

Safety Data Sheet 22211X2 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/31/2016 Version: 1.0

1.1 Identification Product form : Substance Substance name : Adamantane-1-carboxylic acid CAS No : 2826-1.3 Product code : 2221-1.>2 Formula : C11H1602 Synonyms : 1 - Carboxyddamantane; Tricyclo(3.3.1.1-3,7-)decane-1-carboxylic acid Other means of identification :: MCCD00074720 1.2 Relevant identification :: Laboratory chemicals Manufacture of substances Scientific research and development 1.3 Details of the supplier of the safety data sheet Synonymestific research and development 1.4. Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(5) identification : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(5) identification : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(5) identification : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(5) identification : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard (5) identification : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard (5) Causes serious eye irritation : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard (6) HS-US) : (841) 523-4086 (6E Company -	SECTION 1: Identification	
Product form : Substance Substance name : Adamantane-1-carboxylic acid SAS No : 528-51-3 Product code : 2221-1-X2 Pormula : 1-21-X2 Synonyms : : 1-Carboxydamantaner, Tricyclo[3.3.1.1-3,7-Jdecane-1-carboxylic acid Dther means of identification : McD000074720 12. Relevant identified uses of the substance or mixture and uses advised against Jase of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 13. Details of the supplier of the statety data sheet SynOwaset Laboratories, Inc. *0. Roy 309 Machan, FL 23615 - United States of America In (988) 462-0786 - F (386) 462-7097 Moridag Synoughtabac com - www.supuestabas.com Itelestates 14. Emergency tielephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazaro(15) (Identification 17935 4135 - Causes scion instation STOT SE 3 H335 - May cause respiratory initiation Full text of H-phrases: see section 16 2.2. Labe lemonts Sector Signal word (CHS-US) : Warning Hazard pictograms (GHS-US)		
Substance name : Adamantane-1-carboxylic acid CAS No : 2825-1-3 Product code : 2221-1-X2 Formula : C11111602 Synonyms : 1-Carboxydamantane: Tricyclo[3.3.1.1-3.7-Jdecane-1-carboxylic acid Other means of identification : IMFCD00074720 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet SynOues Laboratories, Inc. PAO-Data 200 Alexhua, FL 32615 - United States of America Triggel 482-0782 - Value of the substance or mixture 1.4. Emergency usedphone number 1.7. Classification of the substance or mixture 2.1. Classification of the substance or mixture 2.2. Label elements CHS-US Table - Causes serious eve infration For Int. 21 H325 - Causes serious eve infration For Int. 23 H335 - May cause respiratory infration For Int. 24 H319 - Causes serious eve infration For Int. 25 H335 - May cause respiratory infration Full ext of H.Jphrasers: see section 16 2.2. Label elements CHS-US Table ing Hazard pictograms (GHS-US) : Warning Hazard pictograms (GHS-US) : Warning Hazard statements (GHS-US) : Pati Avoid breathing dust, mist, spray P240 - Wace has the normoly use respiratory infration H335 - May cause respiratory infration P324 - P325 - 11 ne skin: Wash with plent branding P241 - Vace have expendent dust the handling P241 - Vace have expendent dust the handling P241 - Vace have expendent dust the handling P241 - Vace have norming of protection/face protection/ P304-P305 - 11 ne skin: Wash with plent branding P241 - Vace have norming of protection of have subser and makes to bia cause respiratory infration P304-P305 - 11 neski		: Substance
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SynQuest Laboratories, Inc. 20. Box 309 Wachua, FL 32615 - United States of America (7386) 462-0788 - F (386) 462-7097 Info@synquestIabs.com - www.synquestIabs.com I.4. Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) identification 21. Classification of the substance or mixture 21assification (OHS-US) Sin Intit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irritation STOT SE3 H335 - May cause respiratory irritation STOT SE3 H335 - May cause respiratory irritation STOT SE3 H335 - May cause respiratory irritation SHS-US fabeling Hazard pictograms (GHS-US) Signal word (GHS-US) Signal word (GHS-US) File Statements (GHS-US) File Statements (GHS-US) Precautionary statements (SHS-US) Precautionary statement (SHS-US) Precautionary statements		Manufacture of substances
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Alachua, FL 32615 - United States of America (386) 462-0788 - F (386) 462-7097 Ind @ synquestlabs.com - www.synquestlabs.com I.4. Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(5) Identification 2:1. Classification of the substance or mixture Classification of the substance or mixture Classification of the substance or mixture Classification of the substance or wirthation Sys Intrit. 2 H315 - Causes skin irritation Sys Intrit. 2 H315 - Causes skin irritation Sys Intrit. 2 H315 - Causes serious eye irritation STOT SE 3 H335 - May cause respiratory irritation Ful text of H-phrases: see section 16 2:2. Label elements BHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) : H315 - Causes skin irritation H319 - Causes skin irritation H319 - Causes serious eye irritation Figure and the substance of the substance or mixture Classification of the substance or mixture Signal word (GHS-US) : Warning Hazard statements (GHS-US) : H315 - Causes serious eye irritation H319 - Causes serious eye irritation H319 - Causes serious eye irritation H319 - Causes serious eye irritation P305 - May cause respiratory irritation P302 - Wear protection globs; mixture of the substance or protection P302 - Wear protective globes/protective dothing/eye protection/face protection P302 - P325 - 11 or on skin: Wash with plenty of soag and water P304-P340 - 11 inhaled: Remove person to fresh air and keep comfortable for breathing P312 - Call a POISON CENTER or doctoriphysician if you feel unwell P312 - Specific treatment (see supplemental first aid instructions on this label)	SynQuest Laboratories, Inc.	
1 (386) 462-0788 - F (386) 462-7097 Info@synquestlabs.com - www.synquestlabs.com Emergency telephone number SECTION 2: Hazard(S) Identification 21. Classification of the substance or mixture Classification (GHS-US) Skin Irit. 2 H315 - Causes seini iritation SYP Irit. 3A H315 - Causes seini iritation STOT SE 3 H335 - May cause respiratory irritation STOT SE 3 H335 - May cause respiratory irritation Full text of H-phrases: see section 16 E 2.2. Label elements GHS07 GHS07 I Warning Hazard pictograms (GHS-US) I Warning Hazard statements (GHS-US) I H315 - Causes skin irritation H319 - Causes serious eye irritation H315 - May cause respiratory irritation H325 - May cause respiratory irritation H315 - Causes serious eye irritation H319 - Causes serious eye irritation H315 - Causes serious eye irritation H326 - Avaeis kin thoroughly after handing P244 - Wash skin thoroughly after handing P241 - Avoid breathing dust, mist, sp		~
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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	Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	 irritation ry irritation : irritation : irritation : irritation : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation
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P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant	Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 irritation ry irritation irritation irr

