# Vickers Laboratories Ltd - Safety Data Sheet

1424

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

Revision: 2.0 Revision date: 03 July 2023 (Replaces revision 1.0 of 05 October 2021) Date printed: 17 October 2025

## **Section 1. Identification**

1.1 Product Identifier 1424

Product Name ALUMINIUM STANDARD 100ppm (FOR SERES OL AL 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



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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 (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Oxidising liquid, category 2 H272: May intensify fire; oxidizer. Skin corrosion/irritation, category 2 H315: Causes skin irritation. Serious eye damage/irritation, category 2 H319: Causes serious eye irritation.

#### 2.2 Label elements

Labelling according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Signal word Danger

Hazard Pictograms





Hazard Statements May intensify fire; oxidizer. Causes skin irritation. Causes serious eye irritation.

Precautionary Statements Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. Do not breathe

fumes. Use only outdoors or in a well-ventilated area. If skin irritation occurs: Get medical advice/attention. If eye

irritation persists: Get medical advice/attention.

## Section 3. Composition

#### 3.2 Mixtures

Component	CAS No. EC No.	REACH No. Conc w/w	CLP Classification (1272/2008/CE)	
Perchloric acid	7601-90-3 231-512-4	<1.6%	Ox. Liq. 1,Skin Corr. 1A	

## 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.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water.

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 May evolve toxic fumes if involved in a fire. Contact with combustible material may cause a fire.

### 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 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)	
Perchloric acid	7601-90-3	<1.6%	-	-	-	-

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 Wear gloves.

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. pН <3 @ 20 °C ~100 °C **Boiling Point** ~0 °C Melting Point Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Not applicable **Auto Ignition Explosive Properties** No.

Oxidising Properties No.

Vapour Pressure Not applicable

Relative Density 1.000

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** Incompatible materials Alkalis. Potassium permanganate. Reacts with most metals to produce extremely flammable hydrogen gas.

Will decompose to emit toxic and irritant fumes of hydrogen chloride. Hazardous Decomposition

## Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes The liquid may be irritating to the eyes.

Skin Causes skin irritation.

LD50 Skin Not available

Ingestion Presents no significant hazard by ingestion.

LD50 Oral Not available

Inhalation Presents no significant health hazard by inhalation.

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

12.1 Toxicity No specific environmental hazard.

Not available LC50 Algal LC50 Crustacea Not available LC50 Fish Not available 12.2 Persistence and No data available.

degradability

12.3 Bioaccumulative potential No data available. 12.4 Mobility in soil No data available.

Results of PBT & vPvB

assessment

Assessment not required.

Other adverse effects None known at present.

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

Disposal Methods Neutralise with lime water or sodium hydroxide prior to disposal. Flush to drain.

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) as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

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

Signal word Danger

Hazard Pictograms





Hazard Statements H272, H315, H319

May intensify fire; oxidizer. Causes skin irritation. Causes serious eye irritation.

Precautionary Statements P264, P280, P260, P271, P332+P313, P337+P313

Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. Do not breathe fumes. Use only outdoors or in a well-ventilated area. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

#### 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: 2.0 (Supercedes revision 1.0)

Revision date: 03 July 2023

Reviewed by chemist: 03 July 2023

Printed date: 17 October 2025

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