

# **1,3-Dimethyl-2-imidazolidinone** Safety Data Sheet 4H17113 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/12/2017 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 1,3-Dimethyl-2-imidazolidinone		
CAS No	: 80-73-9		
Product code	: 4H17-1-13		
Formula	: C5H10N2O		
Synonyms	: Tetrahydro-2H-imidazol-2-one; 1,3	-Dimethyl-2-oxoimidazolidine	
Other means of identification	: MFCD00003188		
<b>1.2.</b> Relevant identified uses of the substa	ance or mixture and uses advised a	igainst	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and developme	nt	
1.3. Details of the supplier of the safety d	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@synquestlabs.com - www.synquestlabs.com 1.4. Emergency telephone number			
	· (844) 522 4086 (25 Compony As	acut 10000)	
Emergency number	: (844) 523-4086 (3E Company - Ac	count 10069)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mi	xture		
Classification (GHS-US)			
STOT SE 3 H335 - May cause respirat	on e damage iging fertility or the unborn child	or repeated exposure	
· ··· ··· · · · · · · · · · · · · · ·			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS05 GHS07	GHS08	
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	<ul> <li>H302 - Harmful if swallowed</li> <li>H315 - Causes skin irritation</li> <li>H318 - Causes serious eye damage</li> <li>H335 - May cause respiratory irrita</li> <li>H361 - Suspected of damaging fer</li> <li>H373 - May cause damage to orga</li> </ul>	tion	sure
Precautionary statements (GHS-US)	P201 - Obtain special instructions P202 - Do not handle until all safet P260 - Do not breathe fumes, mist P264 - Wash skin thoroughly after P270 - Do not eat, drink or smoke P271 - Use only outdoors or in a w P280 - Wear protective gloves/prop P301+P312 - If swallowed: Call a P P302+P352 - If on skin: Wash with	before use y precautions have been read and understood spray, vapors handling when using this product ell-ventilated area ective clothing/eye protection/face protection POISON CENTER or doctor/ physician if you fe	el unwell
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2.3. Other hazards	P305+P351+P338 - If in eyes: Rin lenses, if present and easy to do. P308+P313 - If exposed or conce P310 - Immediately call a POISO P314 - Get medical advice/attenti P321 - Specific treatment (see su P330 - Rinse mouth P332+P313 - If skin irritation occu P362+P364 - Take off contamina P403+P233 - Store in a well-venti P405 - Store locked up P501 - Dispose of contents/conta	Continue rinsing erned: Get medical advice N CENTER or doctor/ ph ion if you feel unwell upplemental first aid instru- urs: Get medical advice/a ted clothing and wash it b ilated place. Keep contain	e/attention ysician uctions on this label) ttention pefore reuse ner tightly closed
No additional information available			
2.4. Unknown acute toxicity (GHS U Not applicable	5)		
SECTION 3: Composition/information	ation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
1,3-Dimethyl-2-imidazolidinone (Main constituent)	(CAS No) 80-73-9	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361 STOT SE 3, H335 STOT RE 2, H373
Full text of H-phrases: see section 16	·	·	
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
I.1. Description of first aid measure	: In case of accident or if you feel u	inwall, sook modical advi	co immodiately (show the label
First-aid measures general	where possible). Move the affecte		
First-aid measures after inhalation	: Remove person to fresh air and k respiration. Get immediate medic		thing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and wat medical advice/attention.	ter. Remove contaminate	ed clothing and shoes. Get immediate
First-aid measures after eye contact	: Immediately flush eyes thoroughl present and easy to do. Continue		5 minutes. Remove contact lenses, if nedical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never g mouth out with water. Get immed		
4.2. Most important symptoms and	· · · · · · · · · · · · · · · · · · ·		
Symptoms/injuries	: The most important known sympt 2.2) and/or in section 11.	oms and effects are desc	cribed in the labelling (see section
Symptoms/injuries after inhalation	: Material is destructive to tissue of shortness of breath, headache, na		es and upper respiratory tract. Cough,
4.3. Indication of any immediate me	dical attention and special treatment ne	eeded	
Freat symptomatically.			
SECTION 5: Firefighting measure	<b>?</b> \$		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon di appropriate for surrounding fire.	oxide. Dry powder. Wate	r spray. Use extinguishing media
.2. Special hazards arising from the	e substance or mixture		
Fire hazard	: Thermal decomposition generates	•	
Explosion hazard	: Risk of explosion if heated under containers.	confinement. Use water	spray or fog for cooling exposed
5.3. Advice for firefighters			
irefighting instructions	: In case of fire: Evacuate area. Fig	ght fire remotely due to th	e risk of explosion.
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Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTION 6: Accidental release measu	ıres
6.1. Personal precautions, protective equi	pment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2. Environmental precautions	
Avoid release to the environment. Notify authoritie	s if product enters sewers or public waters.
6.3. Methods and material for containmen	t and cleaning up
	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
	Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
lo additional information available	
SECTION 7: Handling and storage	
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 fumes, mist, spray, vapors. 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	any incompatibilities
echnical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Hygroscopic. Keep contents under inert gas.
ncompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/perso	nal protection
3.1. Control parameters	
No additional information available	
3.2. 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.
	: 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 Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.
SECTION 9: Physical and chemical pr	operties
9.1. Information on basic physical and ch	
	Liquid

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Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 8 °C
Freezing point	: No data available
Boiling point	: 224 - 226 °C
Flash point	: 95 °C
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
Specific gravity / density	: 1.056 g/ml (@ 25 °C)
Molecular mass	: 114.15 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	
Refractive index	: 1.472 (@ 20 °C)
SECTION 10: Stability and reactivit	
10.1. Reactivity	

No additional information available

#### 10.2. Chemical stability

The product is stable at normal handling and storage 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, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information	

11.1. Information on toxicological effects

Acute toxicity

: Oral: Harmful if swallowed.

1,3-Dimethyl-2-imidazolidinone (80-73-9	
LD50 oral rat	1190 µl/kg
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified

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Germ cell mutagenicity Carcinogenicity	: Not classified : Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated	<ul> <li>May cause respiratory irritation.</li> <li>May cause damage to organs (testis) through prolonged or repeated exposure.</li> </ul>
exposure)	
Aspiration hazard Symptoms/injuries after inhalation	<ul> <li>Not classified</li> <li>Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough,</li> </ul>
	shortness of breath, headache, nausea.

SECT	ION 12: Ecological information
12.1.	Toxicity
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

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Waste treatment methods Waste disposal recommendations Additional information	<ul> <li>Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Recycle the material as far as possible.</li> </ul>		

## **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		
1,3-Dimethyl-2-imidazolidinone (80-73-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	<ul> <li>E - E - indicates a substance that is the subject of a Section 5(e) Consent Order under TSCA.</li> <li>P - P - indicates a commenced PMN substance.</li> <li>S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule.</li> </ul>	

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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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**

#### 1,3-Dimethyl-2-imidazolidinone (80-73-9)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

#### 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. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated
	exposure

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	: 1 - Must be preheated before ignition can occur.	
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	
	* - Chronic (long-term) health effects may result from repeated overexposure	
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)	
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.