Vickers Laboratories Ltd - Safety Data Sheet

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

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

Section 1. Identification

Product Identifier 1337

> Product Name POTASSIUM CHLORATE

CAS Number 3811-04-9

REACH Registration No 01-2119494917-18-XXXX

KC10 =122.55 Molecular Formula

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 Vickers Laboratories Ltd **Supplier**



Grangefield Industrial Estate

Richardshaw Road

Pudsey

West Yorkshire LS28 6OW

UNITED KINGDOM

Phone 44 0113 2362811 +44(0)113 2362703 Fax safety@viclabs.co.uk Email Website www.viclabs.co.uk

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 solid, category 1 Acute toxicity, category 4 (oral) Acute toxicity, category 4 (inhalation)

Hazard to aquatic environment, category 2

H271: May cause fire or explosion; strong oxidizer.

H302: Harmful if swallowed. H332: Harmful if inhaled.

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Ref: 1337



Hazard Statements May cause fire or explosion; strong oxidizer. Harmful if inhaled. Harmful if swallowed. Toxic to aquatic life with

long lasting effects.

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 chlorate	3811-04-9	231-887-4	01-2119494917-18-XXXX	>99.5%	Ox. Sol. 1,Acute Tox. 4 (O),Acute Tox. 4 (I),Aquatic Chronic 2

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. If discomfort persists Eyes

OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water.

Inhalation Remove from exposure. If material has reacted with an acid to form, chlorine, seek immediate medical assistance.

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

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

Only re-enter area with full protective clothing and breathing apparatus.

6.2 Environmental precautions

Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Enviromental

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	on Workplace		Exposure Limits		
				Long Term (8hr TWA)	Short Term 15min period)		
I	Potassium chlorate	3811-04-9	>99.5%	-	=	-	-	

Exposure data source(s) No occupational exposure data currently available.

8.2 Exposure controls

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 powder.

Odour No specific odour.

pH 7 @ 20°C solution.

Boiling Point 400°C Melting Point 356°C

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

Explosive Properties No.

Oxidising Properties A strong oxidising agent.

Vapour Pressure Not applicable Relative Density 2.5000 Water Solubility 7.3%

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 Avoid contact with acids or combustible materials.

10.5 Incompatable Materials Many organic compounds. Combustible materials. Acids.

0.6 Hazardous Decomposition Liberates oxygen on decomposition which will assist in a fire. May produce hazardous fumes if involved in a fire.

roducts

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Contact with the solid or dust may be irritating to the eyes.

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

LD50 Skin Not available

Ingestion Harmful if swallowed. Readily absorbed through digestive tract and acts as a strong blood poison. Lthal dose 5-

30g Symptoms include greyish-blue complexion, vomiting, diarrhoea, shortness of breath leading to collapse.

LD50 Oral 1870mg/kg Rat

Inhalation Harmful 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.

Section 12. Ecological

12.1 Toxicity Low levels are readily bio-degraded in the environment. Higher levels are toxic to marine and plant life.

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

essment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Do not dispose of as domestic waste.

Contaminated Packaging Wash out containers with water.

Section 14. Transport Information

14.1 UN Number 1485

14.2 Proper Shipping Name Potassium chlorate

14.3 Transport classes

UN classification 5.1
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 50
Tunnel Restriction Code E

14.4 Packing Group II

14 5 Environment begands

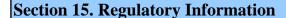
14.5 Environment hazards See section 12.

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 1; Acute toxicity, category 4 (oral); Acute toxicity, category 4 (inhalation); Hazard to

aquatic environment, category 2

Signal word Danger

Hazard Pictograms







OXIDIZING

Hazard Statements H271, H332, H302, H411

May cause fire or explosion; strong oxidizer. Harmful if inhaled. Harmful if swallowed. Toxic to aquatic life with

long lasting effects.

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.

Revision number: 1.1 (Supercedes revision 1.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 03 February 2023

Copyright: 2023 Vickers Laboratories Ltd