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SEC	FION 1: Identification	of the substan	ce/mixtu	re and of the company/undertaking	
1.1					
	Tradename:			CoCr BioStar	
1.2	1.2 Relevant identified uses of the substance or mixture and uses advised against: Application of the substance / the mixture:			No further relevant information available.	
				For the production of dental prostheses in the dental laboratory	
1.3	Details of the supplier of the safety data sh			eet	
	Manufacturer:	·····,		Eisenbacher Dentalwaren ED GmbH	
	Street / mailbox:			DrKonrad-Wiegand-Str. 9	
	Country code. / post	al code / city:		DE-63939 Woerth / GERMANY	
	Phone:	-		+49 (0) 9372-94 04 0	
	Fax:			+49 (0) 9372-94 04 29	
	E-mail / Website:				
	Further information of	obtainable from:		product management tel.: +49 93 72 - 94 04 - 0	
				or by mail: info@eisenbacher.de	
	Supplier:			SILADENT Dr. Böhme & Schöps GmbH	
	Street / mailbox:			Im Klei 26	
	Country code. / post	al code / city:		DE - 38644 Goslar	
	Phone:	,		+49 (0) 53 21 / 37 79 – 0	
	Fax:			+49 (0) 53 21 / 38 96 32	
	E-mail / Website:			info@siladent.de - www.siladent.de	
1.4	Emergency telepho	ne number:		Tel.: +49 (0) 9372 9404 0, Monday to Friday 8.00 a.m. to	
1.4		me number.		5.00 p.m., in German and English, also contact the local poison control centres	
SECT	ΓΙΟΝ 2: Hazards iden	tification			
SEC			745 in the	ir final state are excempted from the GB CLP legislation.	
2.1	Classification of the				
	Classification acco			The following classification is not applicable to the alloy but	
	Regulation (EC) No 1272/2008:			only for the fumes, smokes and dusts formed during the processing and machining.	
	Resp. Sens. 1	H334	May cau inhaled.	ise allergy or asthma symptoms or breathing difficulties if	
	Skin Sens. 1	H317		ise an allergic skin reaction.	
	Aquatic Chronic 4	H413		use long lasting harmful effects to aquatic life.	
	Additional information:			The specified classification and labelling relates to safe	
				handling of the alloy and the manufacturing of dental prostheses and not for application in the oral cavity.	
2.2	Label elements:			Medical devices according EG 2017-745 in their final state are excempted from the GB CLP legislation. The following labelling is not applicable to the alloy but only for the fumes, smokes and dusts formed during the processing and machining.	
	Labelling according 1272/2008:	g to Regulation	(EC) No	The product is classified and labelled according to the CLP regulation.	

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Hazard pictograms:



Signal word:

Danger

.... rd

Hazard staten	nents
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H413	May cause long lasting harmful effects to aquatic life.
Precautionary	/ statements
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P284	[In case of inadequate ventilation] wear respiratory protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see on this label).
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Information p	ertaining to particular The product has to be labelled due to the calculation

dangers for man and environment:

procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

SECTION 3: Composition/information on ingredients

3.2	Chemical characterisation:	Mixtures	
	Description:	Cobalt-based alloy	

Dangerous components:

CAS: 7440-48-4 EINECS: 231-158-0 Index number: 027-001-00-9	cobalt Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1B, H350; Repr. 1B, H360F; Skin Sens. 1, H317; Aquatic Chronic 4, H413	≥50-≤100%
CAS: 7440-47-3	chromium	≥10-<50%
EINECS: 231-157-5	substance with a Community workplace exposure limit	
CAS: 7440-33-7	tungsten	≥2.5-<25%
EINECS: 231-143-9	substance with a Community workplace exposure limit	>0 400/
CAS: 7440-21-3 EINECS: 231-130-8	silicon Flam. Sol. 2, H228	≥0-<10%
LINE 00. 201-100-0	1 Iani. 501. 2, 11220	

Additional information:

Refer to Section 16 for the wording of the listed hazard statements.

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4.1	Description of first aid measures General information:	No special measures required.
	After inhalation:	Supply fresh air; consult doctor in case of symptoms.
	After skin contact:	Wash with water and soap.
	After eye contact:	Rinse opened eye for 15 minutes under running water. Then consult doctor.
	After swallowing:	Rinse out mouth and then drink plenty of water (approx. 500 ml). In case of persistent symptoms consult doctor.
4.2	Important acute and delayed symptoms and effects:	No further relevant information available.
4.3	Information for the doctor:	No further relevant information available.
<u>SEC</u>	TION 5: Firefighting measures	
5.1	Extinguishing media Suitable extinguishing aids:	Use fire fighting measures that suit the environment. CO2, extinguishing powder or water jet. Fight larger fires with foam. ABC powder Sand
5.2	Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:	Fire can cause release of: Metal vapour and metal oxides as fumes.
5.3	Protective equipment:	Do not inhale explosion gases or combustion gases.
SEC	TION 6: Accidental release measures	
6.1	Person-related safety precautions:	Avoid causing dust. Wear protective clothing. Ensure adequate ventilation Use breathing protection against the effects of fumes/dust/aerosol.
	Protective equipment and to be used in emergencies procedure:	Ensure adequate ventilation. Use breathing protection against the effects of fumes/dust/aerosol.
6.2	Measures for environmental protection:	Do not allow concentrated solutions to enter drainage system, surface or ground water.
6.3	Measures for cleaning/collecting:	Collect mechanically.
6.4	Reference to other sections:	See section 7 for information on safe handling See section 8 for information on personal protection





