

# Tris(3-fluoropropyl) phosphate Safety Data Sheet 617531A according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/12/2019 Version: 1.0

SECTION 1: Identification 1.1. Identification		
Product form	: Substance	
Substance name		
CAS No	: Tris(3-fluoropropyl) phosphate : 1346521-40-1	
Product code	: 6175-3-1A	
Formula	: C9H18F3O4P	
Other means of identification	: MFCD20489415	
	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 sa	afety 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	<u>bs.com</u>	
1.4. Emergency telephone number		
Emergency number	: (844) 523-4086 (3E Company - Account 10069)	
SECTION 2: Hazard(s) identificat	tion	
2.1. Classification of the substance		
Classification (GHS-US)		
Resp. Sens. 1 H334 - May ca		
GHS-US labeling		
GHS-US labeling	: GHS07 GHS08	
GHS-US labeling Hazard pictograms (GHS-US)	: GHS07 CHS07 CHS08 CHS08	
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GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	<ul> <li>Danger</li> <li>H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled</li> </ul>	

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	P32 P33 P33 P33 P34 P36 P40 P40	<ul> <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>P330 - Rinse mouth</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention</li> <li>P342+P311 - If experiencing respiratory symptoms: Call a poison center/doctor/</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to an approved waste disposal plant</li> </ul>		
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informati	on on i	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
Tris(3-fluoropropyl) phosphate (Main constituent)		(CAS No) 1346521-40-1	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 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	whe	ase of accident or if you feel unwell, seek re possible). Move the affected personne	l away from the	contaminated area.
First-aid measures after inhalation	resp	nove person to fresh air and keep comford iration. Get immediate medical advice/att	ention.	
First-aid measures after skin contact		Wash with plenty of soap and water. Get immediate medical advice/attention.		
First-aid measures after eye contact	pres	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 anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.		
4.2. Most important symptoms and eff	ects, both	acute and delayed		
Symptoms/injuries		most important known symptoms and eff and/or in section 11.	ects are describ	ed in the labelling (see section
4.3. Indication of any immediate medic	al attenti	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	owder. Water s	pray. Use extinguishing media
5.2. Special hazards arising from the s	ubstance	or mixture		
Fire hazard		mal decomposition generates: Carbon or	kides. Hydrogen	fluoride. Phosphorus oxides.
Explosion hazard		of explosion if heated under confinemen ainers.	t. Use water spr	ay or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions	: In ca	ase of fire: Evacuate area. Fight fire remo	tely due to the r	isk of explosion.
Protection during firefighting		r gas tight chemically protective clothing aratus. For further information refer to see		

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SECTION 6: Accidental release measures				
	<ul> <li>Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.</li> </ul>			
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 authorities	s if product enters sewers or public waters.			
6.3. Methods and material for containment	t and cleaning up			
	Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.			
	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.			
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 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.			
<b>SECTION 9: Physical and chemical pr</b>	operties			
9.1. Information on basic physical and chemical properties				
Physical state : Liquid				
•	No data available			

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рН	:	No data available	
Melting point	:	No data available	
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	:	278.2058 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	

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

No additional information available

SECTIC	ON 10: Stability and reactivity
10.1.	Reactivity
No additio	onal information available
10.2.	Chemical stability
The produ	uct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No additio	onal information available
10.4.	Conditions to avoid
Keep awa	ay from heat, sparks and flame.
10.5.	Incompatible materials
Strong ox	xidizing agents.
10.6.	Hazardous decomposition products
Under nor fire, see S	rmal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of Section 5.
SECTIO	DN 11: Toxicological information

11.1.	Information on toxicological effects	
	-	
Acute to:	xicity	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.
Skin cori	rosion/irritation	: Causes skin irritation.

Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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

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Aspirati	on hazard	: Not classified
SECT	ON 12: Ecological information	
12.1.	Toxicity	
No addi	tional information available	
12.2.	Persistence and degradability	
No addi	tional information available	
12.3.	Bioaccumulative potential	
No addi	tional information available	
12.4.	Mobility in soil	
No addi	tional information available	
12.5.	Other adverse effects	
No addi	tional information available	

<b>SECTION 13: Disposal consideration</b>	S
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 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:

Tris(3-fluoropropyl) phosphate	CAS No 1346521-40-1	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**

No additional information available

#### 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

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#### **SECTION 16: Other information**

Full	text	of	H-p	hrases:
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Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Resp. Sens. 1	Respiratory sensitisation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation

#### NFPA health hazard

NFPA fire hazard

NFPA reactivity

: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

: 1 - Must be preheated before ignition can occur.
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: 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	: 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)
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.