

3-(Trifluoromethoxy)bromobenzene Safety Data Sheet 2607B53 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/15/2017 Revision date: 05/21/2018 Version: 1.1

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 3-(Trifluoromethoxy)bromober	7909	
		Zene	
AS No	: 2252-44-0		
roduct code	: 2607-B-53		
ormula	: C7H4BrF3O		
ynonyms		penzene; 3-Bromo-a,a,a-trifluoroanisole	
ther means of identification	: MFCD00040943		
2. Relevant identified uses of the	substance or mixture and uses advis	ed against	
lse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and develo	pment	
.3. Details of the supplier of the sa	fety data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Machua, FL 32615 - United States of Ameri ⁻ (386) 462-0788 - F (386) 462-7097 <u>ofo@synquestlabs.com</u> - <u>www.synquestlab</u>			
4. Emergency telephone number			
mergency number	: (844) 523-4086 (3E Company	- Account 10069)	
ECTION 2: Hazard(s) identificat			
	or mixture		
Classification (GHS-US)			
lam. Liq. 4 H227 - Combustible liquid			
Skin Irrit. 2 H315 - Causes skin irritation	n		
Eye Irrit. 2A H319 - Causes serious eye			
STOT SE 3 H335 - May cause respirato	ry irritation		
Full text of H-phrases: see section 16			
.2. Label elements			
HS-US labeling lazard pictograms (GHS-US)			
lazard pielograms (CHO OO)	GHS07		
ignal word (GHS-US)	: Warning		
lazard statements (GHS-US)	: H227 - Combustible liquid		
	H315 - Causes skin irritation		
	H319 - Causes serious eye irr		
	H335 - May cause respiratory		
Precautionary statements (GHS-US)	P261 - Avoid breathing fumes, P264 - Wash skin thoroughly a P271 - Use only outdoors or in P280 - Wear protective gloves P302+P352 - If on skin: Wash P304+P340 - If inhaled: Remo P305+P351+P338 - If in eyes: lenses, if present and easy to P312 - Call a POISON CENTE P321 - Specific treatment (see P332+P313 - If skin irritation o P337+P313 - If eye irritation p	after handling a well-ventilated area /protective clothing/eye protection/face protection with plenty of soap and water ve person to fresh air and keep comfortable for th Rinse cautiously with water for several minutes. do. Continue rinsing ER or doctor/physician if you feel unwell supplemental first aid instructions on this label) ccurs: Get medical advice/attention ersists: Get medical advice/attention	breathing
		inated clothing and wash it before reuse	
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	P403+P233 - Store P403+P235 - Store P405 - Store locked	in a well-ventilated place	e. Keep containe e. Keep cool	
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US	6)			
Not applicable				
SECTION 3: Composition/informa	tion on ingredients			
3.1. Substance				
Substance type	: Mono-constituent			
Name	Product ide	entifier	%	Classification (GHS-US)
3-(Trifluoromethoxy)bromobenzene (Main constituent)	(CAS No) 2252	2-44-0	<= 100	Flam. Liq. 4, H227 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	where possible). Me	ove the affected personn	el away from the	
First-aid measures after inhalation	respiration. Get me	dical advice/attention.		ning. If not breathing, give artificial
First-aid measures after skin contact		f soap and water. Get me		
First-aid measures after eye contact	 Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse 			
First-aid measures after ingestion	mouth out with wate	er. Get medical advice/at		an unconscious person. Rinse
4.2. Most important symptoms and e			·· ·	9 1. d. 1. u. 7
Symptoms/injuries	2.2) and/or in section		ffects are descri	ibed in the labelling (see section
4.3. Indication of any immediate med Treat symptomatically.	lical attention and special	I treatment needed		
SECTION 5: Firefighting measure	S			
5.1. Extinguishing media		om Corbon disside Des	noudor Mater	
Suitable extinguishing media	appropriate for surr		powder. water	spray. Use extinguishing media
5.2. Special hazards arising from the				
Fire hazard		0	, ,	en bromide. Hydrogen fluoride.
Explosion hazard		heated under confineme m flammable/explosive v		pray or fog for cooling exposed
5.3. Advice for firefighters	, -	, ,		
Firefighting instructions	: In case of fire: Ever	cuate area. Fight fire rem	otely due to the	risk of explosion
Protection during firefighting	: Wear gas tight cher	mically protective clothing	in combination	with self contained breathing ure controls/personal protection".
SECTION 6: Accidental release m				
6.1. Personal precautions, protective				
General measures	: Evacuate unnecess vapor or spray.	sary personnel. Ensure a	dequate air vent	tilation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel				
Emergency procedures	: Only qualified perso	onnel equipped with suita	ble protective e	quipment may intervene.
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6.1.2. For emergency responders	3 · · · · · · · · · · · · · · · · · · ·
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	ŝ
Avoid release to the environment. Notif	fy authorities if product enters sewers or public waters.
6.3. Methods and material for c	ontainment 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	S
No additional information available	
SECTION 7: Handling and sto	brage
7.1. Precautions for safe handli	
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.
Ĵ	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
u Hygiene measures	 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. Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or
Hygiene measures 7.2. Conditions for safe storage	 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. 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.
u Hygiene measures	 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. 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. e, including any incompatibilities
Hygiene measures 7.2. Conditions for safe storage Technical measures	 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. 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. e, including any incompatibilities Comply with applicable regulations.

SECTI	ION 8: Exposure controls/personal protection
8.1.	Control parameters
No addit	itional 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 cham	ical proportion

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	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	

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Boiling point	:	156 - 158 °C
Flash point	:	62 °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	:	1.62 g/ml (@ 20 °C)
Molecular mass	:	241.005 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

: 1.462 (@ 20 °C)

SECTION 10: Stability and reactivity

10.1.	eactivity
No additio	al information available
10.2.	hemical stability
The produ	t is stable at normal handling and storage conditions.
10.3.	ossibility of hazardous reactions
No additio	al information available
10.4.	conditions to avoid
Keep awa	from heat, sparks and flame.
10.5.	ncompatible materials
Strong ox	izing agents.
10.6.	azardous decomposition products
fire, see S	
SECTIC	N 11: Toxicological information
11.1.	nformation on toxicological effects
Acute tox	ty : Not classified

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
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

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

SECTION 13: Disposal consideration	S
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	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
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, 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). T1 - 1.5 178.274(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.

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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 excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

3-(Trifluoromethoxy)bromobenzene CAS No 2252-44-0 100%
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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-(Trifluoromethoxy)bromobenzene (2252-44-0)			
Listed and the TOOL (Tailored Objective) Objectively (Deltation of the second second			

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

Revision date

: 05/21/2018

Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

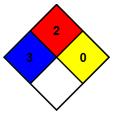
NFPA health hazard

3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. 2 - Must be moderately heated or exposed to relatively high

NFPA reactivity

NFPA fire hazard

temperature before ignition can occur.0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



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HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
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.