

Safety Data Sheet 1800B24 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/08/2015 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 2,4-Bis(trifluoromethyl)benzy	bromide	
CAS No	: 140690-56-8		
Product code	: 1800-B-24		
Formula	: C9H5BrF6		
Synonyms	: 1-(Bromomethyl)-2,4-bis(triflu	oromethyl)benzene	
Other means of identification	: MFCD00010306		
	substance or mixture and uses adv	and against	
Use of the substance/mixture	: Laboratory chemicals	seu ayamsi	
	Manufacture of substances Scientific research and devel	opment	
1.3. Details of the supplier of the sa	afety data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Amer T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlat			
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company	/ - Account 10069)	
Skin Corr. 1AH314 - Causes severe skinEye Dam. 1H318 - Causes serious eyesSTOT SE 3H335 - May cause respiraFull text of H-phrases: see section 16	ye damage		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)			
Signal word (GHS-US)	GHS05 GHS07 : Danger		
Hazard statements (GHS-US)	: H227 - Combustible liquid H314 - Causes severe skin b H335 - May cause respiratory	, .	
Precautionary statements (GHS-US)	 P210 - Keep away from heat P260 - Do not breathe fumes P264 - Wash skin thoroughly P271 - Use only outdoors or P280 - Wear protective glove P301+P330+P331 - If swallov P303+P361+P353 - If on skir skin with water/shower P304+P340 - If inhaled: Rem P305+P351+P338 - If in eyes lenses, if present and easy to P310 - Immediately call a PC 	sparks/open flames/hot surfaces. No smoking mist, spray, vapors after handling n a well-ventilated area s/protective clothing/eye protection/face prote wed: rinse mouth. Do NOT induce vomiting of (or hair): Take off immediately all contaminat ove person to fresh air and keep comfortable click Rinse cautiously with water for several minu- do. Continue rinsing ISON CENTER or doctor/ physician	ction ted clothing. Rinse for breathing
	P363 - Wash contaminated c		,
12/06/2016	P363 - Wash contaminated c	••	,

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	P403 P405	 +P233 - Store in a well-ventilated place. +P235 - Store in a well-ventilated place. - Store locked up - Dispose of contents/container to an ap 	Keep cool	
2.3. Other hazards				
Other hazards not contributing to the classification	: Lach	rymator.		
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	on in	gredients		
3.1. Substance				
Substance type	: Mono	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
2,4-Bis(trifluoromethyl)benzyl bromide (Main constituent)		(CAS No) 140690-56-8	<= 100	Flam. Liq. 4, H227 Skin Corr. 1A, H314 Eye Dam. 1, H318 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	wher	se of accident or if you feel unwell, seek e 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 immediate medical advice/attention.		
First-aid measures after skin contact		n with plenty of soap and water. Remove cal advice/attention.	contaminated c	lothing and shoes. Get immediate
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 immediate medical advice/attention.		
First-aid measures after ingestion		Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.		
4.2. Most important symptoms and effect	s, both	acute and delayed		
Symptoms/injuries		most important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section
Symptoms/injuries after inhalation		rial is destructive to tissue of the mucuou ness of breath, headache, nausea.	s membranes a	nd upper respiratory tract. Cough,
4.3. Indication of any immediate medical	attentic	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		nol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the sub	stance	or mixture		
Fire hazard		mal decomposition generates: Carbon ox	ides. Hydrogen	bromide. Hydrogen fluoride.
Explosion hazard		of explosion if heated under confinement iners. May form flammable/explosive vap		ay or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions	: In ca	se of fire: Evacuate area. Fight fire remot	ely due to the ri	sk of explosion.
Protection during firefighting		r gas tight chemically protective clothing i ratus. For further information refer to sec		
SECTION 6: Accidental release meas				
6.1. Personal precautions, protective equ				
General measures		uate unnecessary personnel. Ensure ade r or spray.	equate air ventila	alion. Do not breathe gas, tumes,

