# Vickers Laboratories Ltd - Safety Data Sheet

..lotion (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 0532

Product Name POTASSIUM CHROMATE pure

CAS Number 7789-00-6

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.

Molecular Formula K2 CrO =194.19

#### 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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lhr) 11

(Have this document to hand)

# Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

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

Skin corrosion/irritation, category 2 H315: Causes skin irritation.

Serious eye damage/irritation, category 2

H319: Causes serious eye irritation.

Skin sensitization, category 1 H317: May cause an allergic skin reaction.

Germ cell mutagenicity, category 1B H340: May cause genetic defects.

Carcinogenicity, category 1B H350: May cause cancer.

Spec target organ tox - single, category 3 H335: May cause respiratory irritation. Hazard to aquatic environment, category 1 H400: Very toxic to aquatic life.

Hazard to aquatic environment, category 1 H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

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

Signal word Danger

Hazard Pictograms







May cause cancer. May cause genetic defects. Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects. Hazard Statements

**Precautionary Statements** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Wear protective gloves / protective clothing / eye protection / face protection. Wash thoroughly after handling. Avoid breathing dust / fume / gas / mist / vapours / spray. If skin irritation or a rash occurs: Get medical

advice/attention.

# Section 3. Composition

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Potassium chromate	7789-00-6	232-140-5		>99.7%	Skin Irrit. 2,Eye Irrit. 2,Skin Sens. 1,Muta. 1B,Carc. 1B,STOT SE 3 (I),Aquatic Acute 1,Aquatic Chronic 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. Unless contact has been

slight OBTAIN MEDICAL ATTENTION

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. Unless

contact has been slight OBTAIN MEDICAL ATTENTION

Inhalation Remove from exposure. Irrigate mouth and nasal passage with water. OBTAIN MEDICAL ATTENTION.

If conscious give several glasses of water to drink and 5-10g of ascorbic acid dissolved in water. Do not induce vomiting. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY. Ingestion

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 Not combustible but assists burning. Contact with combustible material may cause a fire.

#### 5.3 Advice for firefighters

Advice for firefighters 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 Avoid breathing dust-wear respiratory 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 material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs. Keep combustible material away from spillage.

#### 6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Small areas of contamination should be treated with ferrous sulphate

solution to reduce the chromium to the safer (trivalent) form and the pH adjusted to 8.5 prior to disposal. Wash

area down with copious amounts of water.

Minor Spillage Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable

container for disposal. Carry out this operation under fume extraction. Small areas of contamination should be treated with ferrous sulphate solution to reduce the chromium to the safer (trivalent) form and the pH adjusted to

8.5 prior to disposal. 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 below the recommended limits,

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a suitable area for oxidising agents. Do not store on wooden surfaces. 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 15min period)		
Potassium chromate	7789-00-6	>99.7%	-	-	0.05 ppm -		

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

#### 8.2 Exposure controls

Respiratory Protection Use L.E.V. or natural ventilation to maintain dust concentrations below exposure limits. If not, use a well

maintained chemical cartridge respirator, or use self contained breathing apparatus.

Hand Protection Use nitrile gloves or PVC gauntlets.

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 Lemon yellow crystals.

Odour Odourless.
pH 9 @ 20°C 5%
Boiling Point Not available
Melting Point 975°C
Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable

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Auto Ignition Not applicable

**Explosive Properties** No.

Oxidising Properties A strong oxidising agent.

Vapour Pressure Not applicable Relative Density 2.7300 Water Solubility 39%

#### 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 starts to decompose at 500C liberating oxygen.

**10.3** Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid No specific conditions.

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

Liberates oxygen on decomposition which will assist in a fire. 10.6 **Hazardous Decomposition** 

Products

# Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

The solid and solutions will irritate the eyes and can cause conjunctivitis. Eyes

The solid and solutions will highly irritating and corrosive to the skin, local inflammation can occur from 5% Skin

solutions. Contact with broken skin may lead to ulcers especially on the hands and forearms. Can be absorbed

through the skin and cause systemic poisoning and subsequent kidney damage.

LD50 Skin

Ingestion Ingestion will cause severe internal irritation and damage, nausea, vomiting, abdominal pains and diarrhoea.

LD50 Oral 180mg/kg Mouse

Inhalation of dust will produce severe irritation of the eyes, nose, throat and respiratory tract. Causes Inhalation

inflammation of the larynx, bronchitis, and ulceration of the nasal septum.

LD50 Inhalation Not available **TCLo** Not available

Carcinogenicity It is suspected as a long term carcinogen in man but evidence is inconclusive.

Mutagenicity A mutagen.

Reproductive Effects No information is available.

# Section 12. Ecological

12.1 Toxicity Data for chromium ions in general [calculated as sodium chromate]: Toxic to fish >52 mg/l LC50: Algae toxic

>5mg/l: Daphnia toxic > 0.32 mg/l. Very Toxic to aquatic organisms and may cause long term adverse effects in

the aquatic environment.

LC50 Algal Not available Not available LC50 Crustacea 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.

12.6 Other adverse effects None known at present.

# **Section 13. Disposal Considerations**

#### 13.1 Waste treatment methods

Disposal Methods Never dispose of into water courses or sewerage systems. Treat with ferrous sulphate solution to reduce the

chromium to the safer (trivalent) form. The pH should be adjusted to 8.5, with sodium hydroxide or sodium

TOXIC

carbonate, prior to disposal.

Contaminated Packaging Use a licensed waste disposer.

# **Section 14. Transport Information**

14.1 UN Number 3288

14.2 Proper Shipping Name Toxic solid, inorganic, N.O.S. (Potassium

Chromate)

14.3 Transport classes

UN classification 6.1 Subsidiary hazard(s) None Transport category 2 60 ADR Hazard ID **Tunnel Restriction Code** Ε Ш

14.4 Packing Group

See section 12. 14.5 Environment hazards

14.6 Special precautions for No special precautions required.

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)

Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 2; Skin sensitization, category 1; Germ cell mutagenicity, category 1B; Carcinogenicity, category 1B; Spec target organ tox - single, category 3; Hazard to Classification

aquatic environment, category 1; Hazard to aquatic environment, category 1

Signal word Danger

Hazard Pictograms







**Hazard Statements** H350, H340, H319, H335, H315, H317, H410

> May cause cancer. May cause genetic defects. Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.

Hazard Statements (Packs of 500ml/g or less)

H350, H340, H319, H335, H317, H410

May cause cancer. May cause genetic defects. Causes serious eye irritation. May cause respiratory irritation. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.

P201, P202, P280, P264, P261, P333+P313 Precautionary Statements

> Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves / protective clothing / eye protection / face protection. Wash thoroughly after handling. Avoid breathing dust / fume / gas / mist / vapours / spray. If skin irritation or a rash occurs: Get medical

advice/attention.

Precautionary Statements (Packs of 500ml/g or less) P201, P202

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

### 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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