Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 1.2 Revision date: 16 April 2021 12 August 2023 Date printed:

Section 1. Identification

Product Identifier 1699

> Product Name COBALT METAL POWDER

CAS Number 7440-48-4

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.

Co = 58.933Molecular 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 **Supplier** Vickers Laboratories Ltd

ICKERS

Grangefield Industrial Estate

Richardshaw Road

Pudsey

West Yorkshire **LS28 6QW**

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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

Flammable solid, category 1

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.

Hazard to aquatic environment, category 4 H413: May cause long lasting harmful effects to aquatic life.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Flammable solid. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause long lasting harmful effects to aquatic life. Hazard Statements

Precautionary Statements Keep away from heat / sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving

equipment. Avoid breathing dust / fume / gas / mist / vapours / spray. In case of inadequate ventilation wear respiratory protection. IF ON SKIN: Wash with plenty of soap and water. Wear protective gloves / protective

clothing / eye protection / face protection.

Section 3. Composition

3.1 Substances

Component	CAS No. EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Cobalt metal powder	7440-48-4 231-158-0		>99%	Flam. Sol. 1,Resp. Sens. 1,Skin Sens. 1,Aquatic Chronic 4

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. If discomfort persists OBTAIN MEDICAL ATTENTION.

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 Presents no specific fire danger.

5.3 Advice for firefighters

Advice for firefighters Consider all other materials in the vicinity.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Presents no major hazards.

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 Shovel/sweep up into container for removal 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

No specific precautions.

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

Ī	Component	CAS No	Concentration	Workplace Exposure Limits				
l				Long Term	Long Term (8hr TWA)		Short Term 15min period)	
	Cobalt metal powder	7440-48-4	>99%	-	0.1 mg/m-3	-	-	

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

8.2 Exposure controls

Respiratory Protection Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

Hand Protection Wear gloves.

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

Skin Protection Avoid contact with skin.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Silver-grey metallic granules.

Odour No specific odour. pН Not applicable 2900°C **Boiling Point** Melting Point 1493°C Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable **Explosive Properties** No. No. Oxidising Properties

Vapour Pressure Not applicable Relative Density 8.9 @ 25°C Water Solubility Not available

9.2 Other information

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous

reactions

No data available.

10.4 Conditions to Avoid No specific conditions.

10.5 Incompatable Materials No specific materials to avoid.

10.6 Hazardous Decomposition None.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes There may be mild irritation at the site of contact. Skin Allergic skin reactions may occur from contact.

LD50 Skin Not available

Ingestion Low order of acute toxicity.

LD50 Oral 6171 Rat

Inhalation May cause allergy or asthma symptoms or breathing difficulties if inhaled.

LD50 Inhalation Not available **TCLo** Not available

Carcinogenicity Limited evidence of carcinogenic effect.

None identified. Mutagenicity None identified. Reproductive Effects

Section 12. Ecological

12.1 Toxicity May cause long term adverse effects in the aquatic 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.

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 Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number 3089

14.2 Proper Shipping Name Metal powder, flammable, N.O.S.

14.3 Transport classes

UN classification 4.1
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 40
Tunnel Restriction Code E
Packing Group II



14.4 Packing Group II

14.5 Environment hazards See section 12.

14.6 Special precautions for

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)

Classification Flammable solid, category 1; Respiratory sensitization, category 1; Skin sensitization, category 1; Hazard to aquatic

environment, category 4

No special precautions required.

Signal word Danger

Hazard Pictograms





Hazard Statements H228, H317, H334, H413

Flammable solid. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing

difficulties if inhaled. May cause long lasting harmful effects to aquatic life.

Precautionary Statements P210, P240, P261, P285, P302+P352, P280

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving equipment. Avoid breathing dust / fume / gas / mist / vapours / spray. In case of inadequate ventilation wear respiratory protection. IF ON SKIN: Wash with plenty of soap and water. Wear protective gloves / protective

clothing / eye protection / face 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: 1.2 (Supercedes revision 1.1)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 12 August 2023

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