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7.1	TION 7: Handling and s Precautions for safe		Prevent formation of dust. Provide suction extractors if dust Ensure good ventilation/exhaus Extractors are required on all m processing or metal removal pro	tion at the work achines used for	
	Information about preexplosions and fires:		No special measures required.		
7.2	Conditions for safe s	torage, including any i	ncompatibilities		
	Storage: Requirements to be met by storerooms and containers: Information about storage in one common storage facility:		No special requirements. Not required.		
	Further information a conditions:	about storage	Store in cool, dry conditions in v	well-sealed con	tainers.
7.3	Specific end uses:		No further relevant information	available.	
	Components with cri	tical values that requir	e monitoring at the workplace:		
	Components with cri 7440-48-4 cobalt WEL (Great Britain)	Long-term value: 0.1 n			
	7440-48-4 cobalt WEL (Great Britain) 7440-47-3 chromium WEL (Great Britain) IOELV (European	Long-term value: 0.1 n as Co; Carc, Sen Long-term value: 0.5 n Long-term value: 2 mg	ng/m³		
	7440-48-4 cobalt WEL (Great Britain) 7440-47-3 chromium WEL (Great Britain)	Long-term value: 0.1 n as Co; Carc, Sen Long-term value: 0.5 n	ng/m³		
	7440-48-4 cobalt WEL (Great Britain) 7440-47-3 chromium WEL (Great Britain) IOELV (European	Long-term value: 0.1 n as Co; Carc, Sen Long-term value: 0.5 n Long-term value: 2 mg	ng/m³ I/m³ ng/m³		
	7440-48-4 cobalt WEL (Great Britain) 7440-47-3 chromium WEL (Great Britain) IOELV (European Union) 7440-33-7 tungsten	Long-term value: 0.1 n as Co; Carc, Sen Long-term value: 0.5 n Long-term value: 2 mg as Cr Short-term value: 10 m Long-term value: 5 mg	ng/m³ //m³ //m³ //m³		
	7440-48-4 cobalt WEL (Great Britain) 7440-47-3 chromium WEL (Great Britain) IOELV (European Union) 7440-33-7 tungsten WEL (Great Britain) 7440-21-3 silicon	Long-term value: 0.1 m as Co; Carc, Sen Long-term value: 0.5 m Long-term value: 2 mg as Cr Short-term value: 10 m Long-term value: 10 m Long-term value: 5 mg as W Long-term value: 10* 4 *inhalable dust **respin ogical limit values: n of material % e limit,	ng/m³ //m³ //m³ //m³	Value 1,25	Unit mg/m3

8.2 Exposure controls Personal protective equipment

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	General protective and hygienic measures:	The usual precautionary measures should be adhered to in handling the chemicals. Wash hands during breaks and at the end of the work. Do not eat, drink or smoke while working. Avoid contact with the eyes and skin. Do not inhale dust / smoke / mist.
	Breathing equipment:	Use breathing protection in case of insufficient ventilation. Short term filter device: ABEK-filter Filter P3.
	Protection of hands:	Protective gloves: In case of spray contact at least protection index 2 recommended, according to more than 30 min. penetration time (EN 374). Layer thickness of gloves at least: 0.4 mm
		In case of prolonged and intensive contact protection index 6 recommended, according to more than 480 min. penetration time (EN 374). Layer thickness of gloves at least: 0.7 mm
	Material of gloves:	Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Natural rubber, NR Chloroprene rubber, CR Neoprene gloves
	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.
	Eye protection:	Safety glasses (DIN 58211, EN 166)
	Body protection:	Light weight protective clothing.
0001	CON 0. Develop and shaming a new ortige	
	ION 9: Physical and chemical properties	proportion
9.1	Information on basic physical and chemical General Information	properties.
	Appearance:	
	Form:	Solid
	Colour:	Silver-coloured
	Smell:	Odourless
	Odour threshold:	not applicable
	pH-value:	not applicable
	Change in condition Melting point/freezing point:	1,390-1,415 °C
	Initial boiling point and boiling range:	2000 °C
	Flash point:	not applicable
	Inflammability (solid, gaseous):	not applicable
	Auto-ignition temperature:	not applicable
	Decomposition temperature:	not determined
	Explosive properties:	Product is not explosive.
	Critical values for explosion:	

