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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 12.07.2022

Version number 4 (replaces version 3)

Revision: 12.07.2022

1.1 Product identifi	er		
		n CE, EH, NF, Las	ser, P, Pw, Sun
	ied uses o	f the substance or mixtu	re and uses advised against
• Application of th	ne substan	ce / the mixture Manufac	ture of dental prothesis
••	ıpplier of ti ıpplier:	he safety data sheet	, Tel.: +49 (0)800 437252
		,	
1.4 Emergency tele	phone nun	lail: msds@kulzer-dental.c nber: Emergency CONTA	om CT (24-Hour-Number): +49 (0)6132-84463
SECTION 2: Haz			
2.1 Classification o		ance or mixture Regulation (EC) No 127	2/2008
Resp. Sens. 1	H334 Ma		ma symptoms or breathing difficulties i
Skin Sens. 1	H317 Ma	ay cause an allergic skin r	eaction.
Muta. 2	H341 Sı	ispected of causing genet	ic defects.
Carc. 1B	H350 Ma	ay cause cancer.	
Repr. 1B	H360F Ma	ay damage fertility.	
Aquatic Chronic 4	4 H413 Ma	ay cause long lasting harn	nful effects to aquatic life.
The product is cla · Hazard pictog		labelled according to the	GB CLP regulation.
GHS08			
· Signal word I	Danger		
cobalt · Hazard state i	nents	nponents of labelling:	
H317 May ca	ause an alle cted of caus ause cancer	rgic skin reaction. sing genetic defects.	preathing difficulties if inhaled.
H413 May ca Precautionar P261 A	ause long la y statemen void breathi	sting harmful effects to aq ts ing dust/fume/gas/mist/var	oours/spray.
P280 W		ive gloves / eye protection ive clothing.	



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 Additional information: Restricted to professional users.

· 2.3 Other hazards

During welding and soldering processes spatter can occur, molten metal and UV / IR heat can cause burns or fire.

Chrome:

Welding and grinding produce smoke and dust. Chromium (VI) oxide, which is classified as carcinogenic, fine dust and ozone can develop. Sodium chromate can be formed during welding.

Sodium chromate has the following classification:

Classification sodium chromate (This classification only applies to pure sodium chromate.) H 350 May cause cancer.

H 340 May cause genetic defects.

H 360FD May damage fertility. May harm the unborn child.

H 330 Danger to life if inhaled.

H 301 Toxic if swallowed.

H 372 Causes damage to organs through prolonged or repeated exposure.

H 312 Harmful in contact with skin.

H 314 Causes severe skin burns and eye damage.

H 334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H 317 can cause allergic reactions to your skin.

H 410 Very toxic for water organisms with long-term effect.

The proportion of sodium chromate in welding fumes depends on the electrode, the material to be welded and the welding conditions. It cannot be assessed here which of the aforementioned properties the welding smoke actually has.

Note on labeling:

As alloy, the product does not need to be labeled in accordance with EC regulations or the respective national laws. Although this product does not require labeling, we recommend that you follow the safety advice.

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· 3.2 Mixtures · Description: -		
· Dangerous com	ponents:	
CAS: 7440-48-4 EINECS: 231-158-0	cobalt Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1B, H350; Repr. 1B, H360F Skin Sens. 1, H317 Aquatic Chronic 4, H413	≥25-≤759
CAS: 7440-47-3 EINECS: 231-157-5	chromium substance with a Community workplace exposure limit	<i>≥</i> 0- <i>≤</i> 50%

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	: First aid measures	
	on of first aid measures	
· After inha		
After inhal	ed persons into the open air and position comfortably tion of smoke, vapors and dust get fresh air and see a doctor.	
· After skin		
	ash with water and soap and rinse thoroughly.	
	cal treatment.	
	tion continues, consult a doctor.	
· After eye		
Rinse oper	ed eye for several minutes under running water.	
	cal treatment.	
	ed eye for several minutes under running water. Then consult doctor.	
	lowing Do not induce vomiting; instantly call for medical help.	
	ortant symptoms and effects, both acute and delayed Allergic reactions	
	of any immediate medical attention and special treatment needed	
	vant information available.	
SECTION !	: Firefighting measures	
5.1 Extinguis		
	xtinguishing agents	
Limestone	powder	
Drycoord		
Dry sand	hting many uran that quit the any ironment	
Use fire fig	hting measures that suit the environment.	
Use fire fig • For safety	reasons unsuitable extinguishing agents	
Use fire fig • For safety Extinguish	reasons unsuitable extinguishing agents ng foam.	
Use fire fig • For safety Extinguish Carbon dio	reasons unsuitable extinguishing agents ng foam. xide	
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Use fire fig For safety Extinguish Carbon dic 5.2 Special h Formation of t 5.3 Advice fo Protective Additiona SECTION (6.1 Personal Use breathing	reasons unsuitable extinguishing agents ng foam. xide azards arising from the substance or mixture oxic gases is possible during heating or in case of fire. r firefighters equipment: Do not inhale explosion gases or combustion gases. information - : Accidental release measures protections, protective equipment and emergency procedures protection against the effects of fumes/dust/aerosol.	
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Use fire fig For safety Extinguish Carbon did 5.2 Special h Formation of t 5.3 Advice for Protective Additiona SECTION (6.1 Personal Use breathing Ensure adequ Wear protecti 6.2 Environm Do not allow t Prevent mater 6.3 Methods 6.4 Reference	reasons unsuitable extinguishing agents ng foam. xide azards arising from the substance or mixture oxic gases is possible during heating or in case of fire. r firefighters equipment: Do not inhale explosion gases or combustion gases. information - : Accidental release measures precautions, protective equipment and emergency procedures protection against the effects of fumes/dust/aerosol. ate ventilation re clothing. ental precautions: o enter drainage system, surface or ground water. ial from reaching sewage system, holes and cellars. and material for containment and cleaning up: Collect mechanically. e to other sections	
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Use fire fig For safety Extinguish Carbon dic 5.2 Special h Formation of t 5.3 Advice fo Protective Additiona SECTION (6.1 Personal Use breathing Ensure adequ Wear protecti 6.2 Environm Do not allow t Prevent mater 6.3 Methods 6.4 Reference See Section 7 See Section 8	reasons unsuitable extinguishing agents ng foam. xide azards arising from the substance or mixture oxic gases is possible during heating or in case of fire. r firefighters equipment: Do not inhale explosion gases or combustion gases. information - : Accidental release measures protection against the effects of fumes/dust/aerosol. ate ventilation re clothing. ental precautions: o enter drainage system, surface or ground water. ial from reaching sewage system, holes and cellars. and material for containment and cleaning up: Collect mechanically. e to other sections	

