

1-(3-Bromophenyl)cyclobutane-1-carboxylic acid Safety Data Sheet 2721914 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 08/02/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 1-(3-Bromophenyl)cyclobutane-1-carboxylic acid
CAS No	: 926261-31-6
Product code	: 2721-9-14
Formula	: C11H11BrO2
Synonyms	: 1-(3-Bromophenyl)-1-carboxycyclobutane; 1-(1-Carboxycyclobut-1-yl)-3-bromobenzene
Other means of identification	: MFCD08443228
1.2. Relevant identified uses of the subs	stance 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
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com	<u>m</u>
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or m	nixture
Classification (GHS-US)	
Acute Tox. 4 (Oral)H302 - Harmful if swallowSkin Irrit. 2H315 - Causes skin irritatEye Irrit. 2AH319 - Causes serious egSTOT SE 3H335 - May cause respiratFull text of H-phrases: see section 16	tion ye irritation
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS07
Signal word (GHS-US)	GHS07
Signal word (GHS-US) Hazard statements (GHS-US)	GHS07 : Warning : H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
o ()	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation

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	j to Federal Register / Vol. 77, No. 58 / Monday, M	P337 P362 P403 P405	+P313 - If eye irritation persists: Get m +P364 - Take off contaminated clothin +P233 - Store in a well-ventilated place - Store locked up - Dispose of contents/container to an	g and wash it be e. Keep containe	fore reuse er tightly closed
2.3.	Other hazards				
No add	ditional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not ap	plicable				
SEC	FION 3: Composition/information	on in	gredients		
3.1.	Substance				
Substa	ince type	Mono	o-constituent		
Nam	e		Product identifier	%	Classification (GHS-US)
	romophenyl)cyclobutane-1-carboxylic acid constituent)		(CAS No) 926261-31-6	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full te	t of H-phrases: see section 16				
3.2.	Mixture				
	plicable				
SEC	FION 4: First aid measures				
4.1.	Description of first aid measures				
First-a	d measures general		se of accident or if you feel unwell, see e possible). Move the affected personn		
First-a	d measures after inhalation		ove person to fresh air and keep comforration. Get medical advice/attention.	rtable for breath	ing. If not breathing, give artificial
First-a	d measures after skin contact	Wash	n with plenty of soap and water. Get me	edical advice/atte	ention.
First-a	First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.				
First-a	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		
Sympt	oms/injuries		nost important known symptoms and e and/or in section 11.	ffects are descri	bed in the labelling (see section
4.3.	Indication of any immediate medical a	ttentio	n and special treatment needed		
Treat	symptomatically.				
SEC	TION 5: Firefighting measures				
5.1.	Extinguishing media				
Suitab	e extinguishing media		nol resistant foam. Carbon dioxide. Dry opriate for surrounding fire.	powder. Water	spray. Use extinguishing media
5.2.	Special hazards arising from the subs	tance	or mixture		
Fire ha	zard	Therr	mal decomposition generates: Carbon	oxides. Hydroge	n bromide.
5.3.	Advice for firefighters				
Firefig	nting instructions	In ca	se of fire: Evacuate area.		
Protec	tion during firefighting		r gas tight chemically protective clothing ratus. For further information refer to so		
SEC	TION 6: Accidental release measu	ires			
6.1.	Personal precautions, protective equi	pment	and emergency procedures		
Gener	al measures	Evac	uate unnecessary personnel. Ensure a	dequate air vent	tilation. Do not breathe dust.

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6.1.2. For emergency res	bonders
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 pred	autions
Avoid release to the environme	nt. Notify authorities if product enters sewers or public waters.
6.3. Methods and mater	ial 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
6.4. Reference to other No additional information availa	
No additional information avail	able
	able nd storage
No additional information availant SECTION 7: Handling a	able nd storage
No additional information availa SECTION 7: Handling a 7.1. Precautions for saf	able nd storage e 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
No additional information availa SECTION 7: Handling a 7.1. Precautions for safe Precautions for safe handling Hygiene measures	able nd storage 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. Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or
No additional information availa SECTION 7: Handling a 7.1. Precautions for safe Precautions for safe handling Hygiene measures	able nd storage e 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. : 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.
No additional information availa SECTION 7: Handling a 7.1. Precautions for safe Precautions for safe handling Hygiene measures 7.2. Conditions for safe	able nd storage e 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. : 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. storage, including any incompatibilities
No additional information availa SECTION 7: Handling a 7.1. Precautions for safe Precautions for safe handling Hygiene measures 7.2. Conditions for safe Technical measures	able nd storage a 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. : 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. storage, including any incompatibilities : Comply with applicable regulations.

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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 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	: No data available
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	: 255.11 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 add	itional information available
10.2.	Chemical stability
The pro	oduct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	itional 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
Under r	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of

Under 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

SECT	SECTION 12: Ecological information				
12.1.	Toxicity				
No add	itional information available				
12.2.	Persistence and degradability				
No add	itional information available				
12.3.	Bioaccumulative potential				
No additional information available					
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Mobility in soil 12.4.

No additional information available

12.5. Other adverse effects

No additional information available

Vaste disposal recommendations : Dispose of contents/container in accordance with licensed collector's sorting instructions. : Recycle the material as far as possible. ECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT Not regulated for transport DG No additional information available Transport by sea No additional information available SECTION 15: Regulatory information SUBSECTION 15: Regulatory information 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-(3-Bromophenyl)cyclobutane-1-caroxylic acid CAS No 926261-31-6 100% This product or mixture does not contain a toxic chemicals in excess of the applicable de minimis concentration as specified in 40 CFR 8372.38(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. 52. International information available SCANADA No additional information available SCANADA No additional information available SCANADA No additional information available SCANADA No additional information available SCANADA	I3.1. Waste treatment methods			
Additional information Recycle the material as far as possible.	Naste treatment methods	: Remove to an	n authorized incinerator equipped with an aft	erburner and a flue gas scrubber.
SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT Not regulated for transport TDG No additional information available Transport by sea No additional information available SECTION 15: Regulatory information SI. 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-(3-Bromophenyl)cyclobutane-1-carboxylic acid CAS No 926261-31-6 100% This product or misture 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. S.2. International regulations CANDA No additional information available CU-Regulations	Waste disposal recommendations	: Dispose of co	ntents/container in accordance with licensed	l collector's sorting instructions.
Department of Transport In accordance with DOT Not regulated for transport TDG No additional information available Transport by sea No additional information available Not ransport No additional information available SECTION 15: Regulatory information SECTION 15: Regulatory information 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-(3-Bromophenyl)cyclobutane-1-carboxylic acid CAS No 926261-31-6 100% 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. S2. International regulations SANADA No additional information available EU-Regulations	Additional information	: Recycle the m	naterial as far as possible.	
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CANADA No additional information available EU-Regulations		/lic acid	CAS No 926261-31-6	100 /8
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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

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Full tex	t of H-phrases:	
	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
	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
	H302	Harmful if swallowed
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
NFPA	health hazard fire hazard reactivity	 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 0 - Materials that will not burn. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS I	II Rating	
Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flamm	ability	: 0 Minimal Hazard - Materials that will not burn
Physic	al	: 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.