

Printing date 29.09.2021 Version number 4 Revision: 29.09.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: SHERANAXOS

· Article number: 401063

· 1.2 Relevant identified uses of the substance or mixture and uses advised against:

No further relevant information available.

- · Application of the substance / the mixture: Metal alloy for dentistry
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

SHERA Werkstoff-Technologie GmbH & Co. KG

Espohlstraße 53 D-49448 Lemförde GERMANY sdb@shera.de

+ 49 (0) 54 43 . 99 33 . 0

- · Further information obtainable from: Department of product security.
- · 1.4 Emergency telephone number:

+49 5443 9933-0 This number is serviced during office hours.

Opening times: Monday to Thursday from 8 am . 5 pm, Friday from 8 am . 3 pm.

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008:

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 1B H350 May cause cancer. Repr. 1B H360F May damage fertility.

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008:

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms:



- · Signal word: Danger
- · Hazard-determining components of labelling:

cobalt

· Hazard statements:

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H360F May damage fertility.

H413 May cause long lasting harmful effects to aquatic life.

· Precautionary statements:

P261 Avoid breathing dust.

P273 Avoid release to the environment.

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P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P285 In case of inadequate ventilation wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P312 IF INHALED: Call a doctor if you feel unwell.

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents / container in accordance with local / regional / national / international

regulations.

· 2.3 Other hazards

There might be dusts and fumes from various components during mechanical or thermal processing (for example, grinding or milling). These can lead to health hazards if inhaled or through skin contact. Depending on the fineness of the dust, flammability cannot be ruled out.

- · Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:				
CAS: 7440-48-4	cobalt	50-70%		
EINECS: 231-158-0 Index number: 027-001-00-9	Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1B, H350; Repr. 1B, H360F; Skin Sens. 1, H317; Aquatic Chronic 4, H413			
CAS: 7440-47-3 EINECS: 231-157-5	chromium substance with a Community workplace exposure limit	30-35%		

· SVHC

· Non-dangerous ingredients				
CAS: 7439-98-7	molybdenum	1-<10%		
EINECS: 231-107-2				

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately rinse with water.

In case of skin irritation, seek medical treatment.

May produce an allergic reaction.

· After eye contact:

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Call a doctor immediately.

· 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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· 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fire with alcohol resistant foam.

ABC powder.

Sand.

- · For safety reasons unsuitable extinguishing agents: No further relevant information available.
- · 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Metal vapours and metal oxides in the form of smoke.

- 5.3 Advice for firefighters Do not allow water used to extinguish fire to enter drains or waterways.
- · Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid formation of dust.

Use respiratory protective device against the effects of fumes / dust / aerosol.

Do not breathe dust.

- **6.2 Environmental precautions** Do not allow to enter sewers / surface or ground water.
- · 6.3 Methods and material for containment and cleaning up

Pick up mechanically.

Avoid generation of dust.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation / exhaustion at the workplace.

Prevent formation of dust.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: No special measures are necessary.
- · Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with lin	nit values that require monitoring at the workplace:
7440-48-4 cobalt	
WEL (Great Britain)	Long-term value: 0.1 mg/m³ as Co; Carc, Sen
MAK (Germany)	Inhalable fraction; cf.Section XIII
7440-47-3 chromiui	m
WEL (Great Britain)	Long-term value: 0.5 mg/m ³
AGW (Germany)	Long-term value: 2 E mg/m³ 1(I);10, EU
IOELV (EU)	Long-term value: 2 mg/m³ as Cr
7439-98-7 molybde	num
MAK (Germany)	cf. Section IIb and XII

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke or sniff while working.

Avoid contact with the eyes and skin.

Ensure good ventilation / exhaustion at the workplace.

Do not inhale dust / smoke / mist.

· Respiratory protection:

Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection



Protective gloves

· Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Protective gloves have to be replaced at the first sign of deterioration.

- · Eye/face protection Safety glasses.
- \cdot Body protection: Light weight protective clothing.
- Environmental exposure controls See Section 7. No further action is necessary.

