

5-Fluoroorotic acid, monohydrate

Safety Data Sheet 4H53308 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/20/2019 Version: 1.0

SECTION 1: Identification 1.1. Identification	
Product form	: Substance
Substance name	: 5-Fluoroorotic acid, monohydrate
CAS No	: 220141-70-8
Product code	: 4H53-3-08
Formula	: C5H5FN2O5
Synonyms	: 5-FOA; 5-Fluoroorotate; 5-Fluoro-1,2,3,6-tetrahydro-2,6-dioxo-4-pyrimidine
Other means of identification	: MFCD00150658
I.2. Relevant identified uses of the subs	stance or mixture and uses advised against
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
I.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	<u>m</u>
I.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or m	nixture
Classification (GHS-US)	
Skin Irrit. 2H315 - Causes skin irritatEye Irrit. 2AH319 - Causes serious eSTOT SE 3H335 - May cause respiratFull text of H-phrases: see section 16	eye irritation
2.2. Label elements	
GHS-US labeling	
•	GHS07
Hazard pictograms (GHS-US)	GHS07
Hazard pictograms (GHS-US) Signal word (GHS-US)	 GHS07 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US) Precautionary statements (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation

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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			
2.3.	Other hazards				
No ad	ditional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not ap	plicable				
SEC	TION 3: Composition/information	on ir	gredients		
3.1.	Substance				
Substa	ance type	: Mono	o-constituent		
Nam	e		Product identifier	%	Classification (GHS-US)
	proorotic acid, monohydrate constituent)		(CAS No) 220141-70-8	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full te	xt of H-phrases: see section 16				
3.2.	Mixture				
Not ap	plicable				
SEC	TION 4: First aid measures				
4.1.	Description of first aid measures				
First-a	id measures general		se of accident or if you feel unwell, se e possible). Move the affected person		
First-a	id measures after inhalation		ove person to fresh air and keep com ration. Get immediate medical advice		thing. If not breathing, give artificial
First-aid measures after skin contact : Wash with plenty of soap and water. Get immediate medical advice/attention.					al advice/attention.
First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lense 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 effects	s, both	acute and delayed		
Sympt	oms/injuries	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.			
4.3.	Indication of any immediate medical a	attentic	on and special treatment needed		
Treat	symptomatically.				
SEC	TION 5: Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.				r spray. Use extinguishing media
5.2. 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".					
SEC	TION 6: Accidental release measu	ures			
6.1.	6.1. Personal precautions, protective equipment and emergency procedures				
Gener	General measures : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.				

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6.1.2. For emergency respond	ers
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 precauti	ons
Avoid release to the environment. N	otify authorities if product enters sewers or public waters.
6.3. Methods and material for	r 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 sect	ons
	ons
No additional information available	
No additional information available SECTION 7: Handling and	storage
No additional information available SECTION 7: Handling and 7.1. Precautions for safe ha	storage
No additional information available SECTION 7: Handling and 7.1. Precautions for safe han Precautions for safe handling	storage ndling : 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
No additional information available SECTION 7: Handling and 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures	storage indling : 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. : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or
No additional information available SECTION 7: Handling and 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe stor	storage ndling : 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. : 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.
No additional information available SECTION 7: Handling and 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures	storage ndling : 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. : 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. age, including any incompatibilities
No additional information available SECTION 7: Handling and 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe stor Technical measures	storage nolling : 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. : 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. age, including any incompatibilities : Comply with applicable regulations.

Storage area : Store in dry, well-ventilated area.

SECTION 8: Exposure controls/personal 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 Appropriate engineering controls 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. : In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Respiratory protection 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
рН	: No data available
Melting point	: 255 (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

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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	: 192.102 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
Lange ways from here to another and there a
Keep away from heat, sparks and flame.
10.5. Incompatible materials
Strong golds. Strong goldzing goots
Strong acids. 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: Harmful if swallowed.			
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 Specific target organ toxicity (single exposure)	Not classifiedMay cause respiratory irritation.			

Specific target organ toxicity (repeated : Not classified exposure)

Aspiration hazard	:	Not classified
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SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	itional information available
12.2.	Persistence and degradability
No addi	itional information available

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No additional information available 12.4. Mobility in soil No additional information available 12.5. Other adverse effects	12.3.	Bioaccumulative potential		
No additional information available	No addit	tional information available		
No additional information available	12.4.	Mobility in soil		
12.5. Other adverse effects	No addi			
12.5. Other adverse effects				
	12.5.	Other adverse effects		

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

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:

5-Fluoroorotic acid, monohydrate	CAS No 220141-70-8	100%	
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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

SECTION 16: Other information

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Full tex	t of H-phrases:		
	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4
	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
	H302		Harmful if swallowed
	H315		Causes skin irritation
	H319		Causes serious eye irritation
	H335		May cause respiratory irritation
NFPA 1	nealth hazard iire hazard reactivity	given. : 0 - Materials that will not b	h prompt medical attention was ourn. under fire exposure conditions,
HMIS I	II Rating		
Health : 3 Serious Hazard - Maj given			or injury likely unless prompt action is taken and medical treatment is
Flamm	ability	: 0 Minimal Hazard - Mate	rials that will not burn
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire condi react with water, polymerize, decompose, condense, or self-react. Non-Explo			

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.