

2-Oxa-6-azaspiro[3.4]octane

Safety Data Sheet 4H31110 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/13/2018 Version: 1.0

SECTION 1: Identification			
	. Cultatanaa		
Product form	: Substance		
Substance name	: 2-Oxa-6-azaspiro[3.4]oc	ane	
CAS No	: 220290-68-6		
Product code	: 4H31-1-10		
Formula	: C6H11NO		
Other means of identification	: MFCD14586455		
1.2. Relevant identified uses of the s		advised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substand Scientific research and o		
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 Con	ipany - Account 10069)	
SECTION 2: Hazard(s) identification	on		
2.1. Classification of the substance of	or mixture		
Classification (GHS-US)			
Flam. Liq. 4 H227 - Combustible liquid Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye ir STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16			
2.2. Label elements GHS-US labeling			
Hazard pictograms (GHS-US)	GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H227 - Combustible liqu H315 - Causes skin irrita H319 - Causes serious (H335 - May cause respi	tion ye irritation	
Precautionary statements (GHS-US)	P210 - Keep away from P261 - Avoid breathing f P264 - Wash skin thorou P271 - Use only outdoor P280 - Wear protective P302+P352 - If on skin: P304+P340 - If inhaled: P305+P351+P338 - If in lenses, if present and ea P312 - Call a POISON (P321 - Specific treatmer P332+P313 - If skin irrita P337+P313 - If skin irrita P362+P364 - Take off c	neat/sparks/open flames/hot surfaces. No smoking umes, mist, spray, vapors	or breathing ss. Remove contact el)
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- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- P403+P235 Store in a well-ventilated place. Keep cool
- 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 ingredients

3.1. Substance

Substance type : Mono-constituent Name Product identifier % Classification (GHS-US) 2-One-forzagin(3.4)optame (CB-8 No) 22029-66-6 s= 100 Plan: Ling: 4, H223 2-One-forzagin(3.4)optame (CB-8 No) 22029-66-6 s= 100 Plan: Ling: 4, H223 Full text of H-phrases: see section 16 3.2. Mixture Not applicable SECTION 4 : First alid measures First-alid measures First-alid measures First-alid measures First-alid measures general : In case of accident or if you feel unwell, seek medical advice/attention. First-alid measures after eve contact :: First-alid measures after inhalation :: Remove persoin to fesh air and keep confrobable for breathing. If not breathing, give artificial respiration. Get medical advice/attention. First-alid measures after eve contact :: Immediately flush eves thoroughly with water. Get 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 medical advice/attention. 2.2) and/or in section 11. 4.3. Indication of any immediate medical advice/attention. 2.2) and/or in section 11. 4.3. 5.1.	3.1. Substance	Mana appatituent		
2-Ob-A-asspir(0)34)octane (Main constituent) If (CAB No) 220290-68-6 If (CAB No) 220290-68-6 Full text of H-phrases: see section 16 STOT SE 5, 14336 3.2. Mixture Not applicable STOT SE 5, 14336 SECTION 4. First ald measures First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area. First-aid measures after skin contact : Wash with plenty of soap and water. Get medical advice/attention. First-aid measures after eve contact : Immediately fush eves thoroughly with water for at least 16 minutes. Remove person. Rinse present and easy to do. Continue rinsing. Get medical advice/attention. First-aid measures after eve contact : Immediately fush eves thoroughly with water for at least 16 minutes. Remove contact lenses, present and easy to do. Continue rinsing. Get 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 medical advice/attention. First-aid measures after ingestion : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11. 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 sect				
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	General measures :		Ensure adequate air ven	tilation. Do not breathe gas, fumes
	6.1.1. For non-emergency personnel			
		Only qualified personnel equipped v	vith suitable protective e	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".
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 at	uthorities if product enters sewers or public waters.
6.3. Methods and material for cont	ainment and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: 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	
No additional information available	
SECTION 7: Handling and stora	ge
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, in	cluding 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 temperature : 2 - 8 °C Use explosion proof refrigerator	
Storage area	: Store in dry, 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 an	d chemical properties	
9.1. Information on basic	physical and chemical properties	
Physical state	: Liquid	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: 187 °C	
Flash point	: 63 °C	
		2/2

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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	: 1.08 g/ml
Molecular mass	: 113.1576 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 of	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 a Section 5.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

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

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SECT	SECTION 12: Ecological information		
12.1.	Toxicity		
No addi	itional information available		
12.2.	Persistence and degradability		
No addi	itional information available		
12.3.	Bioaccumulative potential		
No addi	itional information available		
12.4.	Mobility in soil		
No addi	itional information available		
12.5.	Other adverse effects		
No addi	tional information available		

SECTION 13: Disposal consideration	e
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	
Transport document description	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea No additional information available	

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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:

2-Oxa-6-azaspiro[3.4]octane CAS No 220290-68-6 100%			
	2-074-0-4243011013.410014110	CAS No 220290-68-6	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
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
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	: 2 - Must be moderately heated or exposed to relatively high temperature 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
Flammability	2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
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.