

Safety Data Sheet 22211Y2 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/31/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: cis-Cyclopentane-1,3-dicarboxylic acid
CAS No	: 876-05-1
Product code	: 2221-1-Y2
Formula	: C7H10O4
Synonyms	: cis-1,3-Dicarboxycyclopentane
Other means of identification	: MFCD01311175
.2. Relevant identified uses of the	substance or mixture and uses advised against
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
I.3. Details of the supplier of the sa	afety 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	
I.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
Skin Irrit. 2H315 - Causes skin irritatiorEye Irrit. 2AH319 - Causes serious eyeSTOT SE 3H335 - May cause respirato	irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	irritation
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 irritation by irritation : irritation : irritation : irritation : GHS07 : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 irritation by irritation : irritation : irritation : irritation : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation

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0.0 Other berende				
2.3. Other hazards No additional information available				
2.4. Unknown acute toxicity (GHS US) Not applicable				
SECTION 3: Composition/information	on ingredients			
3.1. Substance				
Substance type :	ubstance type : Mono-constituent			
Name	Product identifier		%	Classification (GHS-US)
cis-Cyclopentane-1,3-dicarboxylic acid (Main constituent)	(CAS No) 876-05-1		<= 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 :	In case of accident or if you fee where possible). Move the affe			
First-aid measures after inhalation :	Remove person to fresh air and respiration. Get medical advice		able for breathin	ng. If not breathing, give artificial
First-aid measures after skin contact :	Wash with plenty of soap and w	water. Get medi	cal advice/atter	ntion.
First-aid measures after eye contact :				,
First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.				
4.2. Most important symptoms and effects, 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 medical at	tention and special treatment	needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
	Alcohol resistant foam. Carbon appropriate for surrounding fire		owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the substance or mixture				
Fire hazard :	Thermal decomposition generation	ates: Carbon oxi	des.	
5.3. Advice for firefighters				
Firefighting instructions : In case of fire: Evacuate area.				
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	′es			
		Jres		
				ation. Do not breathe dust.
6.1.1. For non-emergency personnel		المعادينة المعادم		
Emergency procedures :	Only qualified personnel equip	ped with suitable	e protective equ	aipment may intervene.
6.1.2. For emergency responders				
Protective equipment :	Do not attempt to take action w refer to section 8: "Exposure co			oment. 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. Methods and material for contain	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				
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 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	ding 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.
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	: 121 °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	: 158.15 g/mol

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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	tional information available	
10.2.	Chemical stability	
The pro	duct is stable at normal handling and sto	prage conditions.
10.3.	Possibility of hazardous reactions	
No add	tional 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	S
	normal conditions of storage and use, ha e Section 5.	zardous decomposition products should not be produced. Hazardous decomposition products in case of
SECT	ION 11: Toxicological information	tion
11.1.	Information on toxicological effects	\$
Acute to	oxicity	: Not classified
Skin co	rrosion/irritation	: Causes skin irritation.

Skin conosion/initation	. Causes skin initiation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	Not classifiedMay 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

Aspiration hazard

: Not classified

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SECTION 13: Disposal considera	tions	
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 informat	ion	
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 informa	ition	
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:		

cis-Cyclopentane-1,3-dicarboxylic acid	CAS No 876-05-1	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

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 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.