

Hexafluoroisopropyl tosylate Safety Data Sheet 6664306 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/27/2016 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: Hexafluoroisopropyl tosyla	te	
CAS No	: 67674-48-0		
Product code	: 6664-3-06		
Formula	: C10H8F6O3S		
Synonyms		an-2-yl 4-methylbenzene-1-sulfonate	
Other means of identification	: MFCD00039262		
1.2. Relevant identified uses of the su	bstance or mixture and uses a	dvised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substance Scientific research and de		
1.3. Details of the supplier of the safe	ty data 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	//- <b>-</b>		
Emergency number	: (844) 523-4086 (3E Comp	any - Account 10069)	
SECTION 2: Hazard(s) identificatio	n		
2.1. Classification of the substance or	r mixture		
Classification (GHS-US)			
Eye Irrit. 2AH319 - Causes serious eye irrRepr. 2H361 - Suspected of damaginSTOT SE 3H335 - May cause respiratoryFull text of H-phrases: see section 16	g fertility or the unborn child		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	GHS07 GHS0		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H315 - Causes skin irritati H319 - Causes serious ey H335 - May cause respira	e irritation	
Precautionary statements (GHS-US)	P202 - Do not handle until P261 - Avoid breathing du P264 - Wash skin thoroug P271 - Use only outdoors P280 - Wear protective glo P302+P352 - If on skin: W P304+P340 - If inhaled: R P305+P351+P338 - If in e lenses, if present and eas P308+P313 - If exposed o P312 - Call a POISON CE P321 - Specific treatment	<ul> <li>P201 - Obtain special instructions before use</li> <li>P202 - Do not handle until all safety precautions have been read and understood</li> <li>P261 - Avoid breathing dust, mist, spray</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>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact</li> <li>lenses, if present and easy to do. Continue rinsing</li> <li>P308+P313 - If exposed or concerned: Get medical advice/attention</li> <li>P312 - Call a POISON CENTER or doctor/physician if you feel unwell</li> <li>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> </ul>	
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- P337+P313 If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant Other hazards No additional information available Unknown acute toxicity (GHS US) Not applicable SECTION 3: Composition/information on ingredients Substance Substance type : Mono-constituent Product identifier % **Classification (GHS-US)** Hexafluoroisopropyl tosylate (CAS No) 67674-48-0 <= 100 Skin Irrit. 2, H315 (Main constituent) Eye Irrit. 2A, H319 Repr. 2, H361 STOT SE 3, H335 Full text of H-phrases: see section 16 **Mixture** Not applicable **SECTION 4: First aid measures Description of first aid measures** First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area. Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial First-aid measures after inhalation respiration. Get medical advice/attention. First-aid measures after skin contact Wash with plenty of soap and water. Get medical advice/attention. 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 water. Get medical advice/attention. Most important symptoms and effects, both acute and delayed Symptoms/injuries The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11. Indication of any immediate medical attention and special treatment needed Treat symptomatically. SECTION 5: Firefighting measures **Extinguishing media** Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire. Special hazards arising from the substance or mixture : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Sulfur oxides. Fire hazard
- 5.3. Advice for firefighters **Firefighting instructions** : In case of fire: Evacuate area. Wear gas tight chemically protective clothing in combination with self contained breathing Protection during firefighting apparatus. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 6: Accidental release measures			
6.1.	Personal precautions, protective equipment and emergency procedures		
General n	neasures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust. Do not breathe gas, fumes, vapor or spray.	
6.1.1.	For non-emergency personnel		
Emergency procedures :		: Only qualified personnel equipped with suitable protective equipment may intervene.	

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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".
6.2. Environmental precautions	
Avoid release to the environment. Notify a	uthorities if product enters sewers or public waters.
6.3. Methods and material for cont	ainment and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	Minimize generation of dust. 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	
<b>SECTION 7: Handling and stora</b>	qe
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, 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, ir	cluding any incompatibilities
Technical measures	: 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/	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 chem	ical properties
9.1. Information on basic physical	
Physical state	: Solid
	· Low melting solid
Appearance	: Low melting solid. : No data available
Appearance Color	: No data available
Appearance Color Odor	<ul><li>No data available</li><li>No data available</li></ul>
Appearance Color Odor Odor threshold	<ul> <li>No data available</li> <li>No data available</li> <li>No data available</li> </ul>
Appearance Color Odor Odor threshold pH	<ul> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> </ul>
Appearance Color Odor Odor threshold pH Melting point	<ul> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>39 - 40 °C</li> </ul>
Appearance Color Odor Odor threshold pH Melting point Freezing point	<ul> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>39 - 40 °C</li> <li>No data available</li> </ul>
Appearance Color Odor Odor threshold oH Melting point	<ul> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>39 - 40 °C</li> </ul>

Relative evaporation rate (butyl acetate=1)

Flash point

: No data available

: No data available

: No data available

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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	: 322.22 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

### 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
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	: Suspected of damaging fertility or the unborn child.
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 additio	No additional information available				
12.2.	Persistence and degradability				
No additional information available					
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12.3.	Bioaccumulative potential
No addit	ional information available
12.4.	Mobility in soil
No addit	ional information available

12.5. Other adverse effects

No additional information available

#### SECTION 13: Disposal considerations Waste treatment methods 13.1. Waste treatment methods

#### Waste disposal recommendations Additional information

: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Recycle the material as far as possible.

#### **SECTION 14: Transport information**

#### **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

15.1. US Federal regulations

Hexafluoroisopropyl tosylate (67674-48-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

#### Hexafluoroisopropyl tosylate (67674-48-0)

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

#### **EU-Regulations**

No additional information available

#### **National regulations**

Hexafluoroisopropyl tosylate (67674-48-0)		
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**

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Full tex	t of H-phrases:		
	Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A
	Repr. 2		Reproductive toxicity Category 2
	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
	H361		Suspected of damaging fertility or the unborn child
given.NFPA fire hazard: 0 - Materials that will notNFPA reactivity: 0 - Normally stable, even		residual injury even thoug given. : 0 - Materials that will not l	h prompt medical attention was burn. under fire exposure conditions,
	I Rating		
			nporary or minor injury may occur
Flammability : 0 Minimal Hazard - Ma		: 0 Minimal Hazard - Mate	rials that will not burn
			erials that are normally stable, even under fire conditions, and will NOT rize, 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.