# 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 12 August 2023 Date printed:

### **Section 1. Identification**

**Product Identifier** 1899

> Product Name CHROMIUM (III) NITRATE 9H2O pure

CAS Number

**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.

Cr(NO,),.9H,O =400.15 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**



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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 1272/2008/EC

Oxidising solid, 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 1272/2008/EC

Signal word Danger

Hazard Pictograms





Ref: 1899

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

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)
ı	Chromic nitrate	7789-02-8	236-921-1		>98%	Ox. Sol. 2,Skin Irrit. 2,Eye Irrit. 2

### 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. If discomfort persists

OBTAIN MEDICAL ATTENTION.

Skin Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and wash before re-

use.

Inhalation Remove from exposure. If there is difficulty in breathing give oxygen if available.

Ingestion If conscious induce vomiting. OBTAIN MEDICAL ATTENTION.

Personal protection for first Wear protective gloves / eye protection.

aider

### 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.

### 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 Avoid breathing dust-wear respiratory protective equipment. Do not allow other people to enter area. Ensure no

sources of ignition.

#### 6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil.

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

Major Spillage Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is

complete.

Minor Spillage Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is

complete.

#### 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.

#### 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)	
Chromic nitrate	7789-02-8	>98%	-	-	-	0.5 mg/m-3

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

### 8.2 Exposure controls

Hand Protection Wear gloves.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

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 Dark violet fine crystals.

Odour No specific odour.

pH 2-3 @ 50g/l @ 20°C

Boiling Point 100 °C (Decomposition)

Melting Point 60 °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 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 No data available.

reactions

10.4 Conditions to Avoid

Hot surfaces, naked flames or other sources of ignition.

**10.5** Incompatable Materials Acids. Combustible materials. Oxidisable materials.

0.6 Hazardous Decomposition In combustion emits acrid fumes of oxides of chromium & nitric acid.

Products

### Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

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

Skin Contact with the solid or dust will be irritating to the skin.

LD50 Skin Not available

Ingestion May be harmful by ingestion.

LD50 Oral 3250mg/kg Rat

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

LD50 Inhalation Not available
TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Under investigation.

Reproductive Effects Under investigation.

### Section 12. Ecological

**12.1** Toxicity Toxic to aquatic organisms. Very toxic to fish.

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

national regulations.

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

national regulations.

### **Section 14. Transport Information**

**14.1 UN Number** 2720

14.2 Proper Shipping Name Chromium nitrate

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 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)

No special precautions required.

Classification Oxidising solid, 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 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: 12 August 2023

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