Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 2.1 Revision date: 16 April 2021 12 August 2023

Date printed:

Section 1. Identification

Product Identifier 1521

> Product Name ZINC BROMIDE pure

CAS Number

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.

ZnBr =225.19 Molecular Formula

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 Vickers Laboratories Ltd **Supplier**



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

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

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 1B Acute toxicity, category 4 (oral)

Skin sensitization, category 1

Hazard to aquatic environment, category 2

H314: Causes severe skin burns and eye damage.

H302: Harmful if swallowed.

H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms







Hazard Statements Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic to

aquatic life with long lasting effects.

Precautionary Statements

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves / protective clothing / eye protection / face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Zinc bromide	7699-45-8	231-718-4		100%	Skin Corr. 1B,Acute Tox. 4 (O),Skin Sens. 1,Aquatic Chronic 2

Section 4. First Aid

4.1 Description of first aid measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists Eyes

OBTAIN MEDICAL ATTENTION.

Wash off skin thoroughly with water. If discomfort persists OBTAIN MEDICAL ATTENTION. Skin

Inhalation Remove from exposure. If breathing stops or shows signs of failing, apply artificial resuscitation. If there is

difficulty in breathing give oxygen if available.

Wash out the patients mouth thoroughly with water. Do not induce vomiting. OBTAIN MEDICAL Ingestion

ATTENTION.

Personal protection for first Wear protective gloves / eye protection.

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 May evolve toxic fumes if involved in a fire.

5.3 Advice for firefighters

Advice for firefighters Fire-fighters should wear protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use approved personal protective equipment. Personal Protection

Vickers Laboratories Ltd - Safety Data Sheet

Ref: 1521

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil.

6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.

Minor Spillage Shovel/sweep up into container for removal

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 dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Ensure storage conditions are very dry as material has a very high tendency to cake.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

I	Component	CAS No	Concentration	Workplace Exposure Limits				
				Long Term (8hr TWA)		Short Term 15min period)		
ĺ	Zinc bromide	7699-45-8	100%	-	-	-	-	

Exposure data source(s) No occupational exposure data currently available.

8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hand Protection Wear gloves.

Eye Protection Use chemical full face shield.

Skin Protection Avoid contact with skin. 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 White crystalline powder or granules.

Odour No specific odour. pH 5.25 @ 22.9 °C

Boiling Point 697 °C
Melting Point 394 °C
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 4.201

Water Solubility Moderately soluble 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

reactions

No data available.

10.4 Conditions to Avoid No specific conditions.10.5 Incompatable Materials Sodium and potassium.

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 Contact with the solid or dust will be extremely irritating to eyes and can cause chemical eye burns.

Skin Contact with the solid or dust will cause burns. Contact with the solid or dust may be absorbed across the skin in

harmful amounts.

LD50 Skin >2000 mg/Kg Rabbit

Ingestion Ingestion of large amounts may cause violent abdominal pain and vomiting.

LD50 Oral 1260 mg/Kg Mouse

Inhalation Inhalation of dust will produce irritation of the eyes, nose, throat and respiratory tract. Prolonged exposure to dust

or fume concentrations above the occupational exposure limits may cause breathing problems, leading to

bronchitis, pulmonary oedema and eventually unconsciousness.

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.

Section 12. Ecological

12.1 Toxicity Toxic to aquatic species and may cause long term adverse effects in the aquatic environment.

LC50 Algal 0.136 mg Zn/L Algae

LC50 Crustacea 0.228 mg Zn/L Daphnia (48 hours)

LC50 Fish 0.169 mg Zn/L Rainbow Trout (96 hours)

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 & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Never dispose of into water courses or sewerage systems. Dispose of to a licensed land fill site.

Contaminated Packaging Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number 3260

14.2 Proper Shipping Name Corrosive solid, acidic, inorganic, N.O.S. (Zinc

Bromide)

14.3 Transport classes

UN classification 8
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 80
Tunnel Restriction Code E

14.4 Packing Group II

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 Skin corrosion/irritation, category 1B; Acute toxicity, category 4 (oral); Skin sensitization, category 1; Hazard to

aquatic environment, category 2

Signal word Danger

Hazard Pictograms







CORROSIVE

Hazard Statements H302, H314, H317, H411

Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic to

aquatic life with long lasting effects.

Precautionary Statements P264, P270, P280, P301+P330+P331, P303+P361+P353, P305+P351+P338

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves / protective clothing / eye protection / face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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.

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.

Revision number: 2.1 (Supercedes revision 2.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 12 August 2023

Copyright: 2023 Vickers Laboratories Ltd