

Triphenylsulfonium triflate Safety Data Sheet 6670310 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/05/2017 Version: 1.0

I. Identification	
oduct form	: Substance
bstance name	: Triphenylsulfonium triflate
AS No	: 66003-78-9
oduct code	: 6670-3-10
rmula	: C19H15F3O3S2
nonyms	: TPST; Triphenylsulfonium trifluoromethanesulfonate
her means of identification	: MFCD01940916
2. Relevant identified uses of the	substance or mixture and uses advised against
e of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
3. Details of the supplier of the sa	afety data sheet
nQuest Laboratories, Inc. O. Box 309 achua, FL 32615 - United States of Amer (386) 462-0788 - F (386) 462-7097 <u>o@synquestlabs.com</u> - <u>www.synquestlab</u>	
Emergency telephone number     nergency number	: (844) 523-4086 (3E Company - Account 10069)
assification (GHS-US) in Irrit. 2 H315 - Causes skin irritation e Irrit. 2A H319 - Causes serious eye OT SE 3 H335 - May cause respirato	irritation
in Irrit. 2 H315 - Causes skin irritation e Irrit. 2A H319 - Causes serious eye	irritation
in Irrit. 2 H315 - Causes skin irritation e Irrit. 2A H319 - Causes serious eye OT SE 3 H335 - May cause respirato II text of H-phrases: see section 16 2. Label elements HS-US labeling Izard pictograms (GHS-US)	irritation
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in Irrit. 2 H315 - Causes skin irritation e Irrit. 2A H319 - Causes serious eye OT SE 3 H335 - May cause respirato II text of H-phrases: see section 16 2. Label elements HS-US labeling Izard pictograms (GHS-US)	irritation bry irritation : : : : : : : : : : : : : : : : : : :

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1	Other hazards				
o addit	tional information available				
2.4. Unknown acute toxicity (GHS US)					
lot appl	licable				
ECT	ON 3: Composition/informatio	n <mark>on i</mark> n	gredients		
.1.	Substance				
Substan	ce type	: Mono	o-constituent		
Name			Product identifier	%	Classification (GHS-US)
Triphen (Main co	ylsulfonium triflate nstituent)		(CAS No) 66003-78-9	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text	of H-phrases: see section 16		1		i
.2.	Mixture				
lot appl	licable				
ECT	ON 4: First aid measures				
.1.	Description of first aid measures				
irst-aid	measures general		se of accident or if you feel unwell, seek e possible). Move the affected personnel		
irst-aid	measures after inhalation		ove person to fresh air and keep comfortar ration. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial
irst-aid	measures after skin contact	: Wasl	n with plenty of soap and water. Get med	ical advice/atter	tion.
First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lens present and easy to do. Continue rinsing. Get medical advice/attention.			attention.		
irst-aid	measures after ingestion		OT induce vomiting. Never give anything h out with water. Get medical advice/atte		unconscious person. Rinse
.2.	Most important symptoms and effect	ts, both	acute and delayed		
ymptor	ns/injuries		most important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section
.3.	Indication of any immediate medical	attentio	on and special treatment needed		
reat sy	mptomatically.				
	mptomatically. ON 5: Firefighting measures				
SECTI					
.1.	ON 5: Firefighting measures	: Alcol	nol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
.1. uitable	ON 5: Firefighting measures Extinguishing media	: Alcol appro	opriate for surrounding fire.		
.1. uitable	ON 5: Firefighting measures Extinguishing media extinguishing media Special hazards arising from the sul	: Alcol appro	opriate for surrounding fire.		
.1. uitable .2. ire haza	ON 5: Firefighting measures Extinguishing media extinguishing media Special hazards arising from the sul	: Alcol appro	opriate for surrounding fire.		
ECTI 1. uitable 2. ire haz	ON 5: Firefighting measures Extinguishing media extinguishing media Special hazards arising from the sul ard	: Alcol appro ostance : Ther	opriate for surrounding fire.		
5.1. Suitable 5.2. Fire haz	ON 5: Firefighting measures Extinguishing media extinguishing media Special hazards arising from the sul ard Advice for firefighters	: Alcof appro stance : Then : In ca : Wea	opriate for surrounding fire. or mixture mal decomposition generates: Carbon ox	ides. Phosphoru n combination v	us oxides. Sulfur oxides.
.1. Guitable .2. Gire haz .3. Protection	ON 5: Firefighting measures Extinguishing media extinguishing media Special hazards arising from the sul ard Advice for firefighters ing instructions on during firefighting ON 6: Accidental release meas	: Alcoh appro stance : Then : In ca : Wea appa sures	opriate for surrounding fire. or mixture mal decomposition generates: Carbon ox se of fire: Evacuate area. r gas tight chemically protective clothing i ratus. For further information refer to sec	ides. Phosphoru n combination v	us oxides. Sulfur oxides.
.1. uitable .2. .3. irefight rotectio	ON 5: Firefighting measures Extinguishing media extinguishing media Special hazards arising from the sul ard Advice for firefighters ing instructions on during firefighting ON 6: Accidental release meas Personal precautions, protective eq	: Alcol appro stance : Thern : In ca : Wea appa sures uipment	opriate for surrounding fire. or mixture mal decomposition generates: Carbon ox se of fire: Evacuate area. r gas tight chemically protective clothing i ratus. For further information refer to sec and emergency procedures	ides. Phosphoru n combination v tion 8: "Exposur	us oxides. Sulfur oxides. with self contained breathing e controls/personal protection".
.1. uitable .2. .3. irefight rotectio	ON 5: Firefighting measures Extinguishing media extinguishing media Special hazards arising from the sul ard Advice for firefighters ing instructions on during firefighting ON 6: Accidental release meas	: Alcol appro stance : Thern : In ca : Wea appa sures uipment	opriate for surrounding fire. or mixture mal decomposition generates: Carbon ox se of fire: Evacuate area. r gas tight chemically protective clothing i ratus. For further information refer to sec	ides. Phosphoru n combination v tion 8: "Exposur	us oxides. Sulfur oxides. with self contained breathing e controls/personal protection".
2. ire haz 3. irefight rotection ECTI 1. eneral	ON 5: Firefighting measures Extinguishing media extinguishing media Special hazards arising from the sul ard Advice for firefighters ing instructions on during firefighting ON 6: Accidental release meas Personal precautions, protective eq	: Alcol appro stance : Thern : In ca : Wea appa sures uipment	opriate for surrounding fire. or mixture mal decomposition generates: Carbon ox se of fire: Evacuate area. r gas tight chemically protective clothing i ratus. For further information refer to sec and emergency procedures	ides. Phosphoru n combination v tion 8: "Exposur	us oxides. Sulfur oxides. with self contained breathing e controls/personal protection".
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ECTI Suitable Suitable S.2. Sirefight Protection SECTI S.1. Seneral S.1.1. Seneral S.1.1. Seneral S.1.1. Seneral S.1.1. Suitable	ON 5: Firefighting measures Extinguishing media extinguishing media Special hazards arising from the sul ard Advice for firefighters ing instructions on during firefighting ON 6: Accidental release meas Personal precautions, protective eq measures For non-emergency personnel ncy procedures	: Alcoh appro stance : Then : In ca : Wea appa sures uipment : Evac : Only : Do n	opriate for surrounding fire. or mixture mal decomposition generates: Carbon ox se of fire: Evacuate area. r gas tight chemically protective clothing i ratus. For further information refer to sec and emergency procedures uate unnecessary personnel. Ensure ade	ides. Phosphoru n combination v tion 8: "Exposur equate air ventila e protective equip	us oxides. Sulfur oxides. vith self contained breathing e controls/personal protection". ation. Do not breathe dust. uipment may intervene.

