



Material safety data sheet for BionMet CC					
SDS003ENa Rev.: 01.07.2022	In conformity with: Regulation (EC) No 1907/2006				
1. COMMERCIAL PRODUCT NAME AND SUPPLIER					
1.1 Commercial product name	BionMet CC				
1.2 Application / use	Production of dental restorations				
1.3 Uses advised against	No additional information available				
1.4 Description	Metal disc				
1.5 Manufacturer	Bionah srl, Via J.G. Mahl 40, I – 39031 Brunico				
1.6 Supplier	Bionah srl, Via J.G. Mahl 40, I – 39031 Brunico				
1.7 Emergency number	+39 0474 370 350 (Mon. – Fri. 8 am – 6 pm)				
2. HAZARD IDENTIFICATION					
2.1 Classification of the substance or mixture	Skin Sens. 1; H317 May cause allergic skin reactions. Resp. Sens. 1; H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Carc. 2; H351: Suspected of causing cancer. The product falls within the scope of EEC Directive 93/42 for medical devices.				
2.2 Label elements					
2.2.1 Danger Symbols	GHS08 (Technical Rules for Hazardous Substances).				
2.2.2 Signal word	Danger.				
2.2.3 Hazard-determining components of labelling	Cobalt, nickel				
2.2.4 H-Phrases	H317: May cause an allergic skin reaction. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H351: Suspected of causing cancer.				
2.2.5 P-Phrases	P102: Keep out of reach of children. P202: Do not handle until all safety precautions have been read and understood. P260: Do not breathe dust/fumes/gas/mist/vapours/spray. P270: Do not eat, drink or smoke when using this product. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves/protective clothing/eye protection/face protection. P284: Wear respiratory protection. P302+P352: If on skin: Wash with plenty of water and soap. P304+P340: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P333 + P313: If skin irritation or a rash occurs: Get medical advice/attention.				





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	P308+P313: If exposed or concerned: Get medical advice/attention.		
	P342+P311: If experiencing respiratory symptoms: Call a poison center or physician.		
	P363: Wash contaminated clothing before reuse.		
	P405: Store locked up.		
	P501: Dispose of contents/container in accordance with local/regional/national/ international regulation.		
2.2.6 Additional labelling	None.		
2.3 Other hazards	When used as indicated: none.		
2.4 Additional information	Avoid grinding dust (see 8.3.1).		
3. COMPOSITION			
3. COMPOSITION			
3.1 Chemical Characterization	BionMet CC (CoCr28Mo6) contains: cobalt (CAS Nr. 7440-48-4), chromium (CAS Nr. 7440-47-3), molybdenum (CAS Nr. 7439-98-7) and nickel (CAS Nr. 7440-02-0).		
3.2 Hazardous ingredients	None		
3.3 Additional information	None		
4. FIRST AID MEASURES			
4.1 Eye contact	Open eyes as wide as possible and rinse with large quantities of running water. If complaints persist, consult a physician.		
4.2 Skin contact	Wash thoroughly with warm water. Take off contaminated clothing and wash before reuse. If complaints persist, consult a physician.		
4.3 Ingestion	Do not induce vomiting. Rinse mouth with water. If troubles persist, contact a physician.		
4.4 Inhalation	Provide sufficient ventilation. Leave the emission area and provide fresh air supply. Supply oxygen when inhaling gases from thermal decomposition. If troubles persist, contact a physician.		
4.5 Most important symptoms and effects	None known.		
4.6 Additional information	None		
5 FIRE FIGURING MEAGURES			
5. FIRE FIGHTING MEASURES			
5.1 Suitable extinguishing device	Chasial payder for metal fires		
	Special powder for metal fires.		
5.2 Unsuitable extinguishing device	Water.		
5.3 Additional information	Not flammable in solid form. Dust may form explosive mixtures with air. In case of fire, dangerous smoke gases are produced: Carbon oxides and metal oxides. A self-contained breathing apparatus and full protective clothing should be worn. The disposal of burnt material and contaminated extinguishing water should be carried out in accordance with local regulations.		
6. ACCIDENTAL RELEASE MEAS	SURFS		
O. ACCIDENTAL NELLAGE MEAS	JOILEO		
6.1 Individual protection	Avoid dust formation. Do not breathe dust. Keep away from sources of ignition. Ventilate room sufficiently. Use personal protective equipment.		
6.2 Environmental protection	Damp down dust with water spray. Collect contaminated water separately. Do not discharge into soils, sewerage systems, surface water and groundwater.		
6.3 Cleansing	Clean up mechanically.		