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6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
.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. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.
.2. Environmental precautions	
void release to the environment. Notify author	prities if product enters sewers or public waters.
6.3. Methods and material for contain	ment and cleaning up
or containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
lethods 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".
.4. Reference to other sections	
lo additional information available	
ECTION 7: Handling and storage	
.1. Precautions for safe handling	
dditional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
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. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.
łygiene 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.
.2. Conditions for safe storage, inclu	
echnical measures	: Comply with applicable regulations.
torage conditions	: Keep container closed when not in use. Keep away from ignition sources. Keep contents under inert gas.
ncompatible materials	: Refer to Section 10 on Incompatible Materials.
storage area	: Store in dry, cool, well-ventilated area.
ECTION 8: Exposure controls/pe	rsonal protection
.1. Control parameters	
lo additional information available	
.2. Exposure controls	
ppropriate 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.
and protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
ye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
kin and body protection	: Wear suitable protective clothing.
espiratory 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 chemica	
.1. Information on basic physical and	
Physical state	: Liquid
No. Le u	

Odor threshold

Color

Odor

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рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 112 °C (@ 0.2 mm Hg)
Flash point	: 92 °C
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
Specific gravity / density	: 1.637 g/ml (@ 20 °C)
Molecular mass	: 307.03 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	: 1.4511 (@ 20 °C)
SECTION 10: Stability and reactivit	v
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and s	storage conditions
10.3. Possibility of hazardous reactions	-
No additional information available	
10.4.Conditions to avoidKeep away from heat, sparks and flame.	
10.5. Incompatible materials	
Strong bases. Strong oxidizing agents.	
10.6. Hazardous decomposition produc	its

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 severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
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.

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Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

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			
12.4. Mobility in soil			
No additional information available			
12.5. Other adverse effects			

No additional information available

SECTION 13: Disposal considerations			
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 Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT)

- DOT Packaging Non Bulk (49 CFR 173.xxx)
- DOT Packaging Bulk (49 CFR 173.xxx)

DOT Symbols

DOT Special Provisions (49 CFR 172.102)

- : UN3265 Corrosive liquid, acidic, organic, n.o.s., 8, III
- : UN3265
- : Corrosive liquid, acidic, organic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136

: 8 - Corrosive



- : III Minor Danger
- : 203
- : 241
- : G Identifies PSN requiring a technical name
- : 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).

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154

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DOT Quantity Limitations Passenger aircraft/ (49 CFR 173.27)	rail : 5 L
DOT Quantity Limitations Cargo aircraft only CFR 175.75)	(49 : 60 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.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 3265
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 3265
Proper Shipping Name (IATA)	: Corrosive liquid, acidic, organic, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory informat	ion
15.1. US Federal regulations	
All components of this product are listed, or Substances Control Act (TSCA) inventory e	r excluded from listing, on the United States Environmental Protection Agency Toxic except for:
2,4-Bis(trifluoromethyl)benzyl bromide	CAS No 140690-56-8 100%
_, · _ · · ,	
This product or mixture does not contain a t	toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 quirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986
This product or mixture does not contain a t CFR §372.38(a) subject to the reporting rec	
This product or mixture does not contain a t CFR §372.38(a) subject to the reporting rec and 40 CFR Part 372.	
This product or mixture does not contain a t CFR §372.38(a) subject to the reporting rec and 40 CFR Part 372. 15.2. International regulations CANADA	
This product or mixture does not contain a t CFR §372.38(a) subject to the reporting rec and 40 CFR Part 372. 15.2. International regulations CANADA No additional information available EU-Regulations	
This product or mixture does not contain a t CFR §372.38(a) subject to the reporting rec and 40 CFR Part 372. 15.2. International regulations CANADA No additional information available EU-Regulations No additional information available	quirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986

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 te	xt of H-phrases:		
	Eye Dam. 1	Serious eye damage/eye irritation Category 1	
	Flam. Liq. 4	Flammable liquids Category 4	
	Skin Corr. 1A	Skin corrosion/irritation Category 1A	
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
	H227	Combustible liquid	
	H314	Causes severe skin burns and eye damage	
	H318	Causes serious eye damage	
	H335	May cause respiratory irritation	
	fire hazard reactivity	 residual injury even though prompt medical attention was given. 1 - Must be preheated before ignition can occur. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. 	
HMIS	III Rating		
Health	1	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
Flamm	nability	 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) 	
Physic	cal	: 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.