

Safety Data Sheet 2229126 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/11/2020 Version: 1.0

SECTION 1: Identification 1.1. Identification				
Product form	: Substance			
Substance name	: 4-Oxoadamantane-1-carboxylic	: 4-Oxoadamantane-1-carboxylic acid		
CAS No	: 56674-87-4	56674-87-4		
Product code	: 2229-1-26	: 2229-1-26		
Formula	: C11H14O3			
Synonyms	: 1-Carboxy-4-oxoadamantane			
Other means of identification	: MFCD01825769			
1.2. Relevant identified uses of the s	substance or mixture and uses advise	d against		
Use of the substance/mixture	: Laboratory chemicals			
	Manufacture of substances Scientific research and developr	nent		
1.3. Details of the supplier of the safe	ety data sheet			
SynQuest Laboratories, Inc.				
P.O. Box 309				
Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs				
1.4. Emergency telephone number				
Emergency number	: (844) 523-4086 (3E Company -	Account 10069)		
STOT SE 3 H335 - May cause res Full text of H-phrases: see section 16				
2.2. Label elements				
GHS-US labeling				
GHS-US labeling	: GHS07			
GHS-US labeling Hazard pictograms (GHS-US)	: GHS07 : Warning			
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: GHS07 : Warning : H302 - Harmful if swallowed			
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation 			
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irrita 			
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	: Warning : H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irrita H335 - May cause respiratory irr	itation		
2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US) Precautionary statements (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irrita H335 - May cause respiratory irr P261 - Avoid breathing dust, mis P264 - Wash skin thoroughly aft P270 - Do not eat, drink or smok P271 - Use only outdoors or in a P280 - Wear protective gloves/p P301+P312 - If swallowed: Call P302+P352 - If on skin: Wash w P304+P340 - If inhaled: Remove P305+P351+P338 - If in eyes: R lenses, if present and easy to do P312 - Call a POISON CENTER P321 - Specific treatment (see s P330 - Rinse mouth 	itation it, spray er handling e when using this product well-ventilated area rotective clothing/eye protection/face protect a POISON CENTER or doctor/ physician if y ith plenty of soap and water e person to fresh air and keep comfortable for inse cautiously with water for several minut	you feel unwell or breathing es. Remove contac	

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	P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed 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						
SECTION 3: Composition/information	on in	gredients				
3.1. Substance						
Substance type	: Mono	o-constituent				
Name		Product identifier	%	Classification (GHS-US)		
4-Oxoadamantane-1-carboxylic acid (Main constituent)		(CAS No) 56674-87-4	<= 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						
		se of accident or if you feel unwell, seek e possible). Move the affected personnel				
First-aid measures after inhalation		ove person to fresh air and keep comfort ration. Get immediate medical advice/atte		ng. If not breathing, give artificial		
First-aid measures after skin contact	: Wasł	n with plenty of soap and water. Get imm	ediate medical a	advice/attention.		
First-aid measures after eye contact		ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get				
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 effect	s, 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	attentio	n and special treatment needed				
Treat symptomatically.						
SECTION 5: Firefighting measures						
5.1. Extinguishing media						
Suitable extinguishing media		nol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media		
5.2. Special hazards arising from the sub-	stance	or mixture				
Fire hazard						
5.3. Advice for firefighters						
Firefighting instructions		se of fire: Evacuate area.				
Protection during firefighting		r gas tight chemically protective clothing i ratus. For further information refer to sec				
SECTION 6: Accidental release meas						
6.1. Personal precautions, protective equ	•					
General measures 6.1.1. For non-emergency personnel	: Evac	uate unnecessary personnel. Ensure ade	equate air ventil	ation. Do not breathe dust.		
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.					

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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 enviro	onment. Notify authorities if product enters sewers or public waters.
6.3. Methods and m	aterial 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 ot	her sections
No additional information a	available
SECTION 7: Handlir	ig and storage
7.1. Precautions for	safe handling
Precautions for safe handli	 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, including 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.
C+	Others in draw and soull constitute down a

Storage area : Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

: 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.
: Protective gloves. 29 CFR 1910.138: Hand Protection.
: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
: Wear suitable protective clothing.
: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
: 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	: 170 - 172 °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	

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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	: 194.2271 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 addi	tional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	tional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	oxidizing agents.
10.6.	Hazardous decomposition products
Under r	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.
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

SECTION	ON 12: Ecological information			
12.1.	Toxicity			
No additi	onal information available			
12.2.	Persistence and degradability			
No additional information available				
12.3.	Bioaccumulative potential			
No additional information available				
No additi	unal information available			
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12.4. **Mobility in soil**

No additional information available

12.5. Other adverse effects

No additional information available

 aste treatment methods aste disposal recommendations endrove 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. ECTION 14: Transport information excordance with DOT accordance with DOT					
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o additional information available	EU-Regulations No additional information available				
.3. US State regulations	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

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Full tex	t of H-phrases:		
	Acute Tox. 4 (Oral)	А	Acute toxicity (oral) Category 4
	Eye Irrit. 2A	S	Serious eye damage/eye irritation Category 2A
	Skin Irrit. 2	S	Skin corrosion/irritation Category 2
	STOT SE 3	S	Specific target organ toxicity (single exposure) Category 3
	H302	H	Harmful if swallowed
	H315	C	Causes skin irritation
	H319	C	Causes serious eye irritation
	H335	N	Nay cause respiratory irritation
NFPA f	nealth hazard rire hazard reactivity	 3 - Short exposure could cau residual injury even though p given. 0 - Materials that will not burr 0 - Normally stable, even und and are not reactive with wat 	n. der fire exposure conditions,
HMIS I	II Rating		
Health		: 3 Serious Hazard - Major ir given	njury likely unless prompt action is taken and medical treatment is
Flamma	ability	: 0 Minimal Hazard - Material	s that will not burn
Physica	al		Is that are normally stable, even under fire conditions, and will NOT , 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.