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2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS	(SL		
Not applicable			
SECTION 3: Composition/inform	nation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
Adamantane-1-carboxylic acid (Main constituent)	(CAS No) 828-51-3	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16	1		•
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measur	es		
First-aid measures general	: In case of accident or if you feel unw where possible). Move the affected p		
First-aid measures after inhalation	: Remove person to fresh air and keep respiration. Get medical advice/atten		ing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and water.	Get medical advice/atte	ention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly w present and easy to do. Continue rin		
First-aid measures after ingestion	: Do NOT induce vomiting. Never give mouth out with water. Get medical a		an unconscious person. Rinse
4.2. Most important symptoms and	effects, both acute and delayed		
Symptoms/injuries	: The most important known symptom 2.2) and/or in section 11.	s and effects are descri	bed in the labelling (see section
4.3. Indication of any immediate m	edical attention and special treatment need	ed	
Treat symptomatically.			
SECTION 5: Firefighting measu	es		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxi appropriate for surrounding fire.	de. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from t	ne substance or mixture		
Fire hazard	: Thermal decomposition generates: C	Carbon oxides.	
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area.		
Protection during firefighting	: Wear gas tight chemically protective apparatus. For further information re		
SECTION 6: Accidental release	measures		
6.1. Personal precautions, protect	ve equipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. E	nsure adequate air vent	ilation. Do not breathe dust.
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped w	ith suitable protective e	quipment may intervene.
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without refer to section 8: "Exposure controls		ipment. 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 c	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 section	S			
No additional information available				
SECTION 7: Handling and sto	orage			
7.1. Precautions for safe handl	ing			
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.			
Hygiono mossures	· Handle in accordance with good industrial bygiene and safety procedures. Do not eat, drink or			

: 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.
ing any incompatibilities
: Comply with applicable regulations.
: Keep container closed when not in use.
: 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 ar	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	: 174 - 175 °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	: 180.24 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 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
	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of section 5.
SECT	ION 11: Toxicological information
11.1.	Information on toxicological effects

Acute toxicity	: Not classified
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	n		
12.1.	Toxicity			
No add	litional information available			
12.2.	Persistence and degradability			
No add	litional information available			
12.3.	Bioaccumulative potential			
No add	litional information available			
12.4.	Mobility in soil			
No add	litional information available			
12.5.	Other adverse effects			
No add	litional information available			
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SECTION 13: Disposal considerations	S			
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 information				
Department of Transportation (DOT)				
In accordance with DOT				
Not regulated for transport				
TDG				
No additional information available				
Transport by and				
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:		C <i>Y</i>
Adamantane-1-carboxylic acid	CAS No 828-51-3	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

Adamantane-1-carboxylic acid (828-51-3)
Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on NZIOC (New Zealand Inventory of Chemicals)

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.