# Vickers Laboratories Ltd - Safety Data Sheet

3680

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

Revision: 2.0 Revision date: 08 February 2022 (Replaces revision 1.0 of 18 November 2015) Date printed: 03 February 2023

### **Section 1. Identification**

1.1 Product Identifier 3680

Product Name PHOSPHATE BUFFER SOLUTION (15g/L KI)

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



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(Have this document to hand)

### Section 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

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

Spec target organ tox - repeat, category 2

H373: May cause damage to organs through prolonged or repeated exposure.

#### 2.2 Label elements

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

Signal word Warning

Hazard Pictograms



Hazard Statements May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements** 

 $Do \ not \ breathe \ dust \ / \ fume \ / \ gas \ / \ mist \ / \ vapours \ / \ spray. \ Wash \ thoroughly \ after \ handling. \ Do \ not \ eat, \ drink \ or \ drink \ drink \ or \ drink \ or \ drink \ drink \ or \ drink \ drink \ or \ drink \ or \ drink \$ smoke when using this product. Get Medical advice/attention if you feel unwell. Dispose of contents / container

to an approved waste disposal plant

## **Section 3. Composition**

#### 3.2 Mixtures

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Orthophosphoric acid	7664-38-2	231-633-2	01-2119485924-24-XXXX	8%	Skin Corr. 1B,Acute Tox. 4 (O),Eye Dam. 1
Potassium iodide	7681-11-0	231-659-4	01-2119906339-35-XXXX	1.5%	STOT RE 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. 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.

#### 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**

Enviromental 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	Long Term (8hr TWA)		Short Term 15min period)		
Orthophosphoric ac	id 7664-38-2	8%	-	1.0 mg/m-3	-	2.0 mg/m-3		
Potassium iodide	7681-11-0	1.5%	-	-	-	-		

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.

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 colourless liquid.

Odour Odourless. 2 @ 20°C pΗ **Boiling Point** Not available 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 Not available
Water Solubility C5202

#### 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 Ingestion of large amounts will cause severe internal irritation and damage, nausea, vomiting, abdominal pains

and diarrhoea.

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 None identified.

## Section 12. Ecological

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

hazard.

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

12.2 Persistence and No.

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 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 Spec target organ tox - repeat, category 2

Signal word Warning

Hazard Pictograms



Hazard Statements H373

May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements P260, P264, P270, P314, P501

Do not breathe dust / fume / gas / mist / vapours / spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Get Medical advice/attention if you feel unwell. 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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