

3-(Trifluoromethyl)anisole Safety Data Sheet 2807303 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/01/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 3-(Trifluoromethyl)anisole
CAS No	: 454-90-0
Product code	: 2807-3-03
Formula	: C8H7F3O
Synonyms	: 3-(Methoxy)benzotrifluoride
Other means of identification	: MFCD00000385
1.2. Relevant identified uses of the sub	stance 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 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	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or I	
Classification (GHS-US) Flam. Liq. 3 H226 - Flammable liquid and va Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irrita STOT SE 3 H335 - May cause respiratory in Full text of H-phrases: see section 16	ation
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS02 GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	 H226 - Flammable liquid and vapor H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical/ventilating/lighting equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge 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 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
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		lense P312 P321 P332 P337 P362 P370 P403 P403 P403 P405	+P351+P338 - If in eyes: Rinse cautious s, if present and easy to do. Continue rin - Call a POISON CENTER or doctor/phy - Specific treatment (see supplemental f +P313 - If skin irritation occurs: Get med +P313 - If eye irritation persists: Get med +P364 - Take off contaminated clothing a +P378 - In case of fire: Use dry sand, dry +P233 - Store in a well-ventilated place. +P235 - Store in a well-ventilated place. - Store locked up - Dispose of contents/container to an ap	Sing sician if you fee rst aid instructio cal advice/atten lical advice/atten and wash it befo chemical or alc Keep container Keep cool	l unwell ns on this label) tion ntion re reuse cohol-resistant foam to extinguish tightly closed
2.3.	Other hazards				
No addi	tional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not app	licable				
SECT	ON 3: Composition/information	on in	gredients		
3.1.	Substance				
Substan		Mono	-constituent		
Name	•••		Product identifier	%	Classification (GHS-US)
	oromethyl)anisole		(CAS No) 454-90-0	/0 <= 100	Flam. Liq. 3, H226
	nstituent)				Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text	of H-phrases: see section 16				
3.2.	Mixture				
Not app	licable				
SECT	ON 4: First aid measures				
4.1.	Description of first aid measures				
First-aid	measures general :		e of accident or if you feel unwell, seek a possible). Move the affected personnel		
First-aid	measures after inhalation :		ove person to fresh air and keep comforta ation. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial
First-aid	measures after skin contact :	Wash	with plenty of soap and water. Get med	cal advice/atten	tion.
First-aid	measures after eye contact :	Imme prese	diately flush eyes thoroughly with water the and easy to do. Continue rinsing. Get	or at least 15 m medical advice/	inutes. Remove contact lenses, if attention.
First-aid	measures after ingestion :		OT induce vomiting. Never give anything out with water. Get medical advice/atte		unconscious person. Rinse
4.2.	Most important symptoms and effects	, both a	acute and delayed		
Symptor	ns/injuries :		nost important known symptoms and effe nd/or in section 11.	cts are describe	ed in the labelling (see section
4.3.	Indication of any immediate medical at	ttentio	n and special treatment needed		
Treat sy	mptomatically.				
SECT	ON 5: Firefighting measures				
5.1.	Extinguishing media				
			ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2.	Special hazards arising from the subst	tance	or mixture		
Fire haz			nal decomposition generates: Carbon ox	des. Hvdroaen	fluoride.
		Risk o	of explosion if heated under confinement iners. May form flammable/explosive vap	Use water spra	
5.3.	Advice for firefighters				
	· · · · · · · · · · · · · · · · · · ·	In cas	e of fire: Evacuate area. Fight fire remot	elv due to the ris	sk of explosion.
-	-	Wear	gas tight chemically protective clothing i atus. For further information refer to sec	n combination w	vith self contained breathing

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SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	
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 authoritie	s if product enters sewers or public waters.
6.3. Methods and material for containment	at 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	g 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.

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 chemical		
9.1. Information on basic physical and		
Physical state	: Liquid	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: 160 °C	
Flash point	: 48 °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	: 1.217 g/ml (@ 20 °C)	
Molecular mass	: 176.14 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	: 1.44 (@ 20 °C)	
SECTION 10: Stability and reactivit	y l	
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
The product is stable at normal handling and st	orage conditions.	
10.3. Possibility of hazardous reactions	-	
No additional information available		
10.4.Conditions to avoidKeep away from heat, sparks and flame.		
10.5. Incompatible materials		
Strong oxidizing agents.		
10.6. Hazardous decomposition product		
Under normal conditions of storage and use, ha fire, see Section 5.	azardous decomposition products should not be produced. Hazardous decomposition products	s in case of
SECTION 11: Toxicological informa		
11.1. Information on toxicological effect	5	
A quite tovicity	. Not closefied	
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
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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

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 addi	tional information available
12.5.	Other adverse effects
No addi	tional information available

SECTION 13: Disposal consideration	IS
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

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 : UN1993 Flammable liquids, n.o.s., 3, III

: UN1993

- : Flammable liquids, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



: 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, 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)	
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	
15.1. US Federal regulations	
All components of this product are listed, or exc	luded from listing, on the United States Environmental Protection Agency Toxic

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:

3-(Trifluoromethyl)anisole	CAS No 454-90-0	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

3-(Trifluoromethyl)anisole (454-90-0)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

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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

Eye	Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flar	n. Liq. 3	Flammable liquids Category 3
Skir	n Irrit. 2	Skin corrosion/irritation Category 2
STO	DT SE 3	Specific target organ toxicity (single exposure) Category 3
H22	26	Flammable liquid and vapor
H31	5	Causes skin irritation
H31	9	Causes serious eye irritation
H33	5	May cause respiratory irritation
NFPA fire ha		 residual injury even though prompt medical attention was given. 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rat Health Flammability	Ū	 2 Moderate Hazard - Temporary or minor injury may occur 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
Physical		 but below 200 F. (Classes II & IIIA) 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.