Sigma-Aldrich

#### SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Version 6.3 Revision Date 04.11.2019 Print Date 03.03.2022 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

### **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers Product name	:	Ethyl 6-bromohexanoate
	Product Number Brand REACH No. CAS-No.	:	324728 Aldrich A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline. 25542-62-5
1.2	2 Relevant identified uses of the substance or mixture and uses advised against		of the substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Manufacture of substances
1.3	.3 Details of the supplier of the safety data sheet		the safety data sheet
	Company	:	Sigma-Aldrich (Shanghai) Trading Co.Ltd. 509 Renqing Road Zhangjiang High Tech East Park, Pudong SHANGHAI 201201 SHANGHAI CHINA
	Telephone Fax		+86 21 6141-5566 +86 21 6141-5567
1.4	Emergency telephone number		
	Emorgonov Phone #		±86 233 83880000

Emergency Phone # : +86 532 83889090

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

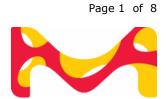
**Classification according to Regulation (EC) No 1272/2008** Flammable liquids (Category 3), H226 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 Label elements

#### Labelling according Regulation (EC) No 1272/2008

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Pictogram	
Signal word	Warning
Hazard statement(s) H226 H315 H319 H335	Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
Precautionary statement(s) P210 P302 + P352 P305 + P351 + P338	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes.
1303 + 1331 + 1330	Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Synonyms	: Ethyl 6-bromocapronate 6-Bromohexanoic acid ethyl ester
Formula Molecular weight CAS-No. EC-No.	: C <sub>8</sub> H <sub>15</sub> BrO <sub>2</sub> : 223,11 g/mol : 25542-62-5 : 247-085-2
Component	Classification

Ethyl 6-bromohexanoate		
	Flam. Liq. 3; Skin Irrit. 2; <	= 100 %
	Eye Irrit. 2; STOT SE 3;	
	H226, H315, H319, H335	

For the full text of the H-Statements mentioned in this Section, see Section 16.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### **General advice**

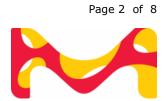
Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

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Concentration

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

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 No data available

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media Dry powder Dry sand

Unsuitable extinguishing media Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture Carbon oxides, Hydrogen bromide gas

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

#### SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures 6.1 Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

- 6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Methods and materials for containment and cleaning up 6.3
- Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- 6.4 **Reference to other sections** For disposal see section 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe 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. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

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. Store in cool place.

May darken on storage

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### Components with workplace control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

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

#### **Personal protective equipment**

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

#### **Body Protection**

Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a fullface 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).

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#### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	128 - 130 °C at 21 hPa - lit.
g)	Flash point	58,3 °C - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
I)	Vapour density	No data available
m)	Relative density	1,254 g/mL at 25 °C
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
Other safety information		

No data available

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

9.2

No data available

#### **10.2 Chemical stability**

Stable under recommended storage conditions.

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- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** Heat, flames and sparks.
- **10.5 Incompatible materials** Strong oxidizing agents, Strong bases
- 10.6 Hazardous decomposition products
   Hazardous decomposition products formed under fire conditions. Carbon oxides, Hydrogen bromide gas
   Other decomposition products No data available
   In the event of fire: see section 5

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity No data available

**Skin corrosion/irritation** No data available

Serious eye damage/eye irritation No data available

**Respiratory or skin sensitisation** No data available

Germ cell mutagenicity No data available

#### Carcinogenicity

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.

**Reproductive toxicity** 

No data available

## Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

## Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

#### **Additional Information**

RTECS: Not available

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

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#### **SECTION 12: Ecological information**

### **12.1 Toxicity**

No data available

- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

No data available

#### **SECTION 13: Disposal considerations**

#### **13.1** Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

#### **Contaminated packaging**

Dispose of as unused product.

SECTION 14: Transport information			
14.1 UN nui ADR/RI	<b>nber</b> D: 3272	IMDG: 3272	IATA: 3272
<b>14.2 UN proper shipping name</b> ADR/RID: ESTERS, N.O.S. (Ethyl 6-bromohexanoate) IMDG: ESTERS, N.O.S. (Ethyl 6-bromohexanoate) IATA: Esters, n.o.s. (Ethyl 6-bromohexanoate)			
14.3 Transp ADR/RI	ort hazard class(e D: 3	es) IMDG: 3	IATA: 3
14.4 Packag ADR/RI		IMDG: III	IATA: III
<b>14.5 Enviro</b> ADR/RI	nmental hazards D: no	IMDG Marine pollutant: no	IATA: no
-	l precautions for un a available	ser	

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#### **SECTION 15: Regulatory information**

# **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. REACH - Restrictions on the manufacture, : placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) REACH - Restrictions on the manufacture, : placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

#### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

#### **SECTION 16: Other information**

#### Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### Further information

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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 Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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