

2-ChlorobutyIsulfurpentafluoride

Safety Data Sheet 5171706 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/09/2019 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 2-Chlorobutylsulfurpentafluoride
CAS No	: 2244079-20-5
Product code	: 5171-7-06
Formula	: C4H8CIF5S
Synonyms	: (2-Chlorobutyl)pentafluorosulfane
Other means of identification	: MFCD31695424
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)	
Skin Irrit. 2H315 - Causes skin irritatEye Irrit. 2AH319 - Causes serious eySTOT SE 3H335 - May cause respiratFull text of H-phrases: see section 16	ye irritation
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS07
Signal word (GHS-US)	
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

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	g to Federal Register / Vol. 77, No. 58 / Monday, N		•		
		P362 P403 P405	+P313 - If eye irritation persists: Get i +P364 - Take off contaminated clothi +P233 - Store in a well-ventilated pla - Store locked up - Dispose of contents/container to an	ng and wash it be ce. Keep contain	efore reuse er tightly closed
2.3.	Other hazards				
No ad	ditional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not ap	oplicable				
SEC	TION 3: Composition/information	on in	gredients		
3.1.	Substance				
Subst	ance type	: Monc	-constituent		
Nam	16		Product identifier	%	Classification (GHS-US)
	lorobutylsulfurpentafluoride constituent)		(CAS No) 2244079-20-5	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full te	ext of H-phrases: see section 16				
3.2.	Mixture				
	oplicable				
SEC	TION 4: First aid measures				
4.1.	Description of first aid measures				
First-a	aid measures general		se of accident or if you feel unwell, se e possible). Move the affected person		
First-a	aid measures after inhalation		ove person to fresh air and keep com ation. Get immediate medical advice		hing. If not breathing, give artificial
First-a	aid measures after skin contact	: Wasł	with plenty of soap and water. Get in	nmediate medica	al advice/attention.
First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, present and easy to do. Continue rinsing. Get immediate medical advice/attention.					
First-a	aid measures after ingestion		OT induce vomiting. Never give anyth n out with water. Get immediate medi		
4.2.	Most important symptoms and effects	s, both	acute and delayed		
Symp	toms/injuries		nost important known symptoms and and/or in section 11.	effects are descr	ribed in the labelling (see section
4.3.	Indication of any immediate medical a	attentio	n and special treatment needed		
Treat	symptomatically.				
SEC	TION 5: Firefighting measures				
5.1.	Extinguishing media				
Suitab	ble extinguishing media		ol resistant foam. Carbon dioxide. Dr priate for surrounding fire.	y powder. Water	spray. Use extinguishing media
5.2.	Special hazards arising from the subs	stance	or mixture		
Fire h	azard		nal decomposition generates: Carbor r oxides.	oxides. Hydroge	en chloride. Hydrogen fluoride.
Explo	sion hazard		of explosion if heated under confinem iners.	ent. Use water s	pray or fog for cooling exposed
5.3.	Advice for firefighters				
Firefig	hting instructions	: In ca	se of fire: Evacuate area. Fight fire re	notely due to the	e risk of explosion.
Protec	ction during firefighting		gas tight chemically protective clothin atus. For further information refer to		
SEC	TION 6: Accidental release measu	ires -			
	Henro. Accidental release illeast	105			

6.1.	Personal precautions, protective equ	Jip	ment and emergency procedures	
General r	neasures		Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.	

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
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 authorities if product enters sewers or public waters.

6.3. Methods and material for contain	3. Methods and material for containment 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 storage	
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, includi	ng 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 area	: Store in dry, cool, well-ventilated area.

SECTION 8. EX	posure controls/	nersonal	protection
SECTION 0. EX	posure 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	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	: No data available		

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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	: 218.616 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	vay from heat, sparks and flame.
10.5.	Incompatible materials
Strong a	acids. Strong oxidizing agents.
10.6.	Hazardous decomposition products
	ormal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of 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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTIO	ON 12: Ecological information
12.1.	Toxicity
No additi	onal information available
12.2.	Persistence and degradability
No additi	onal information available
12.3.	Bioaccumulative potential
No additi	onal information available
12.4.	Mobility in soil
No additi	onal information available
12.5.	Other adverse effects
No additi	onal information available

SECTION 13: Disposal consideration	ns
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.

Department of Transportation (DOT)

SECTION 14: Transport information

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:

2-Chlorobutylsulfurpentafluoride	CAS No 2244079-20-5	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

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 16: Other information

Full text of H-phrases:

Acute toxicity (oral) Category 4 Serious eye damage/eye irritation Category 2A Skin corrosion/irritation Category 2 Specific target organ toxicity (single exposure) Category 3 Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation t exposure could cause serious temporary or injury even though prompt medical attention was be preheated before ignition can occur.		
Skin corrosion/irritation Category 2 Specific target organ toxicity (single exposure) Category 3 Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation t exposure could cause serious temporary or injury even though prompt medical attention was		
Specific target organ toxicity (single exposure) Category 3 Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation t exposure could cause serious temporary or injury even though prompt medical attention was		
Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation t exposure could cause serious temporary or injury even though prompt medical attention was		
Causes skin irritation Causes serious eye irritation May cause respiratory irritation t exposure could cause serious temporary or injury even though prompt medical attention was		
Causes serious eye irritation May cause respiratory irritation t exposure could cause serious temporary or injury even though prompt medical attention was		
May cause respiratory irritation t exposure could cause serious temporary or injury even though prompt medical attention was		
t exposure could cause serious temporary or injury even though prompt medical attention was		
injury even though prompt medical attention was		
nally stable, even under fire exposure conditions, not reactive with water.		
erate Hazard - Temporary or minor injury may occur		
 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB) 		
nal Hazard - Materials that are normally stable, even under fire conditions, and will NOT it water, polymerize, decompose, condense, or self-react. Non-Explosives.		
t		

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.