

4,6-Dimethyl-2-hydroxy-5-nitronicotinonitrile

Safety Data Sheet 4H551U5 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/19/2015 Version: 1.0

SECTION 1: Identification 1.1. Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 4,6-Dimethyl-2-hydroxy-5-nitronicotinonitrile
CAS No	: 5407-93-2
Product code	: 4H55-1-U5
Formula	: C8H7N3O3
Synonyms	: 3-Cyano-4,6-dimethyl-2-hydroxy-5-nitropyridine
Other means of identification	: MFCD00052653
1.2. Relevant identified uses of the su	ubstance 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 safe	ety 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.	a
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 of	
Full text of H-phrases: see section 16	
2.2 Label elements	
2.2. Label elements GHS-US labeling	
GHS-US labeling	
GHS-US labeling Hazard pictograms (GHS-US)	: GHS07
2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	: GHS07 : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation

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0.0 Others have not				
2.3. Other hazards				
No additional information available 2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	on ing	jredients		
3.1. Substance				
Substance type :	Mono-	constituent		
Name		Product identifier	%	Classification (GHS-US)
4,6-Dimethyl-2-hydroxy-5-nitronicotinonitrile (Main constituent)		(CAS No) 5407-93-2	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 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 :		e of accident or if you feel unwell, seek r possible). Move the affected personnel		
First-aid measures after inhalation :		ve person to fresh air and keep comforta ation. Get medical advice/attention.	able for breathin	ng. If not breathing, give artificial
First-aid measures after skin contact :	Wash	with plenty of soap and water. Get medi	cal advice/atter	ntion.
First-aid measures after eye contact :		diately flush eyes thoroughly with water f nt and easy to do. Continue rinsing. Get		
First-aid measures after ingestion :		T induce vomiting. Never give anything out with water. Get medical advice/atter	,	unconscious person. Rinse
4.2. Most important symptoms and effects,	both a	cute and delayed		
Symptoms/injuries :		ost important known symptoms and effe nd/or in section 11.	cts are describe	ed in the labelling (see section
4.3. Indication of any immediate medical at	tention	and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the subst	ance o	r mixture		
Fire hazard :	Therm	al decomposition generates: Carbon oxi	des. Nitrogen o	oxides.
5.3. Advice for firefighters				
Firefighting instructions :	In case	e of fire: Evacuate area.		
Protection during firefighting :		gas tight chemically protective clothing in atus. For further information refer to sect		
SECTION 6: Accidental release measu	res			
6.1. Personal precautions, protective equip		ind emergency procedures		
		ate unnecessary personnel. Ensure ade	quate air ventila	ation. Do not breathe dust.
6.1.1. For non-emergency personnel				
C F	Only q	ualified personnel equipped with suitabl	e protective equ	uipment may intervene.
6.1.2. For emergency responders Protective equipment :		attempt to take action without suitable section 8: "Exposure controls/personal		ment. For further information
6.2. Environmental precautions				

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

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6.3. Me	ethods and material for containm	nent and cleaning up
For containm	nent	: 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 inform	ation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Re	eference to other sections	
No additiona	l information available	
SECTION	7: Handling and storage	
7.1. Pr	ecautions 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 dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene mea	asures	: 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. Co	onditions for safe storage, includ	ling any incompatibilities
Technical me	easures	: Comply with applicable regulations.
Storage cond	ditions	: Keep container closed when not in use.

l echnical 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 an	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	: 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	: 193.16 g/mol	

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: No data available
: No data available

9.2. **Other information**

No additional information available

SECT	ION 10: Stability and reactivity
SECT	
10.1.	Reactivity
No add	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
No addi	itional information available
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.
SECT	ION 11: Toxicological information
11.1.	Information on toxicological effects

: Not classified
: Causes skin irritation.
: Causes serious eye irritation.
: Not classified
: May cause respiratory irritation.
: Not classified
: Not classified

SEC1	TON 12: Ecological informati	on		
12.1.	Toxicity			
No add	litional information available			
12.2.	Persistence and degradability			
No add	litional information available			
12.3.	Bioaccumulative potential			
No add	litional information available			
12.4.	Mobility in soil			
No add	litional information available			
12.5.	Other adverse effects			
No add	litional information available			
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SECTION 13: Disposal consideration	C
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13.1. Waste treatment methods Waste treatment methods Waste disposal recommendations Additional information Magnetic disposal recommendations	 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 exc Substances Control Act (TSCA) inventory except	luded from listing, on the United States Environmental Protection Agency Toxic of for:

4,6-Dimethyl-2-hydroxy-5-nitronicotinonitrile CAS No 5407-93-2	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 occurFlammability: 0 Minimal Hazard - Materials that will not burnPhysical: 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.		
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	NFPA health hazard	incapacitation or possible residual injury unless prompt
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. HMIS III Rating	NFPA fire hazard	: 0 - Materials that will not burn.
Health: 2 Moderate Hazard - Temporary or minor injury may occurFlammability: 0 Minimal Hazard - Materials that will not burnPhysical: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT	NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions,
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	HMIS III Rating	
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT	Health	: 2 Moderate Hazard - Temporary or minor injury may occur
	Flammability	: 0 Minimal Hazard - Materials that will not burn
	Physical	

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.