

2-Bromoheptafluoronaphthalene Safety Data Sheet 1600A72 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/04/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 2-Bromoheptafluoronaphthalene
CAS No	: 27041-17-4
Product code	: 1600-A-72
Formula	: C10BrF7
Other means of identification	: MFCD07784218
1.2. Relevant identified uses of the sul	bstance 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 safet	y 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.c	<u>:om</u>
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificatio	n
2.1. Classification of the substance or	
Classification (GHS-US)	
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irrit	tation
STOT SE 3 H335 - May cause respiratory i	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	\mathbf{V}
	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation
	H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	H319 - Causes serious eye irritation H335 - May cause respiratory irritation : P261 - Avoid breathing dust, mist, spray
	 H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling
	H319 - Causes serious eye irritation H335 - May cause respiratory irritation : P261 - Avoid breathing dust, mist, spray
	 H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water
	 H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
	 H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact
	 H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
	 H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label)
	 H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention
	 H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention
	 H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse
	 H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention
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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	. Mana anatiku ant		
Substance type	: Mono-constituent		L.
Name	Product identifier	%	Classification (GHS-US)
2-Bromoheptafluoronaphthalene (Main constituent)	(CAS No) 27041-17-4	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16			
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
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 kee respiration. Get immediate medical a		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	: Remove contact lenses, if present a thoroughly with water for at least 15	nd easy to do. Continue minutes. Get medical a	rinsing. Immediately flush eyes dvice/attention.
First-aid measures after ingestion	: Due to its physical form, exposure to give anything by mouth to an uncons advice/attention.		
4.2. Most important symptoms and effects	s, 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
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.		
	: Contact with the liquid the may caus	e cold burns/frostbite.	
Symptoms/injuries after eye contact	: Direct contact with the liquefied gas to frostbite from rapid liquid evaporation of the second sec		possibly permanent eye injury due
4.3. Indication of any immediate medical	attention and special treatment need	ed	
No additional information available			
SECTION 5: Firefighting measures			
5.1. 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 the sub-	stance or mixture		
Fire hazard	: Thermal decomposition generates: 0	Carbon oxides. Hydroge	n bromide. Hydrogen fluoride.
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 meas	ures		
6.1. Personal precautions, protective equ			
	: Evacuate unnecessary personnel. E	nsure adequate air vent	tilation. 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 withour refer to section 8: "Exposure controls		ipment. For further information

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6.2. Environmental precautions						
Avoid release to the environment. Notify authoritie	es if product enters sewers or public waters					
	· ·					
6.3. 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 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 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, includin	g 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: Exposure controls/perso	onal 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

 No data available No data available No data available No data available 		
: No data available		
: No data available		
: No data available		
: No data available		
: > 110 °C		
: No data available		
: No data available		
: 69 - 71 °C		
: No data available		
: Solid		
•	 No data available No data available No data available No data available 69 - 71 °C No data available No data available No data available > 110 °C No data available 	 Solid No data available No data available No data available No data available 69 - 71 °C No data available No data available > 110 °C No data available

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Relative vapor density at 20 °C	: No data available
Molecular mass	: 333.0 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

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. Ir	nformation on toxicological effects		
Acute toxic	ty : 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
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Contact with the liquid the may cause cold burns/frostbite.
Symptoms/injuries after eye contact	: Direct contact with the liquefied gas may cause severe and possibly permanent eye injury due to frostbite from rapid liquid evaporation.

SECTIO	DN 12: Ecological information
12.1.	Toxicity
No additi	onal information available
12.2.	Persistence and degradability
No additi	onal information available

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No additional information available 12.4. Mobility in soil No additional information available 12.5. Other adverse effects	12.3.	Bioaccumulative potential		
No additional information available	No addi	tional information available		
	12.4.	Mobility in soil		
12.5. Other adverse effects	No add	tional information available		
12.5. Other adverse effects				
	10 5			

SECTION 13: Disposal considerations

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

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-Bromoheptafluoronaphthalene	CAS No 27041-17-4	100%	
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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

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Full text	t 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
NFPA f	nealth hazard ire hazard eactivity	 : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. : 0 - Materials that will not burn. : 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
Flamma	ability	: 0 Minimal Hazard - Materials that will not burn
Physica	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.