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	Specification	102935	
	VA-Nr	01906661	Dentsply Sirona
	·	3.0 / GB Material no. 03.12.2021 Specification 03.09.2001 VA-Nr 2.12 VA-Nr	3.0 / GB Material no. 03.12.2021 Specification 102935 03.09.2001 VA-Nr 01906661 2.12 VA-Nr 01906661

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

1.1. Product identifier

Trade name	Biosil f Biosil I Biosil Laserdraht
REACH Registration No .:	if available listed in Chapter. 3

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

Relevant applications identified For dental use only.

1.3. Details of the supplier of the safety data sheet

Company	DeguDent GmbH Postfach 1364 D-63403 Hanau
Telephone	+49 (0)6181/59-5576
Telefax	+49 (0)6181/59-5879
Email address	SDB.Degudent-DE@dentsplysirona.com

1.4. Emergency telephone number

Emergency information +49 (0)6181/59-50 (This telephone number is available during office hours only.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Respiratory sensitization	Category 1	H334
Skin Sensitisation	Category 1	H317
Hazardous to the aquatic environment - Chronic Hazard	Category 4	H413
Reproductive toxicity	Category 1	H360F
Carcinogenicity	Category 1	H350
Germ cell mutagenicity	Category 2	H341

2.2. Label elements

Labelling as per (EU) 1272/2008

Statutory basis

EU-CLP as per Regulation (EU) No. 1272/2008, Annex VI

hazard-defining component(s) (GHS)

• cobalt Hazard pictograms



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Signal word	Danger					
Hazard statement	H317 - May cau H413 - May cau		ion. effects to aquatic lif			
Precautionary statement	P280 - Wear pro	otective gloves/protectiv	e clothing/eye prote	ection.		
Precautionary statement: Prevention	P272 - Contami P273 - Avoid rel	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. P285 - In case of inadequate ventilation wear respiratory protection.				
Precautionary statement: Reaction	P304 + P341 - I keep at rest in a P333 + P313 - I P342 + P311 - I doctor/ physicia	F ON SKIN: Wash with F INHALED: If breathing position comfortable fo f skin irritation or rash o f experiencing respirato n. ntaminated clothing bef	g is difficult, remove r breathing. ccurs: Get medical ry symptoms: Call a	advice/ attention.		
Precautionary statement: Storage	P405 - Store loc	ked up.				
Precautionary statement: Disposal	P501 - Dispose	of contents/container in	accordance with lo	ocal regulation.		

2.3. Other hazards

May react forming chromium(VI) compounds when processing thermally., Possible release of metallic vapors when melted.

Cobalt vapor will be released while processing., Limited evidence of a carcinogenic effect. A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

SECTION 3: Composition/information on ingredients

3.1. Substances

-

3.2. Mixtures

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

• cobalt	60% - 70%				
Skin Sens Hazardou Germ cell	s to the aquatic envi mutagenicity reproduction	EC-No. ronment - Chronic	231-158-0 Hazard	Category 1 Category 1 Category 4 Category 2 Category 1B Category 1B	H334 H317 H413 H341 H360F H350
• chromi	ium		25% - 35%		
CAS-No.	7440-47-3	EC-No.	231-157-5		

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	• molybde	enum		3% - 7%		
	CAS-No.	7439-98-7	EC-No.	231-107-2		

• Silicium	1% - 5%			
CAS-No.	7440-21-3	EC-No.	215-609-9	

Texts of H phrases, see in Chapter 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off with soap and water. In the case of skin irritation or allergic reactions see a physician.

Eye contact

Rinse with plenty of water. If eye irritation persists, consult a specialist.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Obtain medical attention.

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

Symptoms

None known

Hazards None known

4.3. Indication of any immediate medical attention and special treatment needed None known

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Special powder against metal fire quenching powder dry sand common salt
Unsuitable extinguishing media:	Water Carbon dioxide (CO2)

5.2. Special hazards arising from the substance or mixture Can be released in case of fire: cobalt oxide.

5.3. Advice for firefighters

The product itself does not burn. Prevent fire extinguishing water from contaminating surface water or the ground water system. In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Avoid dust formation.

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Avoid breathing dust. In case of dust being formed, provide for adequate extraction. Ensure suitable suction/aeration at the work place and with operational machinery.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

 6.3. Methods and material for containment and cleaning up Use mechanical handling equipment. Avoid dust formation. Fill into marked, sealable containers.

6.4. Reference to other sections Wear personal protective equipment; see section 8. Disposal considerations; see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

In case of melting, soldering or grinding: Local ventilation. Avoid dust formation. In case of dust or vapor: Wear personal safety equipment Dusts and vapors: Do not inhale.

7.2. Conditions for safe storage, including any incompatibilities Storage No special storage conditions required.

German storage class

13 - Non Combustible Solids

7.3. Specific end use(s)

We are unaware of any specific end uses which go beyond the data reported in Section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

 cobalt 			
CAS-No. Control parameters	7440-48-4 0.1 mg/m3	EC-No.	231-158-0 Time Weighted Average (TWA):(EH40 WEL)
Control parameters	0.02 mg/m3		Time Weighted Average (TWA):(NZ OEL)
Control parameters	0.02 mg/m3		Time Weighted Average (TWA):
Control parameters	0.02 mg/m3		Time Weighted Average (TWA):(KOR OEL)
chromium			
CAS-No. Control parameters	7440-47-3 0.5 mg/m3	EC-No.	231-157-5 Time Weighted Average (TWA):(EH40 WEL)
Control parameters	2 mg/m3 Indicative		Time Weighted Average (TWA):(EU ELV)
Control parameters	0.5 mg/m3		Time Weighted Average (TWA):(NZ OEL)
Control parameters	0.5 mg/m3		Time Weighted Average (TWA):
Control parameters	0.5 mg/m3		Time Weighted Average (TWA):(KOR OEL)
molybdenum			
CAS-No. Control parameters	7439-98-7 20 mg/m3	EC-No.	231-107-2 Short Term Exposure Limit (STEL):(EH40

