

8-Fluoro-2,3-dihydroquinolin-4-one Safety Data Sheet 4H31384 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/03/2016 Version: 1.0

Substance name :: CAS No :: Product code :: Formula :: Synonyms :: Dther means of identification :: 1.2. Relevant identified uses of the substa Jse of the substance/mixture :: 1.3. Details of the supplier of the safety da SynQuest Laboratories, Inc. : P.O. Box 309 : Alachua, FL 32615 - United States of America : r (386) 462-0788 - F (386) 462-7097 : nfo@synquestlabs.com - www.synquestlabs.com : I.4. Emergency telephone number Emergency number : SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mix Classification (GHS-US) Acute Tox. 3 (Oral) H301 - Toxic if swallowed Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 : 2.2. Label elements GHS-US labeling :	m : (844) 523-4086 (3E Company - Account 10069) nixture I tion ye irritation
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Hazard pictograms (GHS-US) :	
	CHS06 CHS07
Signal word (GHS-US)	: Danger
,	 H301 - Toxic if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US) :	 P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P310 - If swallowed: Immediately call a poison center/doctor/ P302+P352 - If on skin: Wash with plenty of soap and water

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		P362 P403 P405	+P313 - If eye irritation persists: Get me +P364 - Take off contaminated clothing +P233 - Store in a well-ventilated place. - Store locked up - Dispose of contents/container to an ap	and wash it befo Keep container	pre reuse tightly closed
2.3.	Other hazards				
No ad	ditional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not ap	oplicable				
SEC	TION 3: Composition/information	on on in	gredients		
3.1.	Substance				
Substa	ance type	: Mono	o-constituent		
Nam	le		Product identifier	%	Classification (GHS-US)
	oro-2,3-dihydroquinolin-4-one constituent)		(CAS No) 38470-28-9	<= 100	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full te	xt of H-phrases: see section 16				
3.2.	Mixture				
-	oplicable				
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, seek e possible). Move the affected personnel		
First-a	id measures after inhalation		ove person to fresh air and keep comfort ration. Get immediate medical advice/att		ng. If not breathing, give artificial
First-a	id measures after skin contact		n with plenty of soap and water. Get imm		
First-a	id measures after eye contact		ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get		
First-a	id measures after ingestion		OT induce vomiting. Never give anything h out with water. Get immediate medical		
4.2.	Most important symptoms and effe	cts, both	acute and delayed		
Sympt	toms/injuries		nost important known symptoms and effo and/or in section 11.	ects are describ	ed in the labelling (see section
4.3.	Indication of any immediate medica	al attentio	on and special treatment needed		
Treat	symptomatically.				
SEC	TION 5: Firefighting measures				
5.1.	Extinguishing media				
Suitab	le extinguishing media		nol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	owder. Water sj	pray. Use extinguishing media
5.2.	Special hazards arising from the su	Ibstance	or mixture		
Fire ha	azard	: Ther	mal decomposition generates: Carbon o>	ides. Hydrogen	fluoride. Nitrogen oxides.
5.3.	Advice for firefighters				
Firefig	hting instructions	: In ca	se of fire: Evacuate area.		
Protec	tion during firefighting		r gas tight chemically protective clothing ratus. For further information refer to sec		
SEC	TION 6: Accidental release mea	sures			
6.1.	Personal precautions, protective e	quipment	and emergency procedures		
Gener	al measures	: Evac	uate unnecessary personnel. Ensure add	equate air ventil	ation. Do not breathe dust.

For non-emergency personnel 6.1.1. Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene.

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6.1.2. For emergency respond	lers
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	lotify authorities if product enters sewers or public waters.
6.3. Methods and material for	or 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	ions
No additional information available	
SECTION 7: Handling and	storage
7.1. Precautions for safe ha	ndling
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 stor	age, 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.
Storago orog	· Store in dry, and well wantilated area

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 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	: 125 - 127 °C
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	: 165.16 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 addi	itional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	itional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	oxidizing agents.
10.6.	Hazardous decomposition products
	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of e Section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Oral: Toxic 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	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECT	ION 12: Ecological informatic	on		
12.1.	Toxicity			
No odd	tional information available			
NU auu				
12.2.	Persistence and degradability			
	r croisteniec and degradability			
No add	tional information available			
12.3.	Bioaccumulative potential			
No odd	tional information available			
NU auu				
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Mobility in soil 12.4.

No additional information available

Other adverse effects 12.5.

No additional information available

SECTION 12: Disposal consideration	
SECTION 13: Disposal consideration	5
13.1. Waste treatment methods Waste treatment methods Waste disposal recommendations Additional information Particular Statement and State	 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 Transport document description	: UN2811 Toxic solids, organic, n.o.s., 6.1, III
UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)	 : UN2811 : Toxic solids, organic, n.o.s. : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132 : 6.1 - Poison
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)	 III - Minor Danger 213 240 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). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 153 : 100 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	No supplementary information available.
TDG	

No additional information available

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Transport by sea

UN-No. (IMDG)	: 2811
Proper Shipping Name (IMDG)	: TOXIC SOLID, ORGANIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2811
Proper Shipping Name (IATA)	: Toxic solid, organic, n.o.s.
Class (IATA)	: 6.1 - Toxic Substances
Packing group (IATA)	: III - Minor Danger

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:

8-Fluoro-2,3-dihydroquinolin-4-one CAS No 38470-28-9 100%

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:

	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

NFPA health hazard

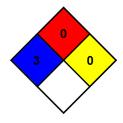
: 3 - Short exposure could cause serious temporary or		
residual injury even though prompt medical attention was		
given.		

: 0 - Normally stable, even under fire exposure conditions,

: 0 - Materials that will not burn.

and are not reactive with water.

NFPA fire hazard NFPA reactivity



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HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is 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 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.