Vickers Laboratories Ltd - Safety Data Sheet

(EC) 1272 (2009)

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

Revision: 1.1 Revision date: 16 April 2021 Date printed: 03 February 2023

Section 1. Identification

1.1 Product Identifier 1353

Product Name POTASSIUM PERSULPHATE pure

CAS Number 7727-21-1

REACH Registration No 01-2119495676-19-XXXX

Molecular Formula $\kappa_2 s_2 o_8 = 270.31$

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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(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 solid, category 3

Acute toxicity, category 4 (oral)

Skin corrosion/irritation, category 2

Serious eye damage/irritation, category 2

H272: May intensify fire; oxidizer.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Respiratory sensitization, category 1 H334: May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Skin sensitization, category 1 H317: May cause an allergic skin reaction. Spec target organ tox - single, category 3 H335: May cause respiratory irritation.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms







Hazard Statements May intensify fire; oxidizer. Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation.

Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an

allergic skin reaction.

Precautionary Statements Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing

/ combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective

gloves / protective clothing / eye protection.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Potassium persulphate	7727-21-1	231-781-8	01-2119495676-19-XXXX	>99%	Ox. Sol. 3,Acute Tox. 4 (O),Skin Irrit. 2,Eye Irrit. 2,Resp. Sens. 1,Skin Sens. 1,STOT SE 3 (I)

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. If discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. In severe cases or if exposure has been great, OBTAIN

MEDICAL ATTENTION.

Ingestion If conscious give plenty of water to drink. 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 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.
Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire. Mixtures with combustible materials are flammable. Mixtures with

finely divided combustible materials can react explosively.

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

Personal Protection Evacuate area immediately. If contact with acid is possible, use full protective clothing and breathing apparatus.

6.2 Environmental precautions

Environmental Keep 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 Shovel/sweep up into 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 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. Store in a suitable area for oxidising agents. Keep well separated from combustible materials.

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	Short Term 15min period)	
Potassium persulphate	7727-21-1	>99%	-	-	-	-	

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.

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 solid.

Odour No specific odour.

pH 3 @ 20°C solution.

Boiling Point Not available

Melting Point 100 °C (Decomposition)

Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable

Explosive Properties No.

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Oxidising Properties A strong oxidising agent.

Vapour Pressure Not applicable Relative Density 1.3900 Water Solubility 50%

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 but decomposes rapidly above 100C.

10.3 Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid Will undergo self accelerating decomposition above 170C. Avoid contact with rust and traces of metal

10.5 Incompatable Materials Alkalis. Combustible materials.

10.6 Hazardous Decomposition Decomposes to form toxic fumes of oxides of sulphur, flammable oxygen and toxic ozone.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Causes serious eye irritation.

Skin The solid and solutions may be irritating to the skin. May cause skin sensitisation.

LD50 Skin Not available

Ingestion Harmful if swallowed. Causes immediate irritation of the mouth, throat and gastro-intestinal tract.

LD50 Oral 1000mg/kg Rat

Inhalation Inhalation of dust will produce irritation of the eyes, nose, throat and respiratory tract. May cause sensitisation by

dust inhalation.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity No information is available.

Reproductive Effects None identified.

Section 12. Ecological

12.1 Toxicity Low levels are readily bio-degraded in the environment.

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 not required.

assessment

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

Disposal Methods Dispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and

national regulations.

Contaminated Packaging Wash out containers with water.

Section 14. Transport Information

14.1 UN Number 1492

14.2 Proper Shipping Name Potassium persulphate

14.3 Transport classes

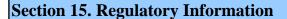
UN classification 5.1 Subsidiary hazard(s) None 3 Transport category ADR Hazard ID 50 **Tunnel Restriction Code** E 14.4 Packing Group Ш

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.



15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Oxidising solid, category 3; Acute toxicity, category 4 (oral); Skin corrosion/irritation, category 2; Serious eye

damage/irritation, category 2; Respiratory sensitization, category 1; Skin sensitization, category 1; Spec target organ

OXIDIZING

AGENT

tox - single, category 3

Signal word Danger

Hazard Pictograms







Hazard Statements H272, H302, H319, H335, H315, H334, H317

> May intensify fire; oxidizer. Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Precautionary Statements P210, P220, P221, P280

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective

gloves / protective clothing / eye protection.

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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