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			WEL)
Control parameters	10 mg/m3		Time Weighted Average (TWA):(EH40 WEL)
Silicium			
CAS-No. Control parameters type of exposure	7440-21-3 10 mg/m3 Inhalable dust.	EC-No.	215-609-9 Time Weighted Average (TWA):(EH40 WEL)
Control parameters type of exposure	4 mg/m3 Respirable dust.		Time Weighted Average (TWA):(EH40 WEL)

8.2. Exposure controls

Engineering measures

Cobalt vapor will be released while processing., Adequate exhaustion / ventilation of the work site or machinery must be assured. Vacuuming of objects.

Personal protective equipment

Respiratory protection

In case of working with / without sufficient object exhaustion:, Respirator with P3 particle filter

Hand protection

Protective gloves

Glove material butyl-rubber, Nitrile rubber, Natural Rubber/Natural latex (NR)

Eye/face protection

Safety glasses with side-shields, In case of smoke or dust development: goggles

Skin and body protection

If cobalt - vapour occurs: Change contaminated clothing., Apply adequate skin protection agents before handling the product. Assure skin cleaning and skin care after work. Preventive skin protection is recommended.

Hygiene measures

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used., Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work., Do not inhale smoke, dust, vapor., If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Form Colour	solid white
Coloui	white
Odour	odourless
Odour threshold:	not applicable
рН	not applicable (solid)
Melting point/range	1290 - 1390 °C
Boiling point/range	not applicable (solid)
Flash point	does not flash
Evaporation rate	not applicable, (solid)

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Flammability (solid, gas)	not flammable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	not applicable
Vapour density	not applicable
Density	8.2 - 8.4 g/cm3
Water solubility	insoluble
Partition coefficient: n- octanol/water	not applicable
Autoinflammability	Not capable of spontaneous combustion or heating.
Thermal decomposition	not applicable
Viscosity, dynamic	not applicable
Explosiveness	not applicable
Oxidizing properties	not oxidizing

9.2. Other information

Other information

No further physicochemical data were determined.

SECTION 10: Stability and reactivity

- 10.1. Reactivity no data available
- 10.2. Chemical stability
 - The product is chemically stable.
- **10.3.** Possibility of hazardous reactions Possibility of hazardous No dangerous reactions known. reactions
- **10.4.** Conditions to avoid No limitations
- 10.5. Incompatible materials None known
- **10.6. Hazardous decomposition products** Decomposition products occurring when heated above melting temperature metallic vapors

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity no data available

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Acute inhalation toxici	ity	no data availat	ble			
Acute dermal toxicity		no data availat	ble			
Skin irritation		no data availat	ble			
Eye irritation		no data available				
Sensitization		inhalation of du chromium are l	ust., Allergic rea known. For none	ceptible persons by ctions caused by ior e of the cobalt and c ited allergic reaction	ns of cobalt and hromium containing	
Repeated dose toxicit	у	no data available				
Mutagenicity assessm	nent	no data available				
Carcinogenicity		No data availal	ble			
Toxicity to reproduction	n	No data availal	ilable			
Human experience		The solubility of that the daily of the alloy., As a the human boo body., The dail	of the alloy is ext uptake of these of constituent of v ly ., Molybdenur y dietary uptake	elements is consider itamin B12 cobalt is n is an essential ele of chromium amou	therefore be assumed rably exceeds that from an essential element of ment of the human	
Further information			and vapours):, C	own if properly hand lues to possible card		

SECTION 12: Ecological information

12.1. Toxicity

No ecotoxicological data is available for this product.

- 12.2. Persistence and degradability Biodegradability no data available
- Bioaccumulative potential

 Bioaccumulation
 no data available
- **12.4.** Mobility in soil Mobility The product is insoluble in water. No further information available

12.5. Results of PBT and vPvB assessment

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

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12.6. Other adverse effects

Further Information

Dusts and water-soluble forms of the alloy:, Introduction into soil, natural water bodies or sewerage must be prevented.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

SECTION 14: Transport information

Not dangerous according to transport regulations.

14.1.	UN number:	
14.2.	UN proper shipping name:	
14.3.	Transport hazard class(es):	
14.4.	Packing group:	
14.5.	Environmental hazards:	
14.6	Special precautions for user:	No

SECTION 15: Regulatory information

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

15.2. Chemical safety assessment

Chemical safety assessment No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Regulatione is required for this product.

SECTION 16: Other information

Classification and applied procedure to derive the classification of mixtures according to EU Regulation (EC) No. 1272/2008 (CLP)

Classification	Classification procedure
Resp. Sens., 1 , H334	
Skin Sens., 1 , H317	
Aquatic Chronic, 4, H413	
Repr., 1, H360F	
Carc., 1 , H350	
Muta., 2 , H341	

Relevant H phrases from chapter 3

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.

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Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Legend	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by
	Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by
	Inland Waterways
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
C.C.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG CMR	German Chemicals Act
DIN	carcinogenic-mutagenic-toxic for reproduction German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous
	goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
ΙΑΤΑ	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
0. C.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL PBT	Occupational Exposure Limit
PEC	Persistent, bioaccumulative, toxic Predicted effect concentration
PEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
01110	

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TA TPR TRGS VCI vPvB VOC VwVwS WGK WHO	German chemical very persistent, ve volatile organic co	sentative (Art. 4) or Hazardous Substance industry association ry bioaccumulative mpounds ative Regulation on the Hazard Classes ss	-	bstances Hazardous to