

**3'-Fluoro-L-tyrosine** Safety Data Sheet 4757317 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/31/2018 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: 3'-Fluoro-L-tyrosine	
CAS No	: 7423-96-3	
Product code	: 4757-3-17	
Formula	: C9H10FNO3	
Synonyms	: H-Tyr(3-F)-OH	
Other means of identification	: MFCD00002607	
1.2. Relevant identified uses of the sub-	tance 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	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	<u>n</u>	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)	
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or r	ixture	
Classification (GHS-US)		
Eye Irrit. 2AH319 - Causes serious eSTOT SE 3H335 - May cause respirFull text of H-phrases: see section 16		
2.2. Label elements		
GHS-US labeling		
GHS-US labeling	GHS06 GHS07	
GHS-US labeling Hazard pictograms (GHS-US)	_	
	: GHS06 GHS07 : Danger : H301 - Toxic if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation	
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	<ul> <li>Danger</li> <li>H301 - Toxic if swallowed</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> </ul>	a ye protection/face protection in center/doctor/ nd water and keep comfortable for breathing in water for several minutes. Remove contact in if you feel unwell d instructions on this label)

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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)** Acute Tox. 3 (Oral), H301 3'-Fluoro-L-tyrosine (CAS No) 7423-96-3 <= 100 (Main constituent) Skin Irrit. 2, H315 Eye Irrit. 2A, H319 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 immediate medical advice/attention. First-aid measures after skin contact Wash with plenty of soap and water. Get immediate 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 immediate 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 immediate 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

Fire hazard	: Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.
5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area.
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".

SECTIO	ON 6: Accidental release meas	sures
6.1.	Personal precautions, protective equ	ipment and emergency procedures
General r	neasures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.
6.1.1.	For non-emergency personnel	
Emergen	cy procedures	: 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.         5.3.       Methods and material for containment and cleaning up         For containment       : Stop leak if safe to do so.         Vethods for cleaning up       : Stop leak if safe to do so.         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 8: "Exposure controls/personal protection".         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         Fechnical measures       : Comply with applicable regulations.         Storage conditions       : Keep container closed when not in use. Air sensitive. Keep contents under inert gas.	6.1.2. For emergency respon	ders
Avoid release to the environment. Notify authorities if product enters sewers or public waters.       S.3.       Methods and material for containment and cleaning up         For containment       :       Stop leak if safe to do so.         Wethods 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".         S.4.       Reference to other sections       *         No additional information available       *       For on handle until all safety precautions have been read and understood. Ensure good protective equipment. Avoid contact with skin and eyes.         Precautions for safe handling       :       Do not handle until all safety precautions have been read and understood. Ensure good protective equipment. Avoid contact with skin and eyes.         Hygiene measures       :       Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink c smoke when using this product. Always wash hands after handling the product.         7.2.       Conditions for safe storage, including any incompatibilities         Fechnical measures       :       Comply with applicable regulations.         Storage conditions       :       Keep container closed when not in use. Air sensitive. Keep contents under inert gas.         neompatible materials       :       Refer to Section 10 on Incompatib	Protective equipment	
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ncompatible materials : Refer to Section 10 on Incompatible Materials.	Technical measures	: Comply with applicable regulations.
	Storage conditions	: Keep container closed when not in use. Air sensitive. Keep contents under inert gas.
Storage area : Store in dry, cool, well-ventilated area.	Incompatible materials	: Refer to Section 10 on Incompatible Materials.
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### **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 and	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
PH	: No data available
Melting point	: 260 - 261 °C (dec.)
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

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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	: 199.179 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

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No add	itional information available
10.2.	Chemical stability
The pro	oduct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	itional information available
10.4.	Conditions to avoid
Keep a	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	acids. 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

: Oral: Toxic if swallowed.

3'-Fluoro-L-tyrosine (7423-96-3)	
ATE US (oral)	100.000 mg/kg body weight
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

SECTIO	DN 12: Ecological information
12.1.	Toxicity
No additio	onal information available
12.2.	Persistence and degradability
No additio	onal information available

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12.3.	Bioaccumulative potential		
No add	itional information available		
12.4.	Mobility in soil		
	itional information available		
No auu			
12.5.	Other adverse effects		
No add	itional information available		

### **SECTION 13: Disposal considerations**

#### Waste treatment methods 13.1

Waste treatment methods Waste disposal recommendations

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

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)

: UN2811

: UN2811 Toxic solids, organic, n.o.s., 6.1, II

- : Toxic solids, organic, n.o.s.
- 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison



- : II Medium Danger
- : 212
- : 242
- : G Identifies PSN requiring a technical name

: IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle. IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner. T3 - 2.65 178.274(d)(2) Normal..... 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 153 DOT Quantity Limitations Passenger aircraft/rail : 25 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 100 kg CFR 175.75)

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: No supplementary information available.
· 2811
• 2811
· 2811
- 2811
. 2011
: TOXIC SOLID, ORGANIC, N.O.S.
: 6.1 - Toxic substances
: II - substances presenting medium danger
: 2811
: Toxic solid, organic, n.o.s.
: 6.1 - Toxic Substances
: II - Medium Danger
: ī

#### 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:		
3'-Fluoro-L-tyrosine	CAS No 7423-96-3	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**

3'-Fluoro-L-tyrosine (7423-96-3)
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:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
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
H301	Toxic if swallowed
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	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO 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.