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

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6.3. Methods and material for co	Methods and material for containment and cleaning up		
For containment	: Stop leak if safe to do so.		
Methods for cleaning up	: 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 stor	age		
7.1. Precautions for safe handlin	g		
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 bygiene and safety procedures. Do not eat, drink or		

Hygiene measure	: 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. Condi	s for safe storage, including any incompatibilities
Technical measu	: Comply with applicable regulations.
Storage condition	: Keep container closed when not in use.
Incompatible ma	s : 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. Information on basic physical a	nd chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 132 - 134 °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	: 412.45 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

#### 9.2. **Other information**

No additional information available

SECTION 10: Stability and rea	ctivity				
10.1. Reactivity	0.1. Reactivity				
No additional information available					
10.2. Chemical stability					
The product is stable at normal handling	and storage conditions.				
10.3. Possibility of hazardous rea	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	0.5. Incompatible materials				
Acids. Strong oxidizing agents.					
10.6. Hazardous decomposition p	products				
Under normal conditions of storage and fire, see Section 5.	use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of				
<b>SECTION 11: Toxicological in</b>	formation				
11.1. Information on toxicological					
Acute toxicity	: Not classified				
Skin corrosion/irritation	: Causes skin irritation.				
Serious eye damage/irritation	: Causes serious eye irritation.				
Despiratory or alin appointization	Not closefied				

	•
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	· Not classified

#### Specific target organ toxicity (repeated : Not classified exposure) Aspiration hazard : Not classified

SECT	<b>ION 12: Ecological informatio</b>	n		
12.1.	Toxicity			
No add	itional information available			
12.2.	Persistence and degradability			
No add	itional information available			
12.3.	Bioaccumulative potential			
No add	itional information available			
12.4.	Mobility in soil			
No add	itional information available			
12.5.	Other adverse effects			
No add	itional information available			
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<b>SECTION 13: Disposal considera</b>	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.
<b>SECTION 14: Transport informat</b>	ion
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 informa	ation

Listed on the United States TSCA (Toxic Substances Control Act) inventory	
P - P - indicates a commenced PMN substance.	

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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

Triphenylsulfonium triflate (66003-78-9)

Listed on the Canadian NDSL (Non-Domestic Substances List)

### **EU-Regulations**

No additional information available

#### National regulations

### Triphenylsulfonium triflate (66003-78-9)

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