

Benzyl bromide

Safety Data Sheet 1700929 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0

Date of issue: 09/22/2017

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Benzyl bromide
CAS No	: 100-39-0
Product code	: 1700-9-29
Formula	: C7H7Br
Synonyms	: alpha-Bromotoluene; (Bromomethyl)benzene
Other means of identification	: MFCD00000172
1.2. Relevant 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 supplier of the sa	afety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificat	tion
2.1. Classification of the substance	
Classification (GHS-US)	
Eye Irrit. 2A H319 - Causes serious eye	irritation
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16	irritation
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements	irritation
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16	e irritation bry irritation
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Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	e irritation bry irritation
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 irritation bry irritation : irritation : irritation : irritation : Warning : H227 - Combustible liquid H315 - Causes skin irritation H319 - Causes serious eye irritation

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		P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish 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				
Other h		: Lach	rymator.		
2.4.	Unknown acute toxicity (GHS US)				
Not app	blicable				
SECT	ION 3: Composition/information	on ir	gredients		
3.1.	Substance				
Substa	nce type	: Mone	o-constituent		
Name	•		Product identifier	%	Classification (GHS-US)
(Main c	bromide onstituent)		(CAS No) 100-39-0	<= 100	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
	t of H-phrases: see section 16				
3.2.	Mixture				
Not app					
	ION 4: First aid measures				
4.1.	Description of first aid measures	· In oo	se of accident or if you feel unwell, seek	modical advice	immodiately (chaw the lobel
FIISt-all	d measures general		e possible). Move the affected personnel		
First-aid	d measures after inhalation		ove person to fresh air and keep comfort ration. Get immediate medical advice/atto		ng. If not breathing, give artificial
First-aid	d measures after skin contact		n with plenty of soap and water. Remove cal advice/attention.	contaminated c	lothing and shoes. Get immediate
First-aid	d measures after eye contact		ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get		
First-aid	d measures after ingestion		OT induce vomiting. Never give anything h out with water. Get immediate medical		•
4.2.	Most important symptoms and effects	s, both	acute and delayed		
Sympto	ms/injuries		most important known symptoms and effe and/or in section 11.	ects are describ	ed in the labelling (see section
Sympto	ms/injuries after inhalation		rial is destructive to tissue of the mucuou ness of breath, headache, nausea.	is membranes a	nd upper respiratory tract. Cough,
4.3.	Indication of any immediate medical a	attentic	on and special treatment needed		
Treat s	ymptomatically.				
SECT	ION 5: Firefighting measures				
5.1.	Extinguishing media				
Suitable	e extinguishing media		nol resistant foam. Carbon dioxide. Dry pounding fire.	owder. Use exti	nguishing media appropriate for
5.2.	Special hazards arising from the subs	stance	or mixture		
Fire ha	zard		mal decomposition generates: Carbon ox		
Explosi	on hazard		of explosion if heated under confinement ainers. May form flammable/explosive vap		ay or fog for cooling exposed
5.3.	Advice for firefighters				
Firefigh	ting instructions	: In ca	se of fire: Evacuate area. Fight fire remot	tely due to the ri	sk of explosion.
Protect	ion during firefighting		r gas tight chemically protective clothing i ratus. For further information refer to sec		

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SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment 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. 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. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition. 6.2. Environmental precautions Avoid release to the environment. Notify authorities if product enters severs or public waters. 6.3. 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			
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7.1. Precautions for safe handling			
Additional 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.			
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, including any incompatibilities			
Technical measures : Comply with applicable regulations.			
Storage conditions : Keep container closed when not in use. Keep away from ignition sources. Moisture sensitive. Keep contents under inert gas.			
Incompatible materials : Refer to Section 10 on Incompatible Materials.			
Storage area : Store in dry, well-ventilated area. Light sensitive.			

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.

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SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Appearance	: Colorless to yellow liquid.
Color	: Colorless Yellow
Odor	: sharp Irritating
Odor threshold	: No data available
рН	: No data available
Melting point	: -31 °C
Freezing point	: No data available
Boiling point	: 198 - 199 °C
Flash point	: 86 °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	: 1 mm Hg (at 32.2 °C)
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.438 g/ml (@ 25 °C)
Molecular mass	: 171.03 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	: 1.575 (@ 20 °C)
SECTION 10: Stability and reactivit	У
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and s	torage 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	
Alcohols. Amines. Bases. Oxidizing agents. St	eel.
10.6. Hazardous decomposition produc	
	azardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological informa	ation
11.1. Information on toxicological effect	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
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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	: 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

: UN1737 Benzyl bromide, 6.1, II

- UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)
- : UN1737
- : Benzyl bromide
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison
 - 8 Corrosive



Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)

- : II Medium Danger
- : 202
- : 243

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DOT Special Provisions (49 CFR 172.102)	:	 A3 - For combination packaging, if glass inner packaging (including ampoules) are used, they must be packed with absorbent material in tightly closed metal receptacles before packing in outer packaging. A7 - Steel packaging must be corrosion-resistant or have protection against corrosion. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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. N33 - Aluminum drums are not authorized. N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material. T8 - 4 178.274(d)(2) Normal Prohibited TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively. TP12 - This material is considered highly corrosive to steel. TP13 - Self-contained breathing apparatus must be provided when this hazardous material is transported by sea.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	none
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	30 L
DOT Vessel Stowage Location	:	D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded.
DOT Vessel Stowage Other	:	13 - Keep as dry as reasonably practicable, 40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	:	156
Other information	:	No supplementary information available.
TDG No additional information available		
Transport by sea UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Packing group (IMDG)	:	1737 BENZYL BROMIDE 6.1 - Toxic substances II - substances presenting medium danger
Air transport UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA) Packing group (IATA) SECTION 15: Regulatory information	:	1737 Benzyl bromide 6.1 - Toxic Substances II - Medium Danger

SECTION 15: Regulatory information 15.1. US Federal regulations

Benzyl bromide (100-39-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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.

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15.2. International regulations

CANADA

Benzyl bromide (100-39-0)

Listed on the Canadian DSL (Domestic Sustances List)

EU-Regulations

No additional information available

National regulations

Benzyl bromide (100-39-0)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Canadian IDL (Ingredient Disclosure List) Listed on INSQ (Mexican national Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations	
Benzyl bromide (100-39-0)	
State or local regulations	U.S Massachusetts - Right To Know List
-	U.S New Jersey - Right to Know Hazardous Substance List

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:

Serious eye damage/eye irritation Category 2A
Flammable liquids Category 4
Skin corrosion/irritation Category 2
Specific target organ toxicity (single exposure) Category 3
Combustible liquid
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation
 : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
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 & IIIA)
: 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.

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.