6.4 Additional information	Safe handling: see section 7. Personal protective equipment: see section 8. Disposal: see section 13		
7. HANDLING AND STORAGE			
7.4 Handling			
7.1 Handling	Only adequately trained personnel should handle this product. Keep out of reach of children. Avoid dust formation. Ensure adequate ventilation.		
7.2 Industrial hygiene	Usual hygienic measures are necessary. When using, do not eat or drink or smoke. Wash hands with soap before and after breaks and at the end of work.		
7.3 Storage	Store in a dry place and protected from heat sources. Do not expose to heavy shocks or vibrations. Blocks must not come into contact with liquids. Protect the products from dirt. Avoid any exposure to humidity. Avoid the formation and deposition of dust.		
7.4 Information about storage in one common storage facility	Not required.		
7.5 Fire and Explosion protection	Dust may form explosive mixtures with air. Avoid static charges. Keep away from sources of ignition.		
7.6 Indications for safe handling	Provide adequate local ventilation or suction unit, especially in case of dust exposure.		
7.7 Additional information	None.		
8. EXPOSURE CONTROLS/PERSO	ONAL PROTECTION		
8.1 Technical equipment	See point 7		
8.2 Control of threshold limits	See section 15.		
	Cobalt (CAS No. 7440-48-4)		
	BEI Urine 15 μg/L		
	Blood 1 μg/L		
8.3 Personal protective equipment			
8.3.1 Respiratory protection	Respiratory protection if dust is generated. For intensive or prolonged exposure, use self-contained breathing apparatus.		
8.3.2 Hand protection	Protective gloves		
8.3.3 Eye protection	Safety goggles.		
8.3.4 General measures	Do not breathe dust.		
8.4 Directives of exposure / threshold	/		
8.5 Additional information	None		
9. PHYSICAL AND CHEMICAL PR	OPERTIES		
9.1 Form	Solid		
9.2 Colour	Silver-grey		
9.3 Odour	Odourless		
9.4 Changes in physical state			
9.4.1 Freezing Point	Not applicable		
9.4.2 Melting point	1535 °C		
9.4.3 Boiling point	Not determined		





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9.5 Density	~ 8.3 g/cm ³				
9.6 Solubility	Insoluble in water.	· · · ·			
	Organic solvents 0,0%				
9.7 pH-Value	Not applicable.				
9.8 Flash point	Not specified.	Not specified.			
9.9 Ignition point	Not specified.	Not specified.			
9.10 Explosion limits	Not specified.				
9.11 Solids content / viscosity	100% solid				
9.12 Additional information	None				
10. STABILITY AND REACTIVITY	1				
10.1 Reactivity	None if properly used.				
10.2 Chemical stability	Stable when handled ar	nd stored according	g to instructions.		
10.3 Hazardous reactions	No dangerous reactions	known.			
10.4 Conditions to avoid	Not specified.				
10.5 Incompatible materials	None known.	· · ·			
10.6 Hazardous decomposition products	No hazardous decompo	No hazardous decomposition products known.			
10.7 Additional information	None	·			
11. TOXICOLOGICAL INFORMAT					
11.1 Acute Toxicity	Chemical description	CAS No.	LD50 oral		
	Cobalt	7440-48-4	6.170 mg/kg (rat)		
11.2 Skin	None.	None.			
11.3 Eyes	None.	None.			
11.4 Sensitization	Sensitisation possible th	Sensitisation possible through inhalation and skin contact.			
11.5 Additional information	The product shows the following dangers according to internally approved calculation methods for preparations: Harmful, carcinogenic, irritant.				
	Carcinogenic categories	Carcinogenic categories according to IARC:			
	Chemical description	CAS No.	Category		
	7440-48-4	Cobalt	2B		
	1440-40-4				
	7440-47-3	Chrome	3		
			3 2B		
	7440-47-3	Chrome			
12. ECOLOGICAL INFORMATION	7440-47-3 744-02-0	Chrome			
12. ECOLOGICAL INFORMATION 12.1 Toxicity	7440-47-3 744-02-0	Chrome Nickel	2B		
	7440-47-3 744-02-0	Chrome Nickel	2B		
12.1 Toxicity	7440-47-3 744-02-0 N Avoid discharge into dra	Chrome Nickel	2B		
12.1 Toxicity 12.2 Persistence and degradability	7440-47-3 744-02-0 N Avoid discharge into dra Not specified.	Chrome Nickel	2B		





