# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.0 Revision Date 09/15/2009 Print Date 06/14/2012

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Ethyl 4-bromobenzoate

Product Number : 363774 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

Formula :  $C_9H_9BrO_2$ Molecular Weight : 229.07 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Ethyl 4-bromobenzoate			
5798-75-4	227-347-2	-	-

#### 3. HAZARDS IDENTIFICATION

## **Emergency Overview**

# **OSHA Hazards**

No known OSHA hazards

#### **HMIS Classification**

Health Hazard: 1
Flammability: 1
Physical hazards: 0

#### **NFPA Rating**

Health Hazard: 0 Fire: 1 Reactivity Hazard: 0

# **Potential Health Effects**

InhalationSkinMay be harmful if inhaled. May cause respiratory tract irritation.May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation. **Ingestion** May be harmful if swallowed.

#### 4. FIRST AID MEASURES

#### 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

Flush eyes with water as a precaution.

#### 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 > 113 °C (> 235 °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.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### Methods for cleaning up

Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

# Handling

Normal measures for preventive fire protection.

#### Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

## Personal protective equipment

#### Respiratory protection

Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

For prolonged or repeated contact use protective 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 clear, liquid
Colour colourless

Safety data

pH no data available

Melting point no data available

Boiling point 131 °C (268 °F) at 19 hPa (14 mmHg)

Flash point > 113 °C (> 235 °F) - closed cup

Ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available

Density 1.403 g/mL at 25 °C (77 °F)

Water solubility no data available Partition coefficient: POW: 3.303

n-octanol/water

#### 10. STABILITY AND REACTIVITY

#### Storage stability

Stable under recommended storage conditions.

## Materials to avoid

Strong oxidizing agents

#### 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.

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

a carcinogen or potential carcinogen by OSHA.

## Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **Potential Health Effects**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Skin May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation. May be harmful if swallowed. Ingestion

#### 12. ECOLOGICAL INFORMATION

## Elimination information (persistence and degradability)

no data available

## **Ecotoxicity effects**

no data available

## Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

# 13. DISPOSAL CONSIDERATIONS

#### **Product**

Observe all federal, state, and local environmental regulations.

## Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

## DOT (US)

Not dangerous goods

**IMDG** 

UN-Number: 3082 Class: 9 Packing group: III EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethyl 4-bromobenzoate)

Marine pollutant: No

IATA

Aldrich - 363774

UN-Number: 3082 Class: 9 Packing group: III

> Sigma-Aldrich Corporation www.sigma-aldrich.com

Proper shipping name: Environmentally hazardous substance, liquid n.o.s. (Ethyl 4-bromobenzoate)

#### 15. REGULATORY INFORMATION

#### **OSHA Hazards**

No known OSHA hazards

#### **DSL Status**

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

CAS-No. 5798-75-4

Ethyl 4-bromobenzoate

# **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

No SARA Hazards

## **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

## Pennsylvania Right To Know Components

CAS-No.

Revision Date

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Revision Date

**New Jersey Right To Know Components** 

CAS-No.

Revision Date

Ethyl 4-bromobenzoate

5798-75-4

## 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**

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