

1-Oxa-6-azaspiro[2.5]octane, N-BOC protected Safety Data Sheet 4H561C2 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/20/2016 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 1-Oxa-6-azaspiro[2.5]octar	e, N-BOC protected	
CAS No	: 147804-30-6		
Product code	: 4H56-1-C2		
Formula	: C11H19NO3		
Synonyms	: tert-Butyl 6-azaspiro[2.5]oc	ane-1-oxa-6-carboxylate	
Other means of identification	: MFCD07779385	and r-oxa-o-carboxylate	
	substance or mixture and uses ac	vised ensited	
Use of the substance/mixture			
use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and dev	elopment	
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 - <u>www.synquestlab</u>			
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Compa	ny - Account 10069)	
SECTION 2: Hazard(s) identificat	ion		
2.1. Classification of the substance			
Classification (GHS-US)			
Skin Irrit. 2 H315 - Causes skin irritatior Eye Irrit. 2A H319 - Causes serious eye			
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato			
Full text of H-phrases: see section 16	ly initiation		
i un text of 11-prilases. see section 10			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H315 - Causes skin irritatio H319 - Causes serious eye H335 - May cause respirate	irritation	
Precautionary statements (GHS-US)	P302+P352 - If on skin: Wa P304+P340 - If inhaled: Re P305+P351+P338 - If in ey lenses, if present and easy P312 - Call a POISON CEN P321 - Specific treatment (P332+P313 - If skin irritatio P337+P313 - If eye irritatio P362+P364 - Take off cont P403+P233 - Store in a we P405 - Store locked up	ly after handling r in a well-ventilated area ves/protective clothing/eye protection/face protection sh with plenty of soap and water move person to fresh air and keep comfortable for b es: Rinse cautiously with water for several minutes.	preathing
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2.3.	Other hazards				
No additi	ional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not appli	cable				
SECTIO	ON 3: Composition/informatio	on on in	gredients		
3.1.	Substance		-		
Substanc	ce type	: Mond	-constituent		
Name			Product identifier	%	Classification (GHS-US)
	-azaspiro[2.5]octane, N-BOC protected stituent)		(CAS No) 147804-30-6	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of	of H-phrases: see section 16				
3.2.	Mixture				
Not appli	cable				
SECTIO	ON 4: First aid measures				
4.1.	Description of first aid measures				
⁻irst-aid ı	measures general	where	se of accident or if you feel unwell, seek e possible). Move the affected personne	el away from the	contaminated area.
First-aid ı	measures after inhalation		ove person to fresh air and keep comfor ration. Get medical advice/attention.	table for breathi	ng. If not breathing, give artificial
	measures after skin contact		with plenty of soap and water. Get me		
-irst-aid i	measures after eye contact	prese	ediately flush eyes thoroughly with water ont and easy to do. Continue rinsing. Ge	t medical advice	e/attention.
First-aid ı	measures after ingestion		OT induce vomiting. Never give anythin h out with water. Get medical advice/att		n unconscious person. Rinse
4.2.	Most important symptoms and effe	cts, both	acute and delayed		
Symptom	ns/injuries		nost important known symptoms and ef and/or in section 11.	fects are descril	bed in the labelling (see section
4.3.	Indication of any immediate medica	al attentio	n and special treatment needed		
Treat syn	nptomatically.				
SECTIO	ON 5: Firefighting measures				
5.1.	Extinguishing media				
	extinguishing media		ol resistant foam. Carbon dioxide. Dry p priate for surrounding fire.	oowder. Water s	pray. Use extinguishing media
5.2.	Special hazards arising from the su	bstance	or mixture		
Fire haza	ard	: Therr	nal decomposition generates: Carbon o	xides. Nitrogen	oxides.
5.3.	Advice for firefighters				
	ng instructions	: In cas	se of fire: Evacuate area.		
-	n during firefighting		gas tight chemically protective clothing	in combination	with self contained breathing
	5 5 5		ratus. For further information refer to se		
SECTIO	ON 6: Accidental release mea	sures_			
6.1.	Personal precautions, protective ed		and emergency procedures		
	measures		uate unnecessary personnel. Ensure ac	lequate air venti	lation. Do not breathe dust
6.1.1.	For non-emergency personnel	- ·			
Emergen	ncy procedures	: Only	qualified personnel equipped with suital	ole protective ec	uipment may intervene.
6.1.2.	For emergency responders				
	e equipment	· Do no	ot attempt to take action without suitable		nment For further information

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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6.3. Methods and material for conta	ainment 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	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 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, 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.
	: Store in dry, cool, well-ventilated area.

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 a	and chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 58 - 59 °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	: 213.27 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	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and sto	rage 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 oxidizing agents.	
10.6. Hazardous decomposition products	
Under normal conditions of storage and use, haz fire, see Section 5.	ardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological informat	
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Skin corrosion/irritation Serious eye damage/irritation	: Causes skin irritation. : Causes serious eye irritation.
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	 Causes skin irritation. Causes serious eye irritation. Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified Not classified May cause respiratory irritation.
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified May cause respiratory irritation. Not classified Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified May cause respiratory irritation. Not classified Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard SECTION 12: Ecological information	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified May cause respiratory irritation. Not classified Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard SECTION 12: Ecological information 12.1. Toxicity No additional information available	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified May cause respiratory irritation. Not classified Not classified
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Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard SECTION 12: Ecological information 12.1. Toxicity No additional information available 12.2. Persistence and degradability No additional information available	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified May cause respiratory irritation. Not classified Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard SECTION 12: Ecological information 12.1. Toxicity No additional information available 12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified May cause respiratory irritation. Not classified Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard 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	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified May cause respiratory irritation. Not classified Not classified
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Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard 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	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified May cause respiratory irritation. Not classified Not classified

12.5.	Other adverse effects		
No additi	ional information available		
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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 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:

1-Oxa-6-azaspiro[2.5]octane, N-Boc protected	CAS No 147804-30-6	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
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.