

Ethyl 6-fluoro-4-hydroxyquinoline-3-carboxylate Safety Data Sheet 4H563V7 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/13/2016 Version: 1.0

SECTION 1: Identification				
1.1. Identification				
Product form	: Substance			
Substance name	Ethyl 6-fluoro-4-hydroxyquinoline-3-carboxylate			
CAS No	: 318-35-4			
Product code	: 4H56-3-V7			
Formula	C12H10FNO3			
Synonyms	: 3-(Ethoxycarbonyl)-6-fluoro-4-hydroxyquinoline; 3-(Ethoxycarbonyl)-6-fluoro-4-hydroxy-1- azanaphthalene			
Other means of identification	: MFCD00173345			
	ince 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 da	ata sneet			
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				
Emergency number	: (844) 523-4086 (3E Company - Account 10069)			
SECTION 2: Hazard(s) identification				
2.1. Classification of the substance or mix	(ture			
Classification (GHS-US)				
Skin Irrit. 2 H315 - Causes skin irritation				
Eye Irrit. 2A H319 - Causes serious eye irritatio				
STOT SE 3 H335 - May cause respiratory irrita	tion			
Full text of H-phrases: see section 16				
2.2. Label elements				
GHS-US labeling	· •			
GHS-US labeling				
GHS-US labeling				
GHS-US labeling				
GHS-US labeling Hazard pictograms (GHS-US)	GHS07			
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: Warning			
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	:Warning :H315 - Causes skin irritation			
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation			
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning 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)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray 			
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area 			
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GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse 			
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P501 - Dispose of contents/container to an approved waste disposal plant

2.3.					
	Other hazards				
	itional information available				
2.4. Unknown acute toxicity (GHS US) Not applicable					
SECT	ION 3: Composition/information	on in	gredients		
3.1.	Substance				
Substance type : Mono-constituent					
Name			Product identifier	%	Classification (GHS-US)
	-fluoro-4-hydroxyquinoline-3-carboxylate		(CAS No) 318-35-4	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text	t of H-phrases: see section 16				
3.2.	Mixture				
Not app					
SECT	ION 4: First aid measures				
4.1.	Description of first aid measures				
First-aid	d measures general		e of accident or if you feel unwell, seek r possible). Move the affected personnel		
First-aid	d measures after inhalation		ve person to fresh air and keep comforta ation. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial
First-aid			with plenty of soap and water. Get medi		
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.					
First-aid	d measures after ingestion		OT induce vomiting. Never give anything out with water. Get medical advice/atter		unconscious person. Rinse
4.2.	Most important symptoms and effects	, both a	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.					
4.3.	Indication of any immediate medical a	ttentio	and special treatment needed		
Treat sy	mptomatically.				
SECT	ION 5: Firefighting measures				
	Extinguishing media				
5.1.	Extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.1. Suitable	Extinguishing media	appro	priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.1. Suitable 5.2.	Extinguishing media e extinguishing media : Special hazards arising from the subs	appro tance o	priate for surrounding fire.		
5.1. Suitable 5.2. Fire haz	Extinguishing media e extinguishing media : Special hazards arising from the subs	appro tance o	priate for surrounding fire.		
5.1. Guitable 5.2. Fire haz	Extinguishing media e extinguishing media Special hazards arising from the subs zard Advice for firefighters	appro tance c	priate for surrounding fire.		
5.1. Suitable 5.2. Fire haz 5.3. Firefigh	Extinguishing media e extinguishing media Special hazards arising from the subs eard Advice for firefighters ting instructions	appro tance o Therm In cas Wear	priate for surrounding fire. or mixture nal decomposition generates: Carbon ox	ides. Hydrogen n combination w	fluoride. Nitrogen oxides.
5.1. Suitable 5.2. Fire haz 5.3. Firefigh Protecti	Extinguishing media e extinguishing media Special hazards arising from the subs zard Advice for firefighters ting instructions on during firefighting ION 6: Accidental release measu	appro tance c Therm In cas Wear appar Ires	priate for surrounding fire. or mixture hal decomposition generates: Carbon oxi e of fire: Evacuate area. gas tight chemically protective clothing in atus. For further information refer to sect	ides. Hydrogen n combination w	fluoride. Nitrogen oxides.
5.1. Suitable 5.2. Fire haz 5.3. Firefigh Protecti SECT 5.1.	Extinguishing media e extinguishing media Special hazards arising from the substance zard Advice for firefighters ting instructions on during firefighting ION 6: Accidental release measu Personal precautions, protective equi	appro tance c Therm In cas Wear appar Ires pment a	priate for surrounding fire. or mixture hal decomposition generates: Carbon oxi- e of fire: Evacuate area. gas tight chemically protective clothing in atus. For further information refer to sect and emergency procedures	ides. Hydrogen n combination w ion 8: "Exposure	fluoride. Nitrogen oxides. with self contained breathing e controls/personal protection".
5.1. Suitable 5.2. Fire haz 5.3. Firefigh Protecti SECT 5.1.	Extinguishing media e extinguishing media Special hazards arising from the substance zard Advice for firefighters ting instructions on during firefighting ION 6: Accidental release measu Personal precautions, protective equi	appro tance c Therm In cas Wear appar Ires pment a	priate for surrounding fire. or mixture hal decomposition generates: Carbon oxi e of fire: Evacuate area. gas tight chemically protective clothing in atus. For further information refer to sect	ides. Hydrogen n combination w ion 8: "Exposure	fluoride. Nitrogen oxides. with self contained breathing e controls/personal protection".
5.1. Suitable 5.2. Fire haz 5.3. Firefigh Protecti SECT 6.1. General	Extinguishing media e extinguishing media Special hazards arising from the substance zard Advice for firefighters ting instructions on during firefighting ION 6: Accidental release measu Personal precautions, protective equi	appro tance c Therm In cas Wear appar Ires pment a	priate for surrounding fire. or mixture hal decomposition generates: Carbon oxi- e of fire: Evacuate area. gas tight chemically protective clothing in atus. For further information refer to sect and emergency procedures	ides. Hydrogen n combination w ion 8: "Exposure	fluoride. Nitrogen oxides. with self contained breathing e controls/personal protection".
5.1. Suitable 5.2. Fire haz 5.3. Firefigh Protecti SECT 6.1. General 6.1.1.	Extinguishing media e extinguishing media Special hazards arising from the substance zard Advice for firefighters ting instructions on during firefighting ION 6: Accidental release measu Personal precautions, protective equi I measures For non-emergency personnel	appro tance c Therm In cas Wear appar Ires pment a Evacu	priate for surrounding fire. or mixture hal decomposition generates: Carbon oxi- e of fire: Evacuate area. gas tight chemically protective clothing in atus. For further information refer to sect and emergency procedures	ides. Hydrogen n combination w ion 8: "Exposure quate air ventila	fluoride. Nitrogen oxides. with self contained breathing e controls/personal protection".

