

3-(Trifluoromethoxy)benzoyl chloride Safety Data Sheet 2616753 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/28/2016 Version: 1.0

SECTION 1: Identification	
I.1. Identification	
Product form	: Substance
Substance name	: 3-(Trifluoromethoxy)benzoyl chloride
CAS No	: 86270-03-3
Product code	: 2616-7-53
Formula	: C8H4CIF3O2
Other means of identification	: MFCD00061268
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	ety 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 of	
Classification (GHS-US)	
Flam. Liq. 4H227 - Combustible liquidSkin Corr. 1AH314 - Causes severe skinEye Dam. 1H318 - Causes serious eyeSTOT SE 3H335 - May cause respiratoFull text of H-phrases: see section 16	damage
Skin Corr. 1AH314 - Causes severe skinEye Dam. 1H318 - Causes serious eye	damage
Skin Corr. 1A H314 - Causes severe skin Eye Dam. 1 H318 - Causes serious eye 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)	damage
Skin Corr. 1A H314 - Causes severe skin Eye Dam. 1 H318 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	damage bry irritation
Skin Corr. 1A H314 - Causes severe skin Eye Dam. 1 H318 - Causes serious eye 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)	damage by irritation

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,	P403+P235 - Store in a well-ventilate P405 - Store locked up P501 - Dispose of contents/container		e disposal plant
2.3. Other hazards			
Other hazards not contributing to the classification	: Lachrymator.		
2.4. Unknown acute toxicity (GHS	US)		
Not applicable			
SECTION 3: Composition/inform	mation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
3-(Trifluoromethoxy)benzoyl chloride (Main constituent)	(CAS No) 86270-03-3	<= 100	Flam. Liq. 4, H227 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 measures			
4.1. Description of first aid measu	res		
First-aid measures general	: In case of accident or if you feel unwe where possible). Move the affected pe		
First-aid measures after inhalation	: Remove person to fresh air and keep respiration. Get immediate medical ad		thing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and water. I medical advice/attention.	Remove contaminate	d clothing and shoes. Get immediate
First-aid measures after eye contact	: Immediately flush eyes thoroughly wit present and easy to do. Continue rins		
First-aid measures after ingestion	: Do NOT induce vomiting. Never give mouth out with water. Get immediate		
4.2. Most important symptoms and	d effects, both acute and delayed		
Symptoms/injuries	: The most important known symptoms 2.2) and/or in section 11.	and effects are desc	ribed in the labelling (see section
Symptoms/injuries after inhalation	: Material is destructive to tissue of the shortness of breath, headache, nause		s and upper respiratory tract. Cough,
4.3. Indication of any immediate m	nedical attention and special treatment neede	d	
Treat symptomatically.	·		
SECTION 5: Firefighting measu	res		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxid appropriate for surrounding fire.	e. Dry powder. Wate	r spray. Use extinguishing media
5.2. Special hazards arising from t	the substance or mixture		
Fire hazard	: Thermal decomposition generates: Ca	arbon oxides. Hydrog	en chloride.
Explosion hazard	: Risk of explosion if heated under cont containers. May form flammable/explo		
Reactivity	: Reacts with water, generates gases of release highly explosive/flammable hysteria.		posure to water with some metals to
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area. Fight fi	re remotely due to th	e risk of explosion.
Protection during firefighting	: Wear gas tight chemically protective of apparatus. For further information refe		

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SECTION 6: Accidental release measures			
6.1. 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 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, includir	ng any incompatibilities		
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Moisture sensitive. Keep contents under inert gas.		
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

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	I properties
9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Color	: No data available
Ddor	: No data available
Odor threshold	: No data available
рН	: No data available
Nelting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 91 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
xplosive 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	: 1.419 g/ml (@ 25 °C)
lolecular mass	: 224.56 g/mol
Solubility	: No data available
.og Pow	: No data available
uto-ignition temperature	: No data available
Decomposition temperature	: No data available
/iscosity	: No data available
/iscosity, kinematic	: No data available
/iscosity, dynamic	: No data available
.2. Other information	
Refractive index	: 1.467 (@ 20 °C)
SECTION 10: Stability and reactivi	tv
0.1. Reactivity	
	Reacts on exposure to water with some metals to release highly explosive/flammable hydrogen gas.

10.2.	2. Chemical stability			
The proc	The product is stable at normal handling and storage conditions.			
10.3.	Possibility of hazardous reactions			
No additi	onal information available			
10.4.	Conditions to avoid			
Keep aw	ay from heat, sparks and flame. Moisture	A.		
10.5.	Incompatible materials			
Alcohols	Alcohols. Oxidizing agents. Strong bases. Water.			
10.6.	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 11: Toxicological information				
11.1.	Information on toxicological effects			
Acute to	Acute toxicity : Not classified			
Skin corr	irritation : Causes severe skin burns and eye damage.			
Serious e	eye damage/irritation	: Causes serious eye damage.		

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Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	 Not classified Not classified Not classified
Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	Not classifiedMay cause respiratory irritation.Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

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

No additional information available

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 informati	on	

Department of Transportation (DOT)

Department of Transportation (D
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

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



- : III Minor Danger
- : 203
- : 241
- : G Identifies PSN requiring a technical name

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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). T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	60 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.
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)	:	III - substances presenting low danger
Air transport UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA) Packing group (IATA)	:	3265 Corrosive liquid, acidic, organic, n.o.s. 8 - Corrosives III - Minor Danger
SECTION 15: Pequilatory information	_	

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 (ISCA) inventory except for:		
3-(Trifluoromethoxy)benzoyl chloride	CAS No 86270-03-3	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

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

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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	H314 Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
H335	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	: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.	
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	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.	
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.