

SIGMA-ALDRICH

Material Safety Data Sheet

Version 3.2
Revision Date 01/11/2008
Print Date 08/18/2008

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : **Benzyl bromide**
Product Number : B17905
Brand : Aldrich
Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA
Telephone : +1 800-325-5832
Fax : +1 800-325-5052
Emergency Phone # : (314) 776-6555

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : alpha-Bromotoluene
Formula : C7H7Br
Molecular Weight : 171.04 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Benzyl bromide			
100-39-0	202-847-3	602-057-00-2	-

3. HAZARDS IDENTIFICATION

Emergency Overview
OSHA Hazards
Combustible Liquid
Target Organ Effect
Harmful by ingestion.
Corrosive
Target Organs
Central nervous system
HMIS Classification
Health Hazard: 3
Chronic Health Hazard: *
Flammability: 2
Physical hazards: 1

NFPA Rating
Health Hazard: 3
Fire: 2
Reactivity Hazard: 1

Aldrich - B17905
Delivery 0829847086-000030 Purchase Order 35791W

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Potential Health Effects

Inhalation : May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May cause respiratory tract irritation.
Skin : May be harmful if absorbed through skin. Causes skin burns.
Eyes : May cause eye irritation. Causes eye burns.
Ingestion : Harmful if swallowed. Causes burns.

4. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Flammable properties
Flash point : 86 °C (187 °F) - closed cup
Ignition temperature : no data available
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.
Further information
Water hydrolyzes material liberating acidic gas which in contact with metal surfaces can generate flammable and/or explosive hydrogen gas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
Environmental precautions
Do not let product enter drains.
Methods for cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
Storage
Keep container tightly closed in a dry and well-ventilated place.
Light sensitive. Moisture sensitive.

Aldrich - B17905
Delivery 0829847086-000030 Purchase Order 35791W

Sigma-Aldrich Corporation
www.sigma-aldrich.com

RECEIVED
AUG 25 2008
Safety & Environment
Health

00002002

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves.

Eye protection

Safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid, clear
Colour	light brown
Odour	unpleasant

Safety data

pH	no data available
Melting point	-3 - -1 °C (27 - 30 °F)
Boiling point	196 - 198 °C (385 - 388 °F)
Flash point	86 °C (187 °F) - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1.440 g/cm ³
Water solubility	no data available
Relative vapour density	5.91 - (Air = 1.0)

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Conditions to avoid

Exposure to moisture.

Materials to avoid

Bases, Alcohols, Amines, Oxidizing agents, Corrodes steel.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen bromide gas

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Potential Health Effects

Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin burns.
Eyes	May cause eye irritation. Causes eye burns.
Ingestion	Harmful if swallowed. Causes burns.
Target Organs	Central nervous system,

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

13. DISPOSAL CONSIDERATIONS

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION**DOT (US)**

UN-Number: 1737 Class: 6.1 (8) Packing group: II
 Proper shipping name: Benzyl bromide

IMDG

UN-Number: 1737 Class: 6.1 (8) Packing group: II EMS-No: F-A, S-B
 Proper shipping name: BENZYL BROMIDE
 Marine pollutant: No

IATA

UN-Number: 1737 Class: 6.1 (8) Packing group: II
 Proper shipping name: Benzyl bromide

15. REGULATORY INFORMATION**OSHA Hazards**

Combustible Liquid, Target Organ Effect, Harmful by ingestion., Corrosive

TSCA Status

On TSCA Inventory

DSL Status

All components of this product are on the Canadian DSL list.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Benzyl bromide	100-39-0	1989-12-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Benzyl bromide	100-39-0	1989-12-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Benzyl bromide	100-39-0	1989-12-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION**Further information**

Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. 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 applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

RECEIVED

AUG 25 2008

Safety & Environmental Health

00002003

Cost:

2500

3249 annual

ROI sheet

Sent

Srubio - msds 631

www.msdsonline.com