

# Bis(2,5-dioxopyrrolidin-1-yl) carbonate Safety Data Sheet 4H281X0 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/05/2016 Version: 1.0

	Voluent 1		
SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: Bis(2,5-dioxopyrrolidin-1-yl	carbonate	
CAS No	: 74124-79-1		
Product code	: 4H28-1-X0		
Formula	: C9H8N2O7		
Synonyms	: N,N'-Disuccinimidyl carbon	ate; DSC; 1,1'-[Carbonylbis(oxy)]dipyrrolidine-2,5	-dione
Other means of identification	MFCD00009767		
1.2. Relevant identified uses of the	substance or mixture and uses a	vised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and dev		
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	ica		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Compa	ny - Account 10069)	
Skin Irrit. 2H315 - Causes skinEye Irrit. 2AH319 - Causes serioSTOT SE 3H335 - May cause reFull text of H-phrases: see section 16	ous eye irritation		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)			
Signal word (GHS US)	GHS07		
Signal word (GHS-US) Hazard statements (GHS-US)	: Warning : H302 - Harmful if swallowe H315 - Causes skin irritatio H319 - Causes serious eye H335 - May cause respirat	n irritation	
Precautionary statements (GHS-US)	P271 - Use only outdoors of P280 - Wear protective glo P301+P312 - If swallowed: P302+P352 - If on skin: Wi P304+P340 - If inhaled: Re P305+P351+P338 - If in ey lenses, if present and easy P312 - Call a POISON CEI P321 - Specific treatment ( P330 - Rinse mouth	ly after handling smoke when using this product or in a well-ventilated area ves/protective clothing/eye protection/face protec Call a POISON CENTER or doctor/ physician if y ash with plenty of soap and water move person to fresh air and keep comfortable for es: Rinse cautiously with water for several minute	you feel unwell or breathing es. Remove contac
12/08/2016	EN (English US)	SDS ID: 4H281X0	Page 1
12/00/2010		3U3 IU: 4A201AU	Page 1

Safety Data Sheet

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

according to Federal Register / Vol. 77, No. 58 / Monda	y, March 26	5, 2012 / Rules and Regulations		
	P362 P403 P403	7+P313 - If eye irritation persists: Get m 2+P364 - Take off contaminated clothing 3+P233 - Store in a well-ventilated place 5 - Store locked up 1 - Dispose of contents/container to an a	g and wash it be e. Keep containe	efore reuse er tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
<b>SECTION 3: Composition/informati</b>	on on ir	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
Bis(2,5-dioxopyrrolidin-1-yl) carbonate (Main constituent)		(CAS No) 74124-79-1	<= 100	Acute Tox. 4 (Oral), H302 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		ase of accident or if you feel unwell, see re possible). Move the affected personn		
First-aid measures after inhalation		nove person to fresh air and keep comfo iration. Get immediate medical advice/a		ning. If not breathing, give artificial
First-aid measures after skin contact	: Was	h with plenty of soap and water. Get im	mediate medica	l advice/attention.
First-aid measures after eye contact	pres	Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.		
First-aid measures after ingestion		Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.		
4.2. Most important symptoms and effe	ects, both	acute and delayed		
Symptoms/injuries		The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.		
4.3. Indication of any immediate medic	al attentio	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxide. Dry opriate for surrounding fire.	powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the s	ubstance	or mixture		
Fire hazard	: Ther	: Thermal decomposition generates: Carbon oxides. Nitrogen oxides.		
5.3. Advice for firefighters				
Firefighting instructions	: In ca	ase of fire: Evacuate area.		
Protection during firefighting		r gas tight chemically protective clothing aratus. For further information refer to se		
SECTION 6: Accidental release me	asures			
6.1. Personal precautions, protective e	quipment	and emergency procedures		
General measures	: Eva	cuate unnecessary personnel. Ensure a	dequate air ven	tilation. Do not breathe dust.

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

## Bis(2,5-dioxopyrrolidin-1-yl) carbonate Safety Data Sheet

ch 26 2012 / Pul N/-**م** ا

ccording to Federal Register / Vol. 77, No. 58 / Mo	nday, March 26, 2012 / Rules and Regulations
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".
6.2. Environmental precautions	
Avoid release to the environment. Notify aut	horities if product enters sewers or public waters.
6.3. Methods and material for conta	inment 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 storag</b>	e
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, inc	luding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Otomo and to make und	: 2 - 8 °C Use explosion proof refrigerator
Storage temperature	

**Control parameters** 8.1.

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	I chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 190 °C (dec.)
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

Safety Data Sheet

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

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	: 256.17 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 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 acids. 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

Acute toxicity	: Orai: Harmful 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 information
12.1.	Toxicity
No addi	tional information available
12.2.	Persistence and degradability
No addi	tional information available

Safety Data Sheet

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

12.3.	Bioaccumulative potential			
No addi	tional information available			
12.4.	Mobility in soil			
No addi	tional information available			
12.5.	Other adverse effects			
No addi	tional information available			

#### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods

Waste disposal recommendations Additional information : 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 excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

Bis(2,5-dioxopyrrolidin-1-yl) carbonate	CAS No 74124-79-1	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

Bis(2,5-dioxopyrrolidin-1-yl) carbonate (74124-79-1)	
Listed on the AICS (Australian Inventory of 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**

Safety Data Sheet

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

Full text of H-phrases:			
	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4
	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
	H302		Harmful if swallowed
	H315		Causes skin irritation
	H319		Causes serious eye irritation
	H335		May cause respiratory irritation
NFPA f	nealth hazard ire hazard reactivity	<ul> <li>2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.</li> <li>0 - Materials that will not burn.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>	
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.