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S-(Trifluoromethyl)dibenzothiophenium triflate

Safety Data Sheet 6664311 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/13/2018 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: S-(Trifluoromethyl)dibenzothio	bhenium triflate	
CAS No	: 129946-88-9		
Product code	: 6664-3-11		
Formula	: C14H8F6O3S2		
Synonyms	triflate	thiophenium triflate; S-(Trifluoromethyl)dibenz	o[b,d]thiophenium
Other means of identification	: MFCD00236132		
.2. Relevant identified uses of the	substance or mixture and uses advis	ed against	
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and develo		
.3. Details of the supplier of the sa	fety data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab			
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company	- Account 10069)	
SECTION 2: Hazard(s) identificat 2.1. Classification of the substance Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritation	or mixture		
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	 H315 - Causes skin irritation H319 - Causes serious eye irri H335 - May cause respiratory 		
Precautionary statements (GHS-US)	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 P362+P364 - Take off contami	fter handling a well-ventilated area protective clothing/eye protection/face protect with plenty of soap and water /e person to fresh air and keep comfortable fo Rinse cautiously with water for several minute	r breathing es. Remove contact
	P405 - Store locked up	initiated place. Reep container lightly closed	

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

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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	on on in	gredients		
3.1. Substance				
Substance type	: Mono	constituent		
Name		Product identifier	%	Classification (GHS-US)
S-(Trifluoromethyl)dibenzothiophenium triflate (Main constituent)		(CAS No) 129946-88-9	<= 100	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	se of accident or if you feel unwell, seek r e possible). Move the affected personnel	away from the o	contaminated area.
First-aid measures after inhalation		ove person to fresh air and keep comforta ation. Get medical advice/attention.	ble for breathin	g. If not breathing, give artificial
First-aid measures after skin contact		with plenty of soap and water. Get medi		
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.				
First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.				
4.2. Most important symptoms and effe	cts, both	acute and delayed		
Symptoms/injuries		nost important known symptoms and effe ind/or in section 11.	cts are describe	ed in the labelling (see section
4.3. Indication of any immediate medic	al attentio	n and special treatment needed		
Freat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	wder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the su	ubstance	or mixture		
Fire hazard	: Therr	nal decomposition generates: Carbon oxi	des. Hydrogen	fluoride. Sulfur oxides.
5.3. Advice for firefighters				
Firefighting instructions	: In cas	se of fire: Evacuate area.		
Protection during firefighting		gas tight chemically protective clothing in aus. For further information refer to sect		
SECTION 6: Accidental release mea				
6.1. Personal precautions, protective e			anala alamandi	
General measures	: Evac	uate unnecessary personnel. Ensure ade	quate air ventila	ation. Do not breathe dust.
6.1.1. For non-emergency personnel				
Emergency procedures	: Only	qualified personnel equipped with suitable	e protective equ	uipment may intervene.
6.1.2. For emergency responders				
Protective equipment		ot attempt to take action without suitable p to section 8: "Exposure controls/personal		ment. For further information
6.2. Environmental precautions				
Avoid release to the environment. Notify author	ities if proc	luct enters sewers or public waters		

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up			
For containment Methods for cleaning up	: Stop leak if safe to do so. : Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.		
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	e		
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 dust, mist, spray. 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 o 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		

Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use. Hygroscopic. 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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9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 150 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
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	: 402.332 g/mol

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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

Other information 9.2.

No additional information available

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 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

: 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

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

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SECTION 13: Disposal consideration	ons	
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 live	censed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.	
SECTION 14: Transport information	h	
Department of Transportation (DOT)		
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	on .	
15.1. US Federal regulations		
All components of this product are listed, or e Substances Control Act (TSCA) inventory exc	xcluded from listing, on the United States Environmental cept for:	Protection Agency Toxic
S-(Trifluoromethyl)dibenzothionhenium triflate	CAS No 129946-88-9	100%

S-(Trifluoromethyl)dibenzothiophenium triflate	CAS No 129946-88-9	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		

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

S-(Trifluorom	nethyl)dibenzothiophenium triflate (129946-88-9)
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 Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
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	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
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.