

Safety Data Sheet

according to the Commission Directive 1907 / 2006 EG, Article 31

SOLIBOND C plus

Art.969-0250 / 969-1000 / 969-9010,-9012,-9013,-9015

(In accordance with standard EN ISO 22674 for dental alloys Type 2-4 EN ISO 9693)

1. Identification of the Substance/Preparation and of the Company/Undertaking

Trade name: SOLIBOND C plus
Article description: Metal-to-Ceramic Co. Cr. Dental Alloy
Use: Creation of metal frameworks
Producer: YETI Dentalprodukte GmbH
Street: Industriestraße 3
ZIP code / City: D-78234 Engen
E-Mail: sdb@yeti-dental.com
Information about substances: Tel. 0 77 33 / 94 10 0 FAX 0 77 33 / 94 10 22
Emergency: Tel. 0 77 33 / 94 10 0 (Mo. –Tho. 8h – 16h30, Fr. 8h – 14h)

2. Composition / Information on Ingredients:

Chemical characteristics: Contains no hazard components according to EN 10204 – 2.2

Ingredient:	Co	Si	Nb	Cr	W	Mo
CAS Nr.	7440-48-4	7440-21-3	7440-03-1	1376519-0	7440-33-7	7439-98-7
	63%	1,1%	0,9%	24%	8,1%	2,9%

3. Hazards Identifications:

Oxide (Silicium, Molybdenum, Wolfram, Nickel) as well as Manganese compounds (Cobalt and Chromic Oxide) which are hazardous to respiratory tract builds while abrading. Avoid inhalation of abrasive dust. Air exhaust system advisable. Pay attention to prescribed dust limitations (6mg/m³). Pay attention to limits for Chromic Oxide and Nickel Oxide.



4. First-Aid Measures:

Skin contact: No hazards
Eye contact: No hazards
Inhalation: No hazards
Usual first aid measures while treatment of wounds, burnings, irritations and so on.

5. Fire-Fighting Measures:

Suitable extinguishing media:	Not applicable
Non-suitable extinguishing media:	Not applicable
Other hazards:	Not applicable
Protective equipment:	Not applicable

The material is not explosive and not flammable in the atmosphere.

6. Accidental Release Measures:

Personal precautions:	Not applicable
Environmental precautions:	Not applicable
Methods for cleaning up::	Avoid the formation of dust

7. Handling and Storage:

Handling

Indications for a safe handling Avoid the dust. Vacuum the dust it and carry protective mask.

Storