

# Safety Data Sheet

according to UK REACH Regulation

## Dibromomethane

Revision date: 09.02.2023

Product code: 842.0000.XXX

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

#### 1.1. Product identifier

Dibromomethane

##### Further trade names

Methylene bromide

CAS No: 74-95-3  
Index No: 602-003-00-8  
EC No: 200-824-2

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.3. Details of the supplier of the safety data sheet

Company name: ABX advanced biochemical compounds  
Biomedizinische Forschungsreagenzien GmbH  
Street: Heinrich-Gläser-Straße 10-14  
Place: 01454 Radeberg  
Telephone: +49 3528 4041 60  
e-mail: info@abx.de  
Contact person: Dr. Christoph Meyer  
e-mail: meyer@abx.de  
Internet: <http://www.abx.de>

Telefax: +49 3528 4041 65

Telephone: +49 3528 4041 8732

#### 1.4. Emergency telephone number:

+49 3528 4041 60

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GB CLP Regulation

Acute Tox. 4; H332  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### GB CLP Regulation

Signal word: Warning

Pictograms:



##### Hazard statements

H332 Harmful if inhaled.  
H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P273 Avoid release to the environment.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

##### Special labelling of certain mixtures

EUH059 (OLD) Hazardous to the ozone layer.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

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Sum formula: CH<sub>2</sub>Br<sub>2</sub>

Molecular weight: 173.83

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
74-95-3	dibromomethane			95 - < 100 %
	200-824-2	602-003-00-8		
	Acute Tox. 4, Aquatic Chronic 3; H332 H412			

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
74-95-3	200-824-2	dibromomethane	95 - < 100 %
	inhalation: LC50 = 20 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 4000 mg/kg; oral: LD50 = 108 mg/kg		

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration. Call a physician in any case!

**After contact with skin**

Take off immediately all contaminated clothing, including underwear and shoes. After contact with skin, wash immediately with plenty of water and soap. Call a physician in any case!

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

**After ingestion**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Rinse mouth thoroughly with water. Medical treatment necessary.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Water spray. alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder.

**5.2. Special hazards arising from the substance or mixture**

In case of fire may be liberated: Carbon dioxide. Carbon monoxide Bromine hydrogen (HBr).

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Wear personal protection equipment. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation. Remove persons to safety.

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### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Do not eat, drink, smoke or sneeze at the workplace.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

#### Further information on storage conditions

storage temperature:

up to °C: 30

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Additional advice on limit values

To date, no national critical limit values exist.

### 8.2. Exposure controls

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Tightly sealed safety glasses.

##### Hand protection

Tested protective gloves are to be worn: Single-use gloves. NBR (Nitrile rubber).

##### Skin protection

Lab apron. Chemical resistant safety shoes.

## SECTION 9: Physical and chemical properties

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

Physical state:	liquid	
Colour:	colourless light yellow	
Boiling point or initial boiling point and boiling range:		96 - 98 °C
Water solubility: (at 15 °C)		11,7 g/L
Solubility in other solvents miscible with most organic solvents		
Density (at 20 °C):		2,49 g/cm <sup>3</sup>

## SECTION 10: Stability and reactivity

### 10.3. Possibility of hazardous reactions

Violent reaction with: K

### 10.5. Incompatible materials

Oxidizing agents, strong. Alkaline earth metals.

### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Bromine. Bromine hydrogen (HBr).

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**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
74-95-3	dibromomethane				
	oral	LD50 mg/kg	108	Rat	
	dermal	LD50 mg/kg	4000	Rabbit	
	inhalation vapour	LC50	20 mg/l	Rat	
	inhalation dust/mist	ATE	1,5 mg/l		

**SECTION 12: Ecological information****12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of UK REACH.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Consult the appropriate local waste disposal expert about waste disposal.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	UN 2664
<b>14.2. UN proper shipping name:</b>	Dibrommethan
<b>14.3. Transport hazard class(es):</b>	6.1
<b>14.4. Packing group:</b>	III
Hazard label:	6
Transport category:	2
Tunnel restriction code:	E

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID number:</b>	UN 2664
<b>14.2. UN proper shipping name:</b>	Dibromomethane
<b>14.3. Transport hazard class(es):</b>	6.1
<b>14.4. Packing group:</b>	III

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	UN 2664
<b>14.2. UN proper shipping name:</b>	Dibromomethane
<b>14.3. Transport hazard class(es):</b>	6.1
<b>14.4. Packing group:</b>	III

**Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number or ID number:</b>	UN 2664
<b>14.2. UN proper shipping name:</b>	Dibromomethane

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**14.3. Transport hazard class(es):** 6.1**14.4. Packing group:** III

### SECTION 15: Regulatory information

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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

##### National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

### SECTION 16: Other information

#### Relevant H and EUH statements (number and full text)

H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.
EUH059	(OLD) Hazardous to the ozone layer.