

## Safety Data Sheet 4H5619R

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/20/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
	: Substance
Substance name	: 1-Hydroxy-2-phenyl-1,5,6,7-tetrahydro-4H-benzimidazol-4-one
CAS No	: 257869-87-7
Product code	: 4H56-1-9R
Formula	: C13H12N2O2
Synonyms	: 1-Hydroxy-2-oxo-2-phenyl-4,5,6,7-tetrahydro-1H-benzimidazole
Other means of identification	: MFCD00168418
1.2. Relevant identified uses of the substa	ance 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 sheet
SynQuest Laboratories, Inc. P.O. Box 309	
Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synguestlabs.com - www.synguestlabs.com	
1.4. Emergency telephone number	
	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mix	<b>xture</b>
Classification (GHS-US)	
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irritationSTOT SE 3H335 - May cause respiratory irritation	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing dust, mist, spray</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact</li> <li>lenses, if present and easy to do. Continue rinsing</li> <li>P312 - Call a POISON CENTER or doctor/physician if you feel unwell</li> <li>P312 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> </ul>

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P405 - Store locked up

P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
	on on in	aradianta		
SECTION 3: Composition/informati	on on in	greatents		
3.1. Substance				
Substance type	: IVIONC	-constituent		<u>.</u>
Name		Product identifier	%	Classification (GHS-US)
1-Hydroxy-2-phenyl-1,5,6,7-tetrahydro-4H-benzimic (Main constituent)	lazol-4-one	(CAS No) 257869-87-7	<= 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		se of accident or if you feel unwell, seek to possible). Move the affected personnel		
First-aid measures after inhalation		ove person to fresh air and keep comforta ation. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial
First-aid measures after skin contact		with plenty of soap and water. Get med		
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 measures after ingestion		OT induce vomiting. Never give anything n out with water. Get medical advice/atte		unconscious person. Rinse
4.2. Most important symptoms and effects, both acute and delayed				
Symptoms/injuries		nost important known symptoms and effe ind/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate media	al attentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable 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 s	ubstance	or mixture		
Fire hazard	: Therr	nal decomposition generates: Carbon ox	ides. Nitrogen o	xides.
5.3. Advice for firefighters				
Firefighting instructions	: In cas	se of fire: Evacuate area.		
Protection during firefighting	: Wear	gas tight chemically protective clothing i ratus. For further information refer to sec		
SECTION 6: Accidental release me				
6.1. Personal precautions, protective e				
General measures	: Evac	uate unnecessary personnel. Ensure ade	equate air ventila	ation. Do not breathe dust.
6.1.1. For non-emergency personnel				
Emergency procedures	: Only	qualified personnel equipped with suitabl	e protective equ	uipment may intervene.
6.1.2 For emergency responders				
6.1.2. For emergency responders Protective equipment		ot attempt to take action without suitable to section 8: "Exposure controls/persona		ment. For further information
6.2. Environmental precautions			•	
6.2. Environmental precautions Avoid release to the environment. Notify autho	ritios if proc	luct enters sewers or public waters		

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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.3. Methods and materi	3. Methods and material for containment and cleaning up				
For containment	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 s	sections				
No additional information availa	ble				
<b>SECTION 7: Handling a</b>	nd storage				
7.1. Precautions for safe	a 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	<ul> <li>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.</li> </ul>				

7.2.	Conditions for safe storage	, including any incompatibilities
Technic	cal measures	· Comply with applicable regulat

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

Physical state : Solid	
Color : No data available	
Odor : No data available	
Odor threshold : No data available	
pH : No data available	
Melting point : 247 - 257 °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	
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 : 228.25 g/mol	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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	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
Acute to	oxicity : Not classified

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

**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

12/08/2016

Aspiration hazard

: Not classified

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal consideration	S	
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 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		
<b>SECTION 15: Regulatory information</b>		
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:		

1-Hydroxy-2-phenyl-1,5,6,7-tetrahydro-4H-benzimidazol-4-one CAS No 257869-87-7 100%			
	1-Hvdroxy-2-phenyl-1.5.6.7-tetrahvdro-4H-benzimidazol-4-one	CAS No 257869-87-7	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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.