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Avoid contact with eyes and skin.

Ensure good ventilation/exhaustion at the workplace.

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires: No special measures required.

- · 7.2 Conditions for safe storage, including any incompatibilities Storage
 - Requirements to be met by storerooms and containers:
 - Store in cool, dry place in tightly closed containers.
 - · Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: None.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters	
Components with cri	tical 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
7440-47-3 chromium	
WEL (Great Britain)	Long-term value: 0.5 mg/m³
AGW (European Union)	Long-term value: 2 mg/m³ as Cr
IOELV (European Union)	Long-term value: 2 mg/m³ as Cr
· Additional inform	ation: The lists that were valid during the compilation 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 Do not eat or drink while working.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.

• Breathing equipment:

ABEK-P3 (EN14387)

Filter P1.

Breathing protection recommended.

Hand protection

For welding work: Use welding gloves (DIN 4841-4, EN 12477).

chemical protection gloves are suitable, which are tested according to EN 374

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.

Check protective gloves prior to each use for their proper condition.

recommended 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

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calculated in advance and has therefo	(Contd. of page) ore to be checked prior to the application.
· Penetration time of glove material	
	be found out by the manufacturer of the protectiv
gloves and has to be observed.	
	ximum of 15 minutes gloves made of the followir
materials are suitable:	xiniani or 15 minutes gioves made or the followin
Butyl rubber, BR	
Nitrile rubber, NBR	
· Eye/face protection	
eye protection (EN 166)	
Tightly sealed safety glasses.	
· Body protection: Light weight protective	e clothing
	•
SECTION 9: Physical and chemical p	properties
9.1 Information on basic physical and chem	ical properties
General Information	Solid
· Physical state · Colour:	Solid. Silver-coloured
· Colour: · Smell:	Odourless
Odour threshold:	Not determined.
Melting point/freezing point:	1380 °C
Boiling point or initial boiling point an	
boiling range	>999 °C
· Flammability	Not determined.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable
· Decomposition temperature:	Not determined.
· SADT	
· pH	Mixture is non-soluble (in water).
· Viscosity:	
Kinematic viscosity	Not applicable.
· dynamic:	Not applicable.
· Solubility	
· Water:	Insoluble
Partition coefficient n-octanol/water (I	
value)	Not determined.
Steam pressure:	Not applicable.
Density and/or relative density	
Density at 20 °C	8.25 g/cm ³
Relative density	Not determined.
· Vapour density	Not applicable.
	No further relevant information available.
· Appearance:	
Form:	Solid.
Important information on protection	of
health and environment, and on safety.	
Self-inflammability:	Product is not selfigniting.
• Explosive properties:	Product is not explosive.
	Not determined.



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		(Contd. of
· Solvent content:		
· Solids content:	100.0 %	
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	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
 - **Conditions to be avoided:** No decomposition if used and stored 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:
- Strong acids Strong oxidizers

Strong bases

10.6 Hazardous decomposition products:

In case of fire the following can be released: Toxic metal oxide smoke

· Additional information: -

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 that are relevant for classification: 7440-48-4 cobalt >2,000 mg/kg (rat) (OECD 402) Dermal LD50 7440-47-3 chromium

Oral LD50 >5,000 mg/kg (rat) (OECD 420)

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(Contd. of page 6) Inhalative LC50/4 h >5.41 mg/l (rat) (OECD 403) Skin corrosion/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. · Germ cell mutagenicity Suspected of causing genetic defects. · Carcinogenicity May cause cancer. Reproductive toxicity May damage fertility. 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. Additional toxicological information: Acute effects (acute toxicity, irritation and corrosivity) Inhalation of fumes and smoke generated during welding/brazing may cause metal fume fever. Symptoms may appear after 4 - 12 hours. (Headache, dizziness, dryness, cough, nausea and fever). · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Muta. 2, Carc. 1B, Repr. 1B 11.2 Information on other hazards Endocrine disrupting properties None of the ingredients is listed. SECTION 12: Ecological information · 12.1 Toxicitv Aquatic toxicity: No further relevant information available. · 12.2 Persistence and degradability No further relevant information available. · 12.3 Bioaccumulative potential 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 For information on endocrine disrupting properties see section 11.

- 12.7 Other adverse effects
 - · 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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

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

Disposal must be made according to official regulations.

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· Uncleaned packagings:

Recommendation: Packaging can be reused or recycled after cleaning.

SECTION 14: Transport informat		
14.1 UN number or ID number ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	Void	
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 accordi IMO instruments	ng to Not applicable.	
· Transport/Additional information:	-	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

· 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.

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. Abbreviations and acronyms:

SADT: Self Accelerating Decomposition Temperature

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

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(Contd. of page 8) 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 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 · * Data compared to the previous version altered.