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SECTION 9			

· 9.1 Information on basic physical and chemical properties

· General Information

Colour: Metallic
 Odour: Odourless
 Melting point/freezing point: 1340 - 1400 °C

 \cdot Boiling point or initial boiling point and boiling

range Undetermined.

Flammability Not determined.

Flash point: Not applicable.

Auto-ignition temperature: Not applicable.

pH Not applicable.

Viscosity: Not applicable.

· Solubility

water: Insoluble.
Partition coefficient n-octanol/water (log value)
Vapour pressure: Not applicable.

· Density and/or relative density

· **Density:** 8.3 g/cm³

· 9.2 Other information

· Appearance:

· Form: Solid

· Important information on protection of health and environment, and on safety.

• Explosive properties: Product does not present an explosion hazard.

· Solvent content:

· Solids content: 100 %

· Change in condition:

• Evaporation rate Not applicable.

· Information with regard to physical hazard classes

· Explosives Void. · Flammable gases Void. · Aerosols Void. · Oxidising gases Void. · Gases under pressure Void. · Flammable liquids Void. · Flammable solids Void. · Self-reactive substances and mixtures Void. · Pyrophoric liquids Void. · Pyrophoric solids Void. · Self-heating substances and mixtures Void.

· Substances and mixtures, which emit flammable

gases in contact with water Void.

Oxidising liquids Void.
Oxidising solids Void.
Organic peroxides Void.
Corrosive to metals Void.
Desensitised explosives Void.

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SECTION 10: Stability and reactivity

- · 10.1 Reactivity Stable under normal conditions of storage and transport of solids.
- 10.2 Chemical stability Stable under normal storage and handling conditions.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions Oxygen may result in contact with acids.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials Strong acid.
- · 10.6 Hazardous decomposition products No further relevant information available.

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

7440-48-4 cobalt

Oral LD50 6,170 mg/kg (Rat)

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Minor irritation to the eyes in the event of processing dust.
- · Respiratory or skin sensitisation

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

May cause an allergic skin reaction.

- · Germ cell mutagenicity
- Suspected of causing genetic defects.
- · Carcinogenicity

May cause cancer.

- · Reproductive toxicity
- May damage fertility.
- $\cdot \, \textbf{STOT-single exposure} \, \, \textbf{Based on available data}, \, \textbf{the classification criteria are not met}.$
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) No information available.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- $\cdot \ \textbf{12.3 Bioaccumulative potential} \ \ \text{No further relevant information available}.$
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

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- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

At present there are no ecotoxicological assessments.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Waste disposal key:

The waste disposal code as prescribed in the EuropeanWaste Catalogue (EWC) depends on the waste producer and can thus vary for a product. The waste disposal code should thus be obtained separately from the waste producer in each case.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

· 14.1 UN number or ID number		
	Void.	
· ADR, ADN, IMDG, IATA	voia.	
· 14.2 UN proper shipping name		
· ADR, ADN, IMDG, IATA	Void.	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
· Class	Void.	
44.4 Per 11 and a second		
· 14.4 Packing group		
· ADR, IMDG, IATA	Void.	
· 14.5 Environmental hazards:		
· Marine pollutant:	No.	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Maritime transport in bulk according	g to IMO	
instruments	Not applicable.	
· UN "Model Regulation":	Void.	

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations:
- · Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

This information is based on the state of knowledge and experience pertaining on the date of issue. The information is not to be taken as a guarantee of product properties and do not constitute the basis for a contractual legal relationship. The details must not be changed or transferred to other products. Duplication in an unchanged state is permissible.

· Relevant phrases

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H360F May damage fertility.

H413 May cause long lasting harmful effects to aquatic life.

· Department issuing SDS: Department of product security.

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Resp. Sens. 1: Respiratory sensitisation . Category 1 Skin Sens. 1: Skin sensitisation . Category 1

Muta. 2: Germ cell mutagenicity . Category 2
Carc. 1B: Carcinogenicity . Category 1B

Repr. 1B: Reproductive toxicity . Category 1B

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard . Category 4

 \cdot * Data compared to the previous version altered.

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