# Vickers Laboratories Ltd - Safety Data Sheet

0890

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 16 April 2021
Date printed: 12 August 2023

## **Section 1. Identification**

1.1 Product Identifier 0890

Product Name BROMINE WATER

CAS Number Mixture

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

#### 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

### 1.3 Supplier Vickers Laboratories Ltd



Grangefield Industrial Estate

Richardshaw Road

Pudsey

West Yorkshire

LS28 6QW

UNITED KINGDOM

 Phone
 44 0113 2362811

 Fax
 +44(0)113 2362703

 Email
 safety@viclabs.co.uk

 Website
 www.viclabs.co.uk

**1.4 Emergency Telephone** (08:00-16:30) +44(0) 113 2362811

(24hr) 112

(Have this document to hand)

## Section 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

### Classification according to regulation 1272/2008/EC

Acute toxicity, category 2 (inhalation) H330: Fatal if inhaled.

Skin corrosion/irritation, category 1A H314: Causes severe skin burns and eye damage.

Hazard to aquatic environment, category 1 H400: Very toxic to aquatic life.

#### 2.2 Label elements

#### Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms







Hazard Statements Causes severe skin burns and eye damage. Very toxic to aquatic life. Fatal if inhaled.

Precautionary Statements Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED:

Rinse mouth. Do NOT induce vomiting. Store locked up. Avoid release to the environment.

## Section 3. Composition

#### 3.2 Mixtures

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Bromine	7726-95-6	231-778-1	01-2119461714-37-XXXX	<3%	Acute Tox. 1 (I), Skin Corr. 1A, Aquatic Acute 1

### Section 4. First Aid

#### 4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. In

severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aider

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

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

## **Section 5. Fire Fighting**

### 5.1 Extinguishing media

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

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

Hazards Presents no specific fire danger.

### 5.3 Advice for firefighters

Advice for firefighters Consider all other materials in the vicinity.

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it

is safe to do so.

#### 6.2 Environmental precautions

Environmental Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify the Environmental

Agency and local Environmental Health Officer if major spillage occurs.

### 6.3 Methods and material for containment and cleaning up

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with

copious amounts of water.

Minor Spillage Neutralise spill with soda ash, lime, calcium carbonate or sodium bicarbonate. Wash area down with copious

amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

### Section 7. Storage & Handling

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

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

Well ventilated, cool, dry storage.

#### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits				
			Long Term (8hr	TWA)	Short Term 15min period)		
Bromine	7726-95-6	<3%	0.1 ppm	0.7 mg/m-3	0.2 ppm	1.3 mg/m-3	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

maintained chemical cartridge respirator, or use self contained breathing apparatus.

Hand Protection Use nitrile gloves or PVC gauntlets.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

## Section 9. Physical & Chemical Properties

## 9.1 Information on basic physical and chemical properties

Appearance Clear orange solution. Odour Characteristic. 1 @ 20°C pН **Boiling Point** Aqueous solution Melting Point Not applicable Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable **Explosive Properties** No.

Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 1.0200

Water Solubility Completely miscible in water.

### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

**10.1** Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

**10.3** Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid No specific conditions.10.5 Incompatable Materials Strong oxidising agents.

10.6 Hazardous Decomposition May decompose to emit toxic and irritant fumes of hydrogen bromide.

Products

## Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes Causes serious eye damage.

Skin The liquid will be an irritant on brief or occasional exposure. May cause burns on prolonged contact.

LD50 Skin Not available

Ingestion Ingestion of large amounts may produce severe mouth burns, and if swallowed extensive damage to the

oesophagus. Symptoms may include salivation, thirst, difficulty in swallowing, pain, shock and vomiting.

LD50 Oral Not available

Inhalation Do not breathe fumes. May be fatal if inhaled.

LD50 Inhalation Not available
TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Other Information 5-10ppm is the threshold for irritation with severe irritation occurring at 50-100 ppm.

## Section 12. Ecological

degradability

12.1 Toxicity Neutralised material presents no specific environmental hazard.

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available

12.2 Persistence and No data available.

**12.3** Bioaccumulative potential No data available.

**12.4** Mobility in soil No data available.

12.5 Results of PBT & vPvB Assessment not required. assessment

**12.6** Other adverse effects None known at present.

## Section 13. Disposal Considerations

#### 13.1 Waste treatment methods

Disposal Methods Dilute in a large excess of water and carefully neutralise with soda ash, then wash to drain with copious amounts

of water.

Contaminated Packaging Carefully neutralise with a weak sodium hydroxide solution then wash out thoroughly with water. Use a licensed

waste disposer.

# Section 14. Transport Information

14.1 UN Number 174414.2 Proper Shipping Name Bromine

14.3 Transport classes

UN classification 8 Subsidiary hazard(s) 6.1 Transport category 1 ADR Hazard ID 886 Tunnel Restriction Code C/D

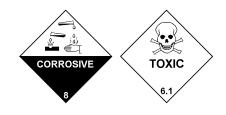
14.4 Packing Group I

**14.5 Environment hazards** See section 12.

14.6 Special precautions for No special precautions required.

user

**14.7 Transport in bulk** Not transported in bulk.



## Section 15. Regulatory Information

## $15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Acute toxicity, category 2 (inhalation); Skin corrosion/irritation, category 1A; Hazard to aquatic environment,

category 1

Signal word Danger

Hazard Pictograms







Hazard Statements H314, H400, H330

Causes severe skin burns and eye damage. Very toxic to aquatic life. Fatal if inhaled.

Precautionary Statements P280, P303+P361+P353, P305+P351+P338, P301+P330+P331, P405, P273

Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED:

Rinse mouth. Do NOT induce vomiting. Store locked up. Avoid release to the environment.

#### 15.2 Chemical safety assessment

Assessment not required.

## **Section 16. Other Information**

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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