

Safety Data Sheet 6664B74 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/19/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 4-Bromophenyl trifluoromethanesulfonate
CAS No	: 129112-25-0
Product code	: 6664-B-74
Formula	: C7H4BrF3O3S
Synonyms	: 4-Bromophenyl triflate
Other means of identification	: MFCD07784325
1.2. Relevant identified uses of the s	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 saf	fety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs	
1.4. Emergency telephone number	: (844) 523-4086 (3E Company - Account 10069)
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
Acute Tox. 4 (Oral) H302 - Harmful if s Acute Tox. 4 (Dermal) H312 - Harmful in	contact with skin
Acute Tox. 4 (Oral)H302 - Harmful if sAcute Tox. 4 (Dermal)H312 - Harmful inSkin Corr. 1BH314 - Causes seEye Dam. 1H318 - Causes seSTOT SE 3H335 - May causeFull text of H-phrases: see section 16	contact with skin evere skin burns and eye damage
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	P321 - Specific treatment (see suppleme P330 - Rinse mouth P362+P364 - Take off contaminated clot P363 - Wash contaminated clothing befo P403+P233 - Store in a well-ventilated p P405 - Store locked up P501 - Dispose of contents/container to	thing and wash it be pre reuse place. Keep containe	er tightly closed
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/information	on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
4-Bromophenyl trifluoromethanesulfonate (Main constituent)	(CAS No) 129112-25-0	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 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 measures			· · · · · · · · · · · ·
First-aid measures general	: In case of accident or if you feel unwell, where possible). Move the affected pers		
First-aid measures after inhalation	Remove person to fresh air and keep co respiration. Get immediate medical advis		ning. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and water. Rem medical advice/attention.	move contaminated	clothing and shoes. Get immediate
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 immediate medical advice/attention.		
First-aid measures after ingestion	Do NOT induce vomiting. Never give any mouth out with water. Get immediate me		
4.2. Most important symptoms and effects	s, both acute and delayed		
Symptoms/injuries	The most important known symptoms ar 2.2) and/or in section 11.	nd effects are descr	ibed in the labelling (see section
Symptoms/injuries after inhalation	: Material is destructive to tissue of the muscle shortness of breath, headache, nausea.	ucuous membranes	and upper respiratory tract. Cough,
4.3. Indication of any immediate medical a	attention and special treatment needed		
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. appropriate for surrounding fire.	Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the subs	stance or mixture		
	: Thermal decomposition generates: Carb Sulfur oxides.	oon oxides. Hydroge	en bromide. Hydrogen fluoride.
Explosion hazard	: Risk of explosion if heated under confine containers.	ement. Use water sp	oray or fog for cooling exposed
5.3. Advice for firefighters			
	: In case of fire: Evacuate area. Fight fire	remotely due to the	risk of explosion.
Firefighting instructions			

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SECTION 6: Accidental release measure	Ires	
.1. Personal precautions, protective equipment and emergency procedures		
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 authoritie	s if product enters sewers or public waters.	
6.3. Methods and material for containment 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	any incompatibilities	
	: 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.	
SECTION 8: Exposure controls/perso	nal protection	
8.1. Control parameters		
No additional information available		
8.2. Exposure controls	Ensure good ventilation of the work station. Emergency are weak fountains and safety at sures	
	<ul> <li>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.</li> </ul>	
•	Protective gloves. 29 CFR 1910.138: Hand Protection.	
Eye protection Skin and body protection	<ul> <li>Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.</li> <li>Wear suitable protective clothing.</li> </ul>	
	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory	
	Protection. : Safety shoes. 29 CFR 1910.136: Foot Protection.	
SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and ch		
•	Liquid	
	No data available	
Odor Odorthread-ald	No data available	
Odor threshold	: No data available	
pН	: No data available	

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Ì	Melting point	:	No data available
	Freezing point	:	No data available
	Boiling point	:	112 - 113 °C (@ 151 mm Hg)
	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
	Molecular mass	:	305.069 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

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	tional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	tional information available
10.4.	Conditions to avoid
Protect	from sunlight. Do not expose to temperatures exceeding 50 °C Keep away from heat, sparks and flame.

## 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Strong reducing agents.

## 10.6. 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 toxicity

: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin.

4-Bromophenyl trifluoromethanesulfonate (1	29112-25-0)
ATE US (oral)	500.000 mg/kg body weight
ATE US (dermal)	1100.000 mg/kg body weight
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.

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Specific target organ toxicity (repeated exposure)	: 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	itional information available
12.2.	Persistence and degradability
No addi	itional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	itional 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 information	on		

# Department of Transportation (DOT)

Department of Transportation
In accordance with DOT
Not regulated for transport

### TDG

No additional information available

### Transport by sea

No additional information available

#### Air transport

No additional information available

## **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-Bromophenyl trifluoromethanesulfonate	CAS No 129112-25-0	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 No additional information available

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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**

	Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
	Eye Dam. 1	Serious eye damage/eye irritation Category 1
	Skin Corr. 1B	Skin corrosion/irritation Category 1B
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H302	Harmful if swallowed
	H312	Harmful in contact with skin
	H314	Causes severe skin burns and eye damage
	H318	Causes serious eye damage
	H335	May cause respiratory irritation
NFPA f	nealth hazard ire hazard eactivity	<ul> <li>3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.</li> <li>0 - Materials that will not burn.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>
HMIS II	I Rating	
HMIS II Health	I Rating	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
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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.