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

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6.3. 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 storage				
7.1. Precautions for safe handling				
7.1. Frecautions for sale 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, mist, spray. 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	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/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 ar	d chemical properties
Physic	cal state	: Solid
Color		: No data available
Odor		: No data available
Odor	threshold	: No data available
pН		: No data available
Meltin	ng point	: 320 - 323 °C
Freez	ring point	: No data available
Boiling	g point	: No data available
Flash	point	: No data available
Relati	ive evaporation rate (butyl acetate=1)	: No data available
Flamn	mability (solid, gas)	: No data available
Explo	sion limits	: No data available
Explo	sive properties	: No data available
Oxidiz	zing properties	: No data available
Vapor	r pressure	: No data available
Relati	ive density	: No data available
Relati	ive vapor density at 20 °C	: No data available
Molec	cular mass	: 235.21 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

SECTIO	N 10: Stability and reactivity
10.1. F	Reactivity
No additior	nal information available
10.2. C	Chemical stability
The produc	ct is stable at normal handling and storage conditions.
10.3. F	Possibility of hazardous reactions
No addition	nal information available
10.4. C	Conditions to avoid
Keep away	/ from heat, sparks and flame.
10.5. l	ncompatible materials
Strong oxic	dizing agents.
10.6. H	Hazardous decomposition products
Under norn fire, see Se	mal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of ection 5.
SECTIO	N 11: Toxicological information
11.1. l	nformation on toxicological effects
Acute toxic	sity : Not classified

Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified
Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	Not classifiedMay cause respiratory irritation.Not classified

SECTION 12: Ecological information 12.1. **Toxicity** No additional information available 12.2. Persistence and degradability No additional information available 12.3. **Bioaccumulative potential** No additional information available 12.4. Mobility in soil No additional information available 12.5. Other adverse effects No additional information available

Aspiration hazard

: Not classified

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SECTION 13: Disposal considera	tions	
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 informat	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 information	tion	
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:		

Substances Control Act (13CA) Inventory exception.		
Ethyl 6-fluoro-4-hydroxyquinoline-3-carboxylate	CAS No 318-35-4	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

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	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is 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.