# Vickers Laboratories Ltd - Safety Data Sheet

0430

(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 0430

Product Name COMBINED REAGENT (for METROHM TOC ANALYSER)

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

Oxidising liquid, category 3 Skin corrosion/irritation, category 2 Serious eye damage/irritation, category 2

Skin sensitization, category 1

H272: May intensify fire; oxidizer.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

#### 2.2 Label elements

## Labelling according to regulation 1272/2008/EC

Signal word Warning

Hazard Pictograms





Ref: 0430

Hazard Statements Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May intensify fire;

oxidizer.

Precautionary Statements Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. If

eye irritation persists: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention.

# **Section 3. Composition**

### 3.2 Mixtures

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Sodium persulphate	7775-27-1	231-892-1	01-2119495975-15-XXXX	>20%	Ox. Sol. 3,Acute Tox. 4 (O),Skin Irrit. 2,Eye Irrit. 2,Resp. Sens. 1,Skin Sens. 1,STOT SE 3 (I)
Orthophosphoric acid	7664-38-2	231-633-2	01-2119485924-24-XXXX	~10%	Skin Corr. 1B,Acute Tox. 4 (O),Eye Dam. 1

# 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. OBTAIN MEDICAL Eyes

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. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If

breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION

URGENTLÝ.

If conscious give plenty of water to drink. Do not induce vomiting. If unconscious place in the recovery position. Ingestion

OBTAIN MEDICAL ATTENTION 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 Water spray, foam, dry powder or carbon dioxide.

Unsuitable Media Do not use water jet.

### 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 Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

# Section 6. Accidental Release Measures

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

Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow Personal Protection

general use of area until it is safe to do so.

#### 6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. 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 . Protect from direct sunlight.

### 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 persulpha	te 7775-27-1	>20%	-	-	-	-		
Orthophosphoric a	acid 7664-38-2	~10%	-	1.0 mg/m-3	-	2.0 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 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 to pale yellow liquid.

Odour Odourless. nΗ Not applicable **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 Yes.

Vapour Pressure Not applicable Relative Density Not available

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

reactions

No data available.

**10.4** Conditions to Avoid

No specific conditions.

10.5 Incompatable Materials

Alkalis. Reacts with most metals to produce extremely flammable hydrogen gas. Reacts with

sulphide, phosphide, cyanide, carbide and silicides producing very toxic gases.

**10.6** Hazardous Decomposition

**Products** 

May produce hazardous fumes if involved in a fire. May liberate phosphorous oxide.

# Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes The liquid will be extremely irritating to eyes and can cause chemical eye burns. Damage can range from severe

irritation and corneal scarring to permanent blindness.

Skin The liquid will cause burns. Repeated exposure may cause dermatitis.

LD50 Skin Not available

Ingestion Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus. Moderately toxic

by ingestion.

LD50 Oral Not available

Inhalation Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes,

nose, throat and respiratory tract. High concentrations of vapour will seriously damage the membranes lining the

nose, throat and upper 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.

Other Information 1ppm of phosphoric acid mist is irritating.

# Section 12. Ecological

12.1 Toxicity Acidic, nutrient for undesirable algae. While acidity may be reduced by natural water hardness, the phosphate

may persist indefinitely.

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

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 Neutralised acid slurry can be buried in an approved land fill site. Never dispose of into water courses or

sewerage systems.

thoroughly with water.

## **Section 14. Transport Information**

**14.1 UN Number** 3216

14.2 Proper Shipping Name Persulphates, inorganic, aqueous solution

N.O.S. (Sodium persulphate)

14.3 Transport classes

UN classification 5.1
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 50
Tunnel Restriction Code E

14.4 Packing Group III

**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 Oxidising liquid, category 3; Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 2; Skin

sensitization, category 1

Signal word Warning

Hazard Pictograms





Hazard Statements H315, H319, H317, H272

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May intensify fire;

oxidizer.

Precautionary Statements P264, P280, P305+P351+P338, P337+P313, P332+P313

Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. If eye irritation persists: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention.

OXIDIZING

#### 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: 1.1 (Supercedes revision 1.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 12 August 2023

Copyright: 2023 Vickers Laboratories Ltd