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	Lower:	not applicable
	Upper:	not applicable
	Dust explosion class:	n et en elle elle
	Oxidising properties:	not applicable
	Steam pressure: Density at 20 °C:	not applicable 8 g/cm ³
		•
	Evaporation rate:	not applicable
	Solubility in / Miscibility with Water:	
	Partition coefficient: n-octanol/water:	Unsoluble
		not applicable
	Viscosity dynamic:	not applicable
	kinematic:	not applicable
	Solvent content:	not applicable
	Solids content:	100.0 %
	Solids content.	100.0 /8
9.2	Other information:	No further relevant information available.
SEC	FION 10: Stability and reactivity	
10.1	Reactivity:	No further relevant information available.
10.2	Chemical stability:	No decomposition if used according to specifications.
10.3	Possibility of hazardous reactions:	No dangerous reactions known.
10.4	Conditions to avoid:	No further relevant information available.
10.5	Incompatible materials:	No further relevant information available.
10.6	Hazardous decomposition products:	Formation of metal vapour when melting.
SEC	FION 11: Toxicological information	
	Information on toxicological effects:	
	Acute toxicity:	Based on available data, the classification criteria are not met.
	LD/LC50 values that are relevant for	Oral LD50 >2,000 mg/kg (rat)
	classification:	
	Primary irritant effect:	
	Skin corrosion/irritation:	Based on available data, the classification criteria are not
		met.
	Serious eye damage/irritation:	Based on available data, the classification criteria are not
		met.
	Respiratory or skin sensitisation:	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
	Subacute to chronic toxicity:	Do not breathe dust.
	casacato to omonio toxiotty.	Harmful: possible risk of irreversible effects through
		inhalation.
	Additional toxicological information:	
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	Repeated dose toxicity:	No further relevant information available.
	CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):	May cause cancer. Suspected of causing genetic defects.
	Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
	Carcinogenicity:	Based on available data, the classification criteria are not met.
	Reproductive toxicity:	Based on available data, the classification criteria are not met.
	STOT-single exposure:	Based on available data, 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.
	FION 12: Ecological information	
12.1	Toxicity Acute toxicity:	No further relevant information available.
12.2	Persistence and degradability: Other information:	No further relevant information available. Inorganic salts are basicly not biodegradable.
12.3	Bioaccumulative potential:	Does not accumulate in organisms.
12.4	Mobility in soil: Ecotoxical effects: Remark: Other information:	No further relevant information available. No data No COD, no BOD, no AOX No VOC (0%) according to EC-directive 1999/13/EC
	Additional ecological information: General notes:	Do not allow product to reach ground water, water bodies or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into soil.
12.5	Results of PBT and vPvB assessment:	PBT: Not applicable. vPvB: Not applicable.
12.6	Other adverse effects:	No further relevant information available.
SECT	FION 13: Disposal considerations	
13.1	Waste treatment Methods:	Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Contact manufacturer for recycling information. Must be specially treated in adherence to official regulations.

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	Uncleaned packaging: Recommendation:	Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product. Dispose of packaging according to regulations on the disposal of packagings.
	Recommended cleaning agent:	Water, if necessary, with cleaning agent.
	ION 14: Transport information	
14.1	UN number: ADR/RID/ADN, IMDG, IATA:	Void
14.2	UN proper shipping Name: ADR/RID/ADN, IMDG, IATA:	Void
14.3	Transport Hazard classes: ADR/RID/ADN, IMDG, IATA: Class:	Void
14.4	Packing Group: ADR/RID/ADN, IMDG, IATA:	Void
14.5	Environmental hazards:	Not applicable.
14.6	Special precautions:	Not applicable.
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
	Transport/Additional information: UN "Model Regulation":	Void
SECT	ION 15: Regulatory information	
15.1	Safety, health and environmental regulation mixture:	ns / legislation specific for the substance or
	Directive 2012/18/EU Named dangerous substances - ANNEX I:	None of the ingredients is listed.
	National regulations: Information about limitation of use:	Employment restrictions concerning young persons must be observed.
	Other regulations, limitations and prohibitive regulations:	The general dust exposure limit of 1.25 mg/m3, measured as alveolic part has to be observed (German TRGS 900, 2015).
15.2	Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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Relevant phrasesH228Flammable solid.H317May cause an allergic skin reaction.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H341Suspected of causing genetic defects.H350May cause cancer.H360FMay damage fertility.H413May cause long lasting harmful effects to aquatic life.	
Contact: info@eisenbacher.de	
Abbreviations and Terms:	
RID: Règlement international concernant le transport des marchandises dangereuses chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)	par
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	
vPvB: very Persistent and very Bioaccumulative	
Flam. Sol. 2: Flammable solids – Category 2	
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	

Sources: source ECHA: European Chemicals Agency, <u>http://echa.europa.eu/</u>.

* Data compared to the previous version altered.