

# **3,4-Bis(trifluoromethyl)bromobenzene** Safety Data Sheet 1800B37 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/13/2016 Version: 1.0

1.1.       Identification         Product form       Substance         CAS No       Substance         Product Code       Substance         Code means of identified uses of the substance 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 subplier of the safety data sheet         Synchuse Laboratories, Inc.       PO Dava 309         PA Dava 309       Annual Status of America T (366) 442-0786 (3E Company - Account 10069)         SECTION 2: Hazard(s) identification       Economistication of the substance or mixture         Classification of the substance or mixture       Classification of the substance or mixture         Classification of the substance or mixture       Classification of the substance or mixture         Classification of the substance or mixture       Classification of the substance or mixture         Classification of the substance or mixture       Classification of the substance or mixture         Classification of the substance or mixture       Classification of the substance or mixture         Classification o	SECTION 1: Identification	
Product form       I: Substance         Watstance name       I: 3.4-Bis(fithuromethyl)bromobenzene         AS No       I: 300-8-37         Froduct code       I: 1800-8-37         formula       I: CHBB/F6         Other means of identification       I: MFCD06253758         2.       Relevant identified uses of the substance or mixture and uses advised against         Ber of the substance/mixture       I: Laboratory chemicals Manufacture of substances         Jone FL       Signified research and development         .3.       Details of the substance America         (1960) 462-0708 - F (386) 462-7007       Index of the substance America         (1960) 462-0708 - F (386) 462-7007       Index of the substance or mixture         .4.       Emergency telephone number       Index of the substance or mixture         Classification of the substance or mixture       Index of the substance or mixture         Classification of the substance or noixture       Index of the substance or mixture         Classification of the substance or mixture       Index of the substance or mixture         Classification of Hase substance or mixture       Index of Hase Substance         Signal word (GHS-US)       I: Warning         stard statements (GHS-US)       I: Warning         stard biolograms (GHS-US)       I: Warning      <		
AS No : : 20-23-6 roduct code : : 1800-8-37 comula : : C0H3BrF6 ther means of identification : : MrCD02623758 2. Relevant identified uses of the substance or mixture and uses advised against ther means of identification : : MrCD02623758 2. Relevant identified uses of the substance or mixture and uses advised against ther means of identification : : Laboratory chemicals Manufacture of substances Scientific research and development 3. Details of the supplier of the safety data sheet yproduest Laboratory chemicals Manufacture of substances (386) 462-708 - F (386) 462-7097 (386) 462-7087 - F (386) 462-7097 (387) 462-7087 - Combustible liquid Attribustion of the substance or mixture thesification (GH5-US) ECTION 2: Hazerd(5) identification  4. Emergency telephone number imagency number (381) 462-727 - Combustible liquid Attribustion of the substance or mixture thesification (GH5-US) implication (GH5-US) ispal word (GH5-US) : Warning Istaard pictograms (GH5-US) : Warning Istaard pictograms (GH5-US) : Warning Hazer d pictograms (GH5-US) : Warning Hazer d pictograms (GH5-US) : Warning P271 - Use pawy from hackSparksopen finanshot surfaces. No smoking P261 - Avoid breathing fumes, mist, spray, vapore P261 - Words pawy from hackSparksopen finanshot surfaces. No smoking P261 - Words pawy from hackSparksopen finanshot surfaces. No smoking P261 - Words pawy from hackSparksopen finanshot surfaces. No smoking P261 - Words have from hording parts and keep comfortable for breathing P271 - Use only outdoors or in a well-wentilated rea P282 - Words protection gives prives to finan and keep comfortable for b	Product form	: Substance
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lachua, FL 32615 - United States of America (386) 462-708 + F(386) 462-7087 fo@synquestlabs.com - www.synquestlabs.com <b>4. Emergency telephone number</b> mergency number : (844) 523-4086 (3E Company - Account 10069) <b>ECTION 2: Hazard(s) identification</b> <b>1. Classification of the substance or mixture</b> <b>1. Classification (CHS-US)</b> Iam.Liq. 4 H227 - Combustible liquid Kin Irrd. 2 H H315 - Causes skin irritation ye limit. 2A H319 - Causes serious eye irritation TOT SE 3 H335 - May cause respiratory irritation UI text of H-phrases: see section 16 <b>2. Label elements</b> <b>H5-US labeling</b> Iazard pictograms (GHS-US) i H227 - Combustible liquid H35 - Causes skin irritation H36 - Causes skin irritation H37 - Causes skin irritation H37 - Causes skin irritation H38 - Causes skin irritation H39 - Causes		
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Int Bis synquestlabs.com         4.       Emergency telephone number         mergency number       : (844) 523-4086 (3E Company - Account 10069)         ECTION 2: Hazard(s) identification		a
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mergency number       : (844) 523-4086 (3E Company - Account 10069)         ECTION 2: Hazard(s) identification         4. Classification of the substance or mixture         tassification (GHS-US)         Jam. Liq. 4       H227 - Combustible liquid         kin Int. 2       H315 - Causes seinious eye irritation         ye limit. 2A       H319 - Causes serious eye irritation         ull text of H-phrases: see section 16		
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<ul> <li>Eye Irit. 2A H319 - Causes serious eye irritation STOT SE 3 H335 - May cause respiratory irritation Full text of H-phrases: see section 16</li> <li>E.2. Label elements</li> <li>EAS-US labeling</li> <li>Hazard pictograms (GHS-US)</li> <li>E Warning</li> <li>Hazard statements (GHS-US)</li> <li>E Warning</li> <li>Hazard statements (GHS-US)</li> <li>E Warning</li> <li>Causes skin irritation H315 - Causes skin irritation</li> <li>H335 - May cause respiratory irritation</li> <li>H327 - Combustible liquid</li> <li>H335 - May cause serious eye irritation</li> <li>H336 - May cause respiratory irritation</li> <li>H337 - May cause respiratory irritation</li> <li>Perecautionary statements (GHS-US)</li> <li>P P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking</li> <li>P261 - Avoid breathing fumes, mist, spray, vapors</li> <li>P264 - Wash skin throroughy after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective cothing/eye protection/face protection</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P321 - Specific treatment (see supplemental first adi instructions on this label)</li> <li>P332+P313 - If skin irritation persists Get medical advice/attention</li> <li>P332+P313 - If eye irritation persists Get medical advice/attention</li> <li>P332+P313 - If eye irritation persists Get medical advice/attention</li> <li>P324+P344 - Take off contaminated clothing and wash</li></ul>	lam. Liq. 4 H227 - Combustible liquid	
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		P362+P364 - Take off contaminated clothing and wash it before reuse
		P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations 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 Unknown acute toxicity (GHS US) 2.4. Not applicable **SECTION 3: Composition/information on ingredients** 3.1. Substance Substance type : Mono-constituent Product identifier **Classification (GHS-US)** Name % 3,4-Bis(trifluoromethyl)bromobenzene (CAS No) 320-29-6 Flam. Liq. 4, H227 <= 100 (Main constituent) 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 **Description of first aid measures** 4.1. 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 inhalation Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention. First-aid measures after skin contact Wash with plenty of soap and water. Get medical advice/attention. Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if First-aid measures after eye contact present and easy to do. Continue rinsing. Get medical advice/attention. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse First-aid measures after ingestion mouth out with water. Get medical advice/attention. 42 Most important symptoms and effects, both acute and delayed Symptoms/injuries The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11. 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. SECTION 5: Firefighting measures 5.1. **Extinguishing media** Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire. 5.2. Special hazards arising from the substance or mixture Fire hazard : Thermal decomposition generates: Carbon oxides. Hydrogen bromide. Hydrogen fluoride. Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed Explosion hazard containers. May form flammable/explosive vapor-air mixture. 5.3. Advice for firefighters : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. **Firefighting instructions** Wear gas tight chemically protective clothing in combination with self contained breathing Protection during firefighting apparatus. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective eq	uipment and emergency procedures	
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.	
6.1.1. For non-emergency personnel Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.	

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6.1.2.	For emergency responders	
Protectiv	ve equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emerge	ncy procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.
6.2.	Environmental precautions	
Avoid re	elease to the environment. Notify autho	rities if product enters sewers or public waters.
6.3.	Methods and material for contain	nent and cleaning up
For cont	tainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods	s 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 in	formation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No addi	tional information available	
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	ions 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, inclue	ding any incompatibilities
Technic	al measures	: Comply with applicable regulations.
Storage	conditions	: Keep container closed when not in use.
Incompa	atible materials	: Refer to Section 10 on Incompatible Materials.
Storage	area	: Store in dry, cool, 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.

<b>SECTION 9: Physical and</b>	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	: -4847 °C
Freezing point	: No data available
Boiling point	: 160 - 161 °C

Flash point

: No data available

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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
Molecular mass	: 293 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	

Refractive index

: 1.442 (@ 23 °C)

SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
The product is stable at normal handling and storage 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, 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	: 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

SECTION 12: Ecological inform	ation		
12.1. Toxicity			
No additional information available			
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12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	IS
I3.1. 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	
Fransport 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)	<ul> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 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).</li> <li>T1 - 1.5 178.274(d)(2) Normal</li></ul>
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

#### Air transport

No additional information available

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#### **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:

3,4-Bis(trifluoromethyl)bromobenzene	CAS No 320-29-6	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

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	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was 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,

HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	<ul> <li>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 &amp; IIIA)</li> </ul>
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.

and are not reactive with water.

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.