Vickers Laboratories Ltd - Safety Data Sheet

UIS.

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

Revision: 2.0 Revision date: 16 April 2021 (Replaces revision 1.1 of 16 April 2021) Date printed: 12 August 2023

Section 1. Identification

1.1 Product Identifier 0183

Product Name COBALT (II) CHLORIDE 6H2O pure

CAS Number 7791-13-1

REACH Registration No 01-2119517584-37-XXXX

Molecular Formula CoCl₂ .6H₂ O =237.93

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 1272/2008/EC

Acute toxicity, category 4 (oral) H302: Harmful if swallowed.
Serious eye damage/irritation, category 1 H318: Causes serious eye damage.

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.

Germ cell mutagenicity, category 2 H341: Suspected of causing genetic defects.

Carcinogenicity, category 1B H350: May cause cancer.

Reproductive toxicity, category 1B H360: May damage fertility or the unborn child.

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









Hazard Statements Harmful if swallowed. Causes serious eye damage. May cause cancer. Suspected of causing genetic defects. May damage fertility or the unborn child. May cause an allergic skin reaction. May cause allergy or asthma symptoms

or breathing difficulties if inhaled. Very toxic to aquatic life with long lasting effects.

Precautionary Statements Obtain special instructions before use. Avoid release to the environment. Wear protective gloves / protective

clothing / eye protection / face protection. IF exposed or concerned: 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)
Cobaltous chloride	7791-13-1	231-589-4	01-2119517584-37-XXXX	<100%	Acute Tox. 4 (O), Eye Dam. 1, Resp. Sens. 1, Skin Sens. 1, Muta. 2, Carc. 1B, Repr. 1B, 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. 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.

Ingestion Wash out the patients mouth thoroughly with water. In severe cases or if exposure has been great, OBTAIN

MEDICAL ATTENTION.

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.

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.

6.2 Environmental precautions

Environmental 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 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.

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.

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)		
Cobaltous chloride	7791-13-1	<100%	-	-	0.1 ppm -		

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 Pink/purple crystalline solid.

Odour No specific odour. 5 @ 20°C pН 1049 °C **Boiling Point** Melting Point 735 °C Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable

Explosive Properties No. Oxidising Properties No.

Vapour Pressure Not applicable Vickers Laboratories Ltd - Safety Data Sheet

Ref: 0183

Relative Density 3.3600

Water Solubility 585.8 g/L Moderately 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 No specific conditions.

10.5 Incompatable Materials Strong oxidising agents. Alkali metals.

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

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 >2000 mg/Kg Rat

Ingestion Harmful if swallowed.

LD50 Oral 537 mg/Kg Rat

Inhalation Harmful by inhalation. Contact with the solid or dust will produce irritation of the eyes, nose, throat and

respiratory tract.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Carcinogenicity, category 1B.

Mutagenicity No information is available.

Reproductive Effects No information is available.

Section 12. Ecological

12.1 Toxicity Toxic to aquatic species and may cause long term adverse effects in the aquatic environment.

LC50 Algal 24.1 µg/L Algae

LC50 Crustacea 0.61 mg/L Daphnia magna LC50 Fish 1.5 mg/L Fathead Minnow

12.2 Persistence and No data available.

degradability

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

13.1 Waste treatment methods

Disposal Methods Dispose of to a licensed land fill site.

Section 14. Transport Information

14.1 UN Number 3288

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

Chloride)

14.3 Transport classes

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

14.4 Packing Group III

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 Acute toxicity, category 4 (oral); Serious eye damage/irritation, category 1; Respiratory sensitization, category 1;

Skin sensitization, category 1; Germ cell mutagenicity, category 2; Carcinogenicity, category 1B; Reproductive toxicity, category 1B; Hazard to aquatic environment, category 1; Hazard to aquatic environment, category 1

TOXIC

Signal word Danger

Hazard Pictograms









Hazard Statements H302, H318, H350, H341, H360, H317, H334, H410

Harmful if swallowed. Causes serious eye damage. May cause cancer. Suspected of causing genetic defects. May damage fertility or the unborn child. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Very toxic to aquatic life with long lasting effects.

Precautionary Statements P201, P273, P280, P308+P313

Obtain special instructions before use. Avoid release to the environment. Wear protective gloves / protective clothing / eye protection / face protection. IF exposed or concerned: 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.

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