

### Safety Data Sheet 6862F24

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations 22/40/0040 .. .

Date of iss	ue: 08/13/2019 Version: 1.0
SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 2-Bromo-4-(trifluoromethyl)benzenesulfonyl chloride
CAS No	: 54403-98-4
Product code	: 6862-F-24
Formula	: C7H3BrCIF3O2S
Other means of identification	: MFCD03094394
1.2. Relevant identified uses of the substa	ance 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 d	ata 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.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 mi	
Classification (GHS-US) Skin Corr. 1B H314 - Causes severe skin burn	a and ava demaga
Eye Dam. 1 H318 - Causes serious eye dam STOT SE 3 H335 - May cause respiratory irr	age
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS05 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	<ul> <li>P260 - Do not breathe fumes, mist, spray, vapors</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>P262 - P262 - P262</li></ul>

skin with water/shower

P405 - Store locked up

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

P321 - Specific treatment (see supplemental first aid instructions on this label) P363 - Wash contaminated clothing before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P501 - Dispose of contents/container to an approved waste disposal plant

lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/ physician

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	- ,			
.3. Other hazards				
classification	· · ·			
	2.4. Unknown acute toxicity (GHS US)			
Not applicable				
SECTION 3: Composition/information	on in	gredients		
3.1. Substance				
Substance type :	Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
2-Bromo-4-(trifluoromethyl)benzenesulfonyl chloride (Main constituent)		(CAS No) 54403-98-4	<= 100	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 :		e of accident or if you feel unwell, seek r possible). Move the affected personnel		
First-aid measures after inhalation :		ove person to fresh air and keep comforta ation. Get immediate medical advice/atte		g. If not breathing, give artificial
First-aid measures after skin contact :		with plenty of soap and water. Remove cal advice/attention.	contaminated cl	othing 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 :	<ul> <li>Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.</li> </ul>			
4.2. Most important symptoms and effects	both a	acute and delayed		
Symptoms/injuries :		nost important known symptoms and effe nd/or in section 11.	ects are describe	d in the labelling (see section
Symptoms/injuries after inhalation :		ial is destructive to tissue of the mucuous ness of breath, headache, nausea.	s membranes ar	nd 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				
	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.			
5.2. Special hazards arising from the substance or mixture				
Fire hazard :	Thermal decomposition generates: Carbon oxides. Hydrogen bromide. Hydrogen chloride. Sulfur oxides. Hydrogen fluoride.			
Explosion hazard :	: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers.			
5.3. Advice for firefighters				
Firefighting instructions :	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.			
Protection during firefighting :	: Wear gas tight chemically protective clothing in combination with self contained breathing			
apparatus. For further information refer to section 8: "Exposure controls/personal protection".				
SECTION 6: Accidental release measu	SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equip		and emergency procedures		
	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.			
6.1.1. For non-emergency personnel				
	: Only qualified personnel equipped with suitable protective equipment may intervene.			

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Avoid release to the environment. Notify authorities 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.	6.1.2.	For emergency responders	
In the second	Protectiv	ve equipment	
Avoid release to the environment. Notify authorities 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. Moisture sensitive. Keep contents under inert gas.         Incompatible materials       : Refer to Section 10 on Incompatible Material	Emerger	ncy procedures	
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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         Technical measures       : Comply with applicable regulations.         Storage conditions       : Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.         Incompatible materials       : Refer to Section 10 on Incompatible Materials.	6.3.	Methods and material for containme	and cleaning up
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smoke when using this product. Always wash hands after handling the product.         7.2.       Conditions for safe storage, including any incompatibilities         Technical measures       :       Comply with applicable regulations.         Storage conditions       :       Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.         Incompatible materials       :       Refer to Section 10 on Incompatible Materials.	Precauti	ons for safe handling	ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal
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Storage conditions       : Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.         Incompatible materials       : Refer to Section 10 on Incompatible Materials.	7.2.	Conditions for safe storage, includir	any incompatibilities
Incompatible materials : Refer to Section 10 on Incompatible Materials.	Technica	al measures	Comply with applicable regulations.
	Storage	conditions	Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Storage area : Store in dry, cool, well-ventilated area.	Incompa	tible 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.

### **SECTION 9: Physical and chemical properties**

9.1. I	nformation on basic physical and	chemical properties	
Physical st	ate	: Liquid	
Color		: No data available	
Odor		: No data available	
Odor thres	hold	: No data available	
pН		: No data available	
Melting poi	int	: No data available	
Freezing p	oint	: No data available	
Boiling poi	nt	: 235 - 236 °C	
Flash point	t	: > 110 °C	
Relative ev	vaporation rate (butyl acetate=1)	: No data available	

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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	:	1.865 g/ml (@ 20 °C)
Molecular mass	:	323.515 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		

9.2. Other information

Refractive index

: 1.527 (@ 20 °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 storage 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 bases. Strong oxidizing 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	: Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	<ul> <li>Causes severe skin burns and eye damage.</li> <li>Causes serious eye damage.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : May cause respiratory irritation.
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.

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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	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 considera	ations
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

DOT Special Provisions (49 CFR 172.102)

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



- : II Medium Danger
- : 202
- : 242
- : G Identifies PSN requiring a technical name
- : B2 MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 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 : 1 L (49 CFR 173.27)

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DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
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)	: II - substances presenting medium danger
Air transport	
UN-No. (IATA)	: 3265
Proper Shipping Name (IATA)	: Corrosive liquid, acidic, organic, n.o.s.
	: 8 - Corrosives
Class (IATA)	

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic

2-Bromo-4-(trifluoromethyl)benzenesulfonyl chloride CAS No 54403-98-4 100%	Substances Control Act (ISCA) Inventory except for:		
	2-Bromo-4-(trifluoromethyl)benzenesulfonyl chloride	CAS No 54403-98-4	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**

2-Bromo-4-(trifluoromethyl)benzenesulfonyl chloride (54403-98-4)	
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
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
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	: 1 - Must be preheated 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	<ul> <li>1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)</li> </ul>
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.