Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 4.0 (Replaces revision 3.0 of 25 January 2023)

Revision date: Date printed:

06 November 2023 11 November 2023

Section 1. Identification

Product Identifier 0593

> Product Name BUFFER SOLUTION (for METROHM ZINC ANALYSER)

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.

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



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UNITED KINGDOM

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(24hr)

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Reproductive toxicity, category 1B

H360: May damage fertility or the unborn child.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



Hazard Statements May damage fertility or the unborn child.

Section 3. Composition

3.2 Mixtures

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Sodium tetraborate, decahydrate	1303-96-4	215-540-4	01-2119490790-32-XXXX	<0.7%	Eye Irrit. 2,Repr. 1B
Boric Acid	10043-35- 3	233-139-2	01-2119486683-25-XXXX	<0.1%	Repr. 1B
Potassium Cyanide	151-50-8	205-793-3		0.1%	Met. Corr. 1,Acute Tox. 1 (O),Acute Tox. 1 (D),Acute Tox. 1 (I),STOT RE 1,Aquatic Acute 1,Aquatic Chronic 1

Section 4. First Aid

4.1 Description of first aid measures

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

OBTAIN MEDICAL ATTENTION.

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

irritation persists or there is any sign of skin damage, seek IMMEDIATE MEDICAL ASSISTANCE

Inhalation Remove from exposure.

If conscious give plenty of water to drink. Do not induce vomiting. OBTAIN MEDICAL ATTENTION Ingestion

URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

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 other people to enter area.

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

amounts of water

Minor Spillage 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 to a minimum.

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)		
Sodium tetraborate, decahydrate	1303-96-4	<0.7%	-	-	5.0 ppm	-	
Boric Acid	10043-35-3	<0.1%	-	-	-	-	
Potassium Cyanide	151-50-8	0.1%	-	1.0 mg/m-3	-	1.0 mg/m-3	

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

8.2 Exposure controls

chemical cartridge respirator, or use self contained breathing apparatus.

Hand Protection Use nitrile gloves or PVC gauntlets.

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 colourless liquid.

Odour Odourless.
pH 6-7 @ 20 °C
Boiling Point 100 °C
Melting Point 0 °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 1.016

Water Solubility Completely 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 No data available.

reactions

10.4 Conditions to Avoid No specific conditions.

10.5 Incompatable Materials Alkalis.

0.6 Hazardous Decomposition None unusual.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes The liquid will be irritating to the eyes but unlikely to cause serious injury.

Skin Repeated or prolonged contact may defat the skin producing irritation and dermatitis.

LD50 Skin Not available

Ingestion Low order of acute toxicity.

LD50 Oral Not available

Inhalation High concentrations of vapour will produce irritation of the eyes, nose, throat and respiratory tract.

LD50 Inhalation Not available
TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects Evidence of reproductive effects.

Section 12. Ecological

12.1 Toxicity Small amounts present no specific environmental hazard. Neutralised material presents no specific environmental

hazard.

No data available.

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.

12.5 Results of PBT & vPvB Assessment not required.

assessment

12.4 Mobility in soil

degradability

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 Wash out containers with water. Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number Non-restricted14.2 Proper Shipping Name Non-restricted

14.3 Transport classes

UN classification None Subsidiary hazard(s) None Transport category None

ADR Hazard ID Non-restricted
Tunnel Restriction Code Non-restricted

14.4 Packing Group None

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 Reproductive toxicity, category 1B

Signal word Danger

Hazard Pictograms



Hazard Statements H360

May damage fertility or the unborn child.

Precautionary Statements P280, P308+P313, P405, P501

Wear protective gloves / protective clothing / eye protection / face protection. IF exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents / container to an approved waste disposal plant

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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