12.6 Other harmful effects	The product has not been tested as such.		
13. DISPOSAL CONSIDERATIONS			
13.1 Product	Dispose of according to local regulations		
13.1.1 EC-Waste key	The classification of waste has to comply with the European Waste Catalogue (EWC).		
13.2 Container	Dispose contaminated and non-contaminated containers of according t local regulations		
13.3 Additional information	None		
14. TRANSPORT INFORMATION			
14.1 Transport at land (ADR/RIG/GGVSE)			
14.1.1 Classification	No dangerous good according to these transport regulations.		
14.1.2 Hazard label	No dangerous good according to these transport regulations.		
14.1.3 UN – NO.	Not specified.		
14.1.4 Kemler number	No dangerous good according to these transport regulations.		
14.1.5 Packing Group	No dangerous good according to these transport regulations.		
14.1.6 Classification code	No dangerous good according to these transport regulations.		
14.1.7 Warning sign	No dangerous good according to these transport regulations.		
14.1.8 Packing Code	No dangerous good according to these transport regulations.		
14.1.9 Volume or Mass	No dangerous good according to these transport regulations.		
14.1.10 Correct technical Term	No dangerous good according to these transport regulations.		
14.1.11 Limited quantity	No dangerous good according to these transport regulations.		
14.2 Transport at sea (IMDG-Code/GGVSEE)			
14.2.1 Classification	No dangerous good according to these transport regulations.		
14.2.2 UN – NO.	Not specified.		
14.2.3 Packing Group	No dangerous good according to these transport regulations.		
14.2.4 EMS	No dangerous good according to these transport regulations.		
14.2.5 Marine pollutant	No dangerous good according to these transport regulations.		
14.2.6 Additional danger	No dangerous good according to these transport regulations.		
14.3 Air Transport (ICAO-Code/GGVSEE)			
14.3.1 Classification	No dangerous good according to these transport regulations.		
14.3.2 UN – NO.	Not specified.		
14.3.3 Packing Group	No dangerous good according to these transport regulations.		
14.3.4 Subsidiary risk (subsidiary risk)	No dangerous good according to these transport regulations.		
14.4 Transport in bulk	Not applicable.		
14.5 Additional information	Product is not classified for any mode of transportation.		
15. REGULATORY INFORMATION			
15.1 Regulations according to EC regulations	The product falls within the scope of EEC Directive 93/42 for medical devices.		
15.2 National regulations	The user is responsible for compliance with national regulations.		





15.3 Technical guidelines air	Not specified.
15.4 Water hazard class	Water hazard class 1: slightly hazardous to water.
15.5 Chemical safety assessment	A Chemical Safety Assessment has not been carried out.
16. ADDITIONAL INFORMATION	ON
16.1 General information	The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications do not have the meaning of guarantees on properties. The user of our products is responsible for compliance with applicable laws and regulations.
16.2 Relevant phrases	H317: May cause an allergic skin reaction. H334: May cause allergy or asthma symptoms or breathing difficulties i inhaled. H351: Suspected of causing cancer.
	P102: Keep out of reach of children. P202: Do not handle until all safety precautions have been read and understood.
	P260: Do not breathe dust/fumes/gas/mist/vapours/spray. P270: Do not eat, drink or smoke when using this product. P272: Contaminated work clothing should not be allowed out of the
	workplace. P280: Wear protective gloves/protective clothing/eye protection/face protection. P284: Wear respiratory protection.
	P302+P352: If on skin: Wash with plenty of water and soap. P304+P340: If inhaled: 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.
	P308+P313: If exposed or concerned: Get medical advice/attention. P342+P311: If experiencing respiratory symptoms: Call a poison center or physician.
	P363: Wash contaminated clothing before reuse. P405: Store locked up.
	P501: Dispose of contents/container in accordance with local/regional/national/international regulation
16.3 Indications of Changes	Chapter 2 was revised, H- and P-Pharases were uptated, acute toxicity values were added in chapter 11.
16.4 Abbreviations and acronyms	ADR European Agreement concerning the International Carriage of Dangerous Goods by Road (Accord européen relatif au transport international des marchandises Dangereuses par Route)
	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation intérieure)
	RID: Regulation on the International Carriage of Dangerous Goods by Rail (Règlement concernant le transport International ferroviaire de marchandises Dangereuses)
	ICAO-TI: International Civil Aviation Organisation – Technical Instructions for the Safe Transportation of Dangerous Goods by Air IATA-DGR: International Air Transport Association – Dangerous Goods
	Regulations AGW: Occupational Exposure Limit (Arbeitsplatzgrenzwert)



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PBT/vPvB: Persistent, Bioaccumulative and Toxic/very Persistent and

very Bioaccumulative

BGW: Biological Limit Value (Biologischer Grenzwert)

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging

EWC: European Waste Catalogue

GHS: Globally Harmonized System of Classification and Labelling of

Chemicals

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods IOELV: Indicative Occupational Exposure Limit Value

LD50: Lethal Dose 50