

Piperidin-4-one Safety Data Sheet 4H1713B according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/25/2016 Version: 1.0

SECTION 1: Identification				
1.1. Identification				
Product form	: Substance			
Substance name	: Piperidin-4-one			
CAS No	: 41661-47-6			
Product code		: 4H17-1-3B		
Formula	: C5H9NO			
Synonyms	: 4-Oxopiperidine			
Other means of identification	: MFCD00955709			
	substance or mixture and uses a	dvisod against		
Use of the substance/mixture		uviseu against		
	: Laboratory chemicals Manufacture of substance Scientific research and de			
1.3. Details of the supplier of the sa	fety data sheet			
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab				
1.4. Emergency telephone number	: (844) 523-4086 (3E Comp	any Account 10060)		
Emergency number	. (644) 525-4060 (SE COM	any - Account 10009)		
SECTION 2: Hazard(s) identificat	ion			
2.1. Classification of the substance	or mixture			
Classification (GHS-US)				
Full text of H-phrases: see section 16         2.2.       Label elements				
GHS-US labeling Hazard pictograms (GHS-US)	CHS07			
Signal word (GHS-US)	: Warning			
Hazard statements (GHS-US)	<ul> <li>H315 - Causes skin irritati H319 - Causes serious ey H335 - May cause respira</li> </ul>	e irritation		
Precautionary statements (GHS-US)	P280 - Wear protective gli P302+P352 - If on skin: W P304+P340 - If inhaled: R P305+P351+P338 - If in e lenses, if present and eas P312 - Call a POISON CE P321 - Specific treatment P332+P313 - If skin irritati P337+P313 - If skin irritati P362+P364 - Take off cor P403+P233 - Store in a w P405 - Store locked up	hly after handling or in a well-ventilated area oves/protective clothing/eye protection/face protection ash with plenty of soap and water emove person to fresh air and keep comfortable for bi yes: Rinse cautiously with water for several minutes. F	reathing	
12/08/2016	•		Page 1	
12/08/2016	EN (English US)	SDS ID: 4H1713B	Page 1	

Piperidin-4-one Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS	05)			
Not applicable				
SECTION 3: Composition/infor	nation on i	ngredients		
3.1. Substance				
Substance type	: Mon	no-constituent		
Name		Product identifier	%	Classification (GHS-US)
Piperidin-4-one (Main constituent)		(CAS No) 41661-47-6	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16		1		- <b>I</b>
3.2. Mixture				
Not applicable				
<b>SECTION 4: First aid measures</b>				
4.1. Description of first aid measu	res			
First-aid measures general	whe	ase of accident or if you feel unwell, se re possible). Move the affected person	nnel away from the	contaminated area.
First-aid measures after inhalation		nove person to fresh air and keep com piration. Get medical advice/attention.	fortable for breath	ing. If not breathing, give artificial
First-aid measures after skin contact		sh with plenty of soap and water. Get r		
First-aid measures after eye contact	pres	nediately flush eyes thoroughly with wa sent and easy to do. Continue rinsing.	Get medical advice	
First-aid measures after ingestion		NOT induce vomiting. Never give anyt uth out with water. Get medical advice		n unconscious person. Rinse
-	mou	uth out with water. Get medical advice		n unconscious person. Rinse
4.2. Most important symptoms an	mou <b>d effects, both</b> : The	uth out with water. Get medical advice	attention.	·
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<ul> <li>4.2. Most important symptoms an Symptoms/injuries</li> <li>4.3. Indication of any immediate n Treat symptomatically.</li> </ul>	mou d effects, both : The 2.2) nedical attenti	uth out with water. Get medical advice, <b>n acute and delayed</b> most important known symptoms and and/or in section 11.	attention.	·
4.2.       Most important symptoms an         Symptoms/injuries         4.3.       Indication of any immediate n         Treat symptomatically.         SECTION 5: Firefighting measure	mou d effects, both : The 2.2) nedical attenti	uth out with water. Get medical advice, <b>n acute and delayed</b> most important known symptoms and and/or in section 11.	attention.	·
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# Piperidin-4-one

## Safety Data Sheet

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

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			
<b>SECTION 7: Handling and storage</b>			
7.1. Precautions 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 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, inclu	Iding 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. 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 an	nd chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: 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	: 99.13 g/mol

# Piperidin-4-one Safety Data Sheet

Solubility	, March 26, 2012 / Rules and Regulations : 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 sto	prage conditions.
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
Keep away from heat, sparks and flame.	
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition products	
Under normal conditions of storage and use, ha fire, see Section 5.	zardous decomposition products should not be produced. Hazardous decomposition products in case
<b>SECTION 11: Toxicological information</b>	tion
11.1. Information on toxicological effects	
11.1. Information on toxicological effects	
Information on toxicological effects           Acute toxicity	
Information on toxicological effects           Acute toxicity           Skin corrosion/irritation	: Not classified
Information on toxicological effects           Acute toxicity           Skin corrosion/irritation           Serious eye damage/irritation	: Not classified : Causes skin irritation.
Information on toxicological effects           Acute toxicity           Skin corrosion/irritation           Serious eye damage/irritation           Respiratory or skin sensitization	<ul> <li>Not classified</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> </ul>
	<ul> <li>Not classified</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> </ul>
Information on toxicological effects           Acute toxicity           Skin corrosion/irritation           Serious eye damage/irritation           Respiratory or skin sensitization           Germ cell mutagenicity	<ul> <li>Not classified</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> </ul>
Information on toxicological effects           Acute toxicity           Skin corrosion/irritation           Serious eye damage/irritation           Respiratory or skin sensitization           Germ cell mutagenicity           Carcinogenicity	<ul> <li>Not classified</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Information on toxicological effects           Acute toxicity           Skin corrosion/irritation           Serious eye damage/irritation           Respiratory or skin sensitization           Germ cell mutagenicity           Carcinogenicity           Reproductive toxicity           Specific target organ toxicity (single exposure)           Specific target organ toxicity (repeated	<ul> <li>Not classified</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
11.1.         Information on toxicological effects           Acute toxicity         Skin corrosion/irritation           Serious eye damage/irritation         Respiratory or skin sensitization           Germ cell mutagenicity         Carcinogenicity           Reproductive toxicity         Respiratory or skin sensitization	<ul> <li>Not classified</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Mot classified</li> <li>May cause respiratory irritation.</li> </ul>
<b>11.1.</b> Information on toxicological effects           Acute toxicity         Skin corrosion/irritation           Serious eye damage/irritation         Respiratory or skin sensitization           Germ cell mutagenicity         Carcinogenicity           Reproductive toxicity         Specific target organ toxicity (single exposure)           Specific target organ toxicity (repeated exposure)         Specific target organ toxicity (repeated exposure)	<ul> <li>Not classified</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>May cause respiratory irritation.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>

No add	itional information available			
12.2.	Persistence and degradability			
No add	itional information available			
12.3.	Bioaccumulative potential			
No add	itional information available			
12.4.	Mobility in soil			
No add	itional information available			
12.5.	Other adverse effects			
No add	itional information available			
12/08/20	016	EN (English US)	SDS ID: 4H1713B	4/6

## **Piperidin-4-one**

## Safety Data Sheet

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

SECTION 13: Disposal consid	erations
13.1. Waste treatment methods	
Waste treatment methods	: 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.

- Waste disposal recommendations 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

## **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:

Piperidin-4-one	CAS No 41661-47-6	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

Piperidin-4-one 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.