious ey STOT SE 3 H335 - May cause respirat Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	n burns and eye damage e damage
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	P40 P40	3+P233 - Store in a well-ventilated 3+P235 - Store in a well-ventilated 5 - Store locked up 1 - Dispose of contents/container	d place. Keep cool	0 7
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)			
Not applicable				
SECTION 3: Composition/in	formation on i	ngredients		
3.1. Substance				
Substance type	: Mor	no-constituent		
Name		Product identifier	%	Classification (GHS-US)
2-(Trifluoromethyl)benzal chloride		(CAS No) 707-72-2	70	Flam. Liq. 4, H227
(Main constituent)		(04310) 101-12-2	< <u>-</u> 100	Skin Corr. 1A, 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 measu	res			
4.1. Description of first aid me	asures			
First-aid measures general		ase of accident or if you feel unwe re possible). Move the affected pe		
First-aid measures after inhalation		nove person to fresh air and keep biration. Get immediate medical ac		thing. If not breathing, give artificial
First-aid measures after skin contact		sh with plenty of soap and water. F dical advice/attention.	Remove contaminate	d clothing and shoes. Get immediate
First-aid measures after eye contact		nediately flush eyes thoroughly wit sent and easy to do. Continue rins		5 minutes. Remove contact lenses, in nedical 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 immediate medical advice/attention.		
4.2. Most important symptom	s and effects, botl	n acute and delayed		
Symptoms/injuries		most important known symptoms and/or in section 11.	and effects are desc	ribed in the labelling (see section
Symptoms/injuries after inhalation		erial is destructive to tissue of the rtness of breath, headache, nause		s and upper respiratory tract. Cough
4.3. Indication of any immedia	te medical attenti	on and special treatment neede	d	
Treat symptomatically.				
SECTION 5: Firefighting me	asures			
5.1. Extinguishing media				
Suitable extinguishing media		ohol resistant foam. Carbon dioxid	e. Dry powder. Water	r spray. Use extinguishing media
5.2. Special hazards arising fr				
Fire hazard	: The	rmal decomposition generates: Ca	arbon oxides. Hydrog	en chloride. Hydrogen fluoride.
Explosion hazard		of explosion if heated under conf tainers.	inement. Use water s	spray or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions	: In c	ase of fire: Evacuate area. Fight fi	re remotely due to the	e risk of explosion.
Protection during firefighting	: We	ar gas tight chemically protective of	lothing in combinatio	

	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.

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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 containm	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	

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.
: 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.
ng any incompatibilities
: Comply with applicable regulations.
: Keep container closed when not in use.
: Refer to Section 10 on Incompatible Materials.
: Store in dry, cool, well-ventilated area.

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SECTION 8: EX	posure controls/	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 chemical properties		
Physical state	: Liquid	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
Hq	: No data available	
Melting point	: -34.4 °C	
Freezing point	: No data available	
Boiling point	: 71 °C (@ 11 mm Hg)	

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Flash point	: 88 °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	: 1.4 g/ml (@ 20 °C)
Molecular mass	: 229.027 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	

Defrective index

· 1 4767 (@ 22 °C)

Refractive index	: 1.4767 (@ 23 °C)
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and sto	prage 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 products	
Under normal conditions of storage and use, haz fire, see Section 5.	zardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological informat	
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
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 classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated	: Not classified

Aspiration hazard

exposure)

: Not classified

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antome/injurios after inhalation

Material is destructive to tissue of the musuluus membranes and upper respiratory treat. Cough

ECTION 12: Ecological information 2.1. Toxicity	n
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lo additional information available	
2.2. Persistence and degradability	
lo additional information available	
2.3. Bioaccumulative potential	
lo additional information available	
2.4. Mobility in soil	
lo additional information available	
2.5. Other adverse effects	
lo additional information available	
SECTION 13: Disposal consideration	ns
3.1. Waste treatment methods	
Vaste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Vaste disposal recommendations	 Dispose of contents/container in accordance with licensed collector's sorting instructions. Recycle the material as far as possible.
SECTION 14: Transport information	
Department of Transportation (DOT)	
n accordance with DOT	
ransport document description	: UN1760 Corrosive liquids, n.o.s., 8, III
IN-No.(DOT)	: UN1760
Proper Shipping Name (DOT)	: Corrosive liquids, n.o.s. : 8 - Class 8 - Corrosive material 49 CFR 173.136
ransport hazard class(es) (DOT) łazard labels (DOT)	: 8 - Corrosive
Packing group (DOT)	: III - Minor Danger
OOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
OOT Packaging Bulk (49 CFR 173.xxx)	: 241
OT Symbols	: G - Identifies PSN requiring a technical name
OOT 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). T7 - 4 178.274(d)(2) Normal

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 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.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154

DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L CFR 175.75)

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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.		
TDG			
No additional information available			
Transport by sea			
UN-No. (IMDG)	: 1760		
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, N.O.S.		
Class (IMDG)	: 8 - Corrosive substances		
Packing group (IMDG)	: III - substances presenting low danger		
Air transport			
UN-No. (IATA)	: 1760		
Proper Shipping Name (IATA)	: Corrosive liquid, n.o.s.		
Class (IATA)	: 8 - Corrosives		
Packing group (IATA)	: III - Minor 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:

2-(Trifluoromethyl)benzal chloride CAS No 707-72-2 100%			
	2-(Trifluoromethyl)benzal chloride	CAS No 707-72-2	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

No additional information available

EU-Regulations

Vational regulations 2-(Trifluoromethyl)benzal chloride (707-72-2) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the TCSI (Taiwan Chemical Substance Inventory)

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:

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 4	Flammable liquids Category 4
Skin Corr. 1A	Skin corrosion/irritation Category 1A
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

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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	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
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.