



Preparing for the New Era of Laboratories

## SAFETY DATA SHEET (SDS)

According to regulation (EU) no.1907/2006

### **BROMINE 99% for Synthesis**

PRODUCT CODE : B-3017

CAS No : 7726-95-6

FORMULA : Br<sub>2</sub>

UN No : 1744

# SAFETY DATA SHEET (SDS)

## BROMINE 99% for Synthesis



SDS Number : 0076

Date : April 13, 2026

Version : 1.0

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

- 1.1 Product Name** : BROMINE 99% for Synthesis  
**Synonyms** : Bromine liquid  
**CAS No.** : 7726-95-6  
**HS Code** : 2801.3020  
**Chemical Formula** : Br<sub>2</sub>  
**Molecular Weight** : 159.82 g/mol  
**Product Code** : B-3017  
**Brand** : Labotiq  
**1.2 Manufacturer** : Labotiq  
**Address** : Jl.Terapi Raya AD2-Bumi Menteng Asri Bogor, Jawa Barat Indonesia – 16111  
**Website** : [www.labotiq.net](http://www.labotiq.net)  
**Email** : [labotiq.id@gmail.com](mailto:labotiq.id@gmail.com)  
**For information** : Phone : (+62-251) 839110, 8311662, Fax : (+62-251) 83135710  
**Emergency number** : +6281316894650  
**1.3 Application** : Laboratory chemicals, Manufacture of substances

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

- |                                                 |                                                |
|-------------------------------------------------|------------------------------------------------|
| Acute toxicity, (Category 1)                    | H330: Fatal if inhaled.                        |
| Skin corrosion, (Sub-category 1A)               | H314: Causes severe skin burns and eye damage. |
| Serious eye damage, (Category 1)                | H318: Causes serious eye damage.               |
| Short-term (acute) aquatic hazard, (Category 1) | H400: Very toxic to aquatic life.              |

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

Pictogram



Signal word

Danger

Hazard statement(s)

H314

Causes severe skin burns and eye damage.

H330

Fatal if inhaled.

H400

Very toxic to aquatic life.

Precautionary statement(s)

P260

Do not breathe mist or vapors.

P273

Avoid release to the environment.

# SAFETY DATA SHEET (SDS)

## BROMINE 99% for Synthesis



SDS Number : 0076

Date : April 13, 2026

Version : 1.0

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P280               | Wear protective gloves/ protective clothing/ eye protection/ face protection.                                                    |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.                                     |
| P304 + P340 + P310 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.             |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

### Reduced labelling (≤125 ml)

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H330

Fatal if inhaled.

H314

Causes severe skin burns and eye damage.

#### Precautionary statements

P260

Do not breathe mist or vapors.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. 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.

#### Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

# SAFETY DATA SHEET (SDS)

## BROMINE 99% for Synthesis



SDS Number : 0076

Date : April 13, 2026

Version : 1.0

### 3.1 Substances

Synonyms : Bromine liquid  
 Formula : Br<sub>2</sub>  
 Molecular weight : 159.82 g/mol  
 CAS-No. : 7726-95-6

### 3.2 Mixture

Hazardous ingredients according to Regulation (EC) No 1272/2008

| Component                                                                  | Classification                                                                                                | Concentration |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------|
| Bromine<br>CAS-No. 7726-95-6<br>EC-No. 231-778-1<br>Index-No. 035-001-00-5 | Acute Tox. 1; Skin Corr. 1A; Eye Dam. 1; Aquatic Acute 1; H330, H314, H318, H400 M-Factor - Aquatic Acute: 10 | <=100 %       |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses

#### If swallowed

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

### 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

# SAFETY DATA SHEET (SDS)

## BROMINE 99% for Synthesis



SDS Number : 0076

Date : April 13, 2026

Version : 1.0

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

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

Hydrogen bromide gas

Container explosion may occur under fire conditions.

Not combustible. Ambient fire may liberate hazardous vapours.

**5.3 Advice for firefighters**

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

**5.4 Further information**

May intensify fire; oxidizer. Suppress (knock down) gases/vapors/mists with a water spray jet.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

**6.2 Environmental precautions**

Do not let product enter drains

**6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemisorb®). Dispose of properly. Clean up affected area.

**6.4 Reference to other sections**

For disposal see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

**Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2

**7.2 Conditions for safe storage, including any incompatibilities****Storage conditions**

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Do not store in polyethylene containers. Handle and open container with care.

# SAFETY DATA SHEET (SDS)

## BROMINE 99% for Synthesis



SDS Number : 0076

Date : April 13, 2026

Version : 1.0

**Storage class**

Storage class (TRGS 510): 6.1B: Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

**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****8.2 Exposure control****Appropriat engineering controls**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

**Personal protective equipment****Eye/face protection**

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

**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 EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Full contact**

Material: Nitrile rubber

Minimum layer thickness: 0,7 mm

Break through time: 480 min

Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

**Splash contact**

Material: Nitrile rubber

Minimum layer thickness: 0,7 mm

Break through time: 10 min

Material tested: Butoject® (KCL 898)

**Body Protection**

protective clothing

**Respiratory protection**

Recommended Filter type: Filter type B

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**Control of environmental exposure**

Do not let product enter drains.

# SAFETY DATA SHEET (SDS)

## BROMINE 99% for Synthesis



SDS Number : 0076

Date : April 13, 2026

Version : 1.0

### SECTION 9: Physical and chemical properties

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

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| Appearance                              | Form: liquid                             |
|                                         | Colour: brown                            |
| Odour                                   | suffocating                              |
| Odour Threshold                         | No data available                        |
| pH                                      | No data available                        |
| Melting point/freezingpoint             | Melting point/range: -7,2 °C             |
| Initial boiling point and boiling range | 58,8 °C                                  |
| Flash point                             | No data available                        |
| Evaporation rate                        | No data available                        |
| Flammability (solid, gas)               | The product is not flammable             |
| Upper/lower flammability or             | Upper explosion limit: No data available |
|                                         | Lower explosion limit: No data available |
| explosive limits                        | No data available                        |
| Vapour pressure                         | 233 hPa at 20 °C                         |
| Vapour density                          | No data available                        |
| Density                                 | 3,119 g/mL at 25 °C                      |
| Relative density                        | No data available                        |
| Water solubility                        | 36,5 g/l at 20 °C - (External MSDS)      |
| Partition coefficient: noctanol/water   | Not applicable for inorganic substances  |
| Auto-ignition temperature               | No data available                        |
| Decomposition temperature               | No data available                        |
| Viscosity                               | Viscosity, kinematic: No data available  |
|                                         | Viscosity, dynamic: 1,02 mPa.s at 20 °C  |
| Explosive properties                    | No data available                        |
| Oxidizing properties                    | none                                     |

#### 9.2 Other safety information

|                        |                             |
|------------------------|-----------------------------|
| Relative vapor density | 5,52 at 15 °C - (Air = 1.0) |
|------------------------|-----------------------------|

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No data available

#### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

#### 10.3 Possibility of hazardous reactions

Exothermic reaction with:

- hydrides
- amides
- phenols
- Ether
- halogen-halogen compounds
- halogen oxides
- nonmetals
- Alcohols
- Organic Substances
- alkali oxides

# SAFETY DATA SHEET (SDS)

## BROMINE 99% for Synthesis



SDS Number : 0076

Date : April 13, 2026

Version : 1.0

Alkali metals  
 semimetals  
 Acetylene  
 Amines  
 Ketones  
 Aldehydes  
 nitrides  
 Germanium  
 rubber  
 phosphides  
 Metals  
 Sodium hydroxide  
 iron/iron-containing compounds  
 Mercury  
 Titanium  
 Boranes  
 Risk of explosion with:  
 Ammonia  
 azides  
 silanes  
 zinc diethyl  
 Hydrogen  
 Organic Substances  
 Ozone  
 Nitriles  
 halogen oxides  
 phosphines  
 Potassium  
 sodium  
 carbides  
 Nickel carbonyl  
 phosphine  
 phosphorus  
 Reducing agents  
 oxidisable substances  
 Hydrogen  
 with  
 Pressure  
 heat  
 Metals  
 with  
 Moisture.  
 Lithium  
 sensitive to shock  
 antimony  
 in powder form  
 Risk of ignition or formation of inflammable gases or vapours with:  
 acetylidene  
 Aluminum  
 halides  
 hydrides  
 Hydrocarbons  
 Fluorine  
 fluorides  
 lithium silicide

**SAFETY DATA SHEET (SDS)**  
**BROMINE 99% for Synthesis**

SDS Number : 0076

Date : April 13, 2026

Version : 1.0

Oxides of phosphorus  
Tin  
arsenic  
in powder form

**10.4 Conditions to avoid**

no information available

**10.5 Incompatible materials**

No data available

**10.6 Hazardous decomposition products**

in the event of fire: See section 5.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

LD50 Oral - Rat - 2.600 mg/kg

LC50 Inhalation - Mouse - female - 4 h - 0,1427 mg/l - vapor

Remarks: (ECHA)

Dermal: No data available

**Skin corrosion/irritation**

Remarks: Causes severe burns.

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

**Serious eye damage/eye irritation**

Remarks: Causes serious eye damage.

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

In vivo tests did not show mutagenic effects

Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: US-EPA

Result: positive

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: US-EPA

Result: positive

Test Type: Micronucleus test

Species: Mouse

Cell type: Bone marrow

Application Route: Intraperitoneal

Method: US-EPA

Result: negative

**Carcinogenicity**

No data available

# SAFETY DATA SHEET (SDS)

## BROMINE 99% for Synthesis



SDS Number : 0076

Date : April 13, 2026

Version : 1.0

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

Endocrine disrupting properties

Product:

Assessment :

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

RTECS: EF9100000

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Cyanosis, Cardiovascular effects., Respiratory disorders, Lachrymation, Nose bleeding, Vertigo, Irritability, loss of appetite, joint pain, Abdominal pain, Diarrhea, hoarseness To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Liver - Irregularities - Based on Human Evidence

### SECTION 12: Ecological information

**12.1 Toxicity**

Toxicity to fish

static test LC50 - *Lepomis macrochirus* (Bluegill sunfish) - 0,54 mg/l - 96 h

Remarks: (ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)

static test NOEC - *Daphnia magna* (Water flea) - 0,46 mg/l - 48 h

Remarks: (ECOTOX Database)

**12.2 Persistence and degradability**

The methods for determining the biological degradability are not applicable to inorganic substances.

**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**

Discharge into the environment must be avoided.

# SAFETY DATA SHEET (SDS)

## BROMINE 99% for Synthesis



SDS Number : 0076

Date : April 13, 2026

Version : 1.0

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

No data available

### SECTION 14: Transport information

#### 14.1 UN number

ADR/RID: 1744

IMDG: 1744

IATA: 1744

#### 14.2 UN proper shipping name

ADR/RID: BROMINE

IMDG: BROMINE

IATA: Bromine

Passenger Aircraft: Not permitted for transport

Cargo Aircraft: Not permitted for transport

#### 14.3 Transport hazard class(es)

ADR/RID: 8 (6.1)

IMDG: 8 (6.1)

IATA: 8 (6.1)

#### 14.4 Packaging group

ADR/RID: I

IMDG: I

IATA: -

#### 14.5 Environmental hazards

ADR/RID: yes

IMDG Marine pollutant: yes

IATA: no

#### 14.6 Special precautions for user

Further information

No data available

### 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.

Authorisations and/or restrictions on use

National legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

H1 ACUTE TOXIC

E1 ENVIRONMENTAL HAZARDS

9 Bromine

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

**SAFETY DATA SHEET (SDS)**  
**BROMINE 99% for Synthesis**

SDS Number : 0076

Date : April 13, 2026

Version : 1.0

**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.**

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

**National Fire Protection Association (U.S.A.):**

Health: 3

Flammability: 0

Reactivity: 0

**Further information**

*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. Labotiq shall not be held liable for any damage resulting from handling or from contact with the above product.*

Version : 1.0

Revision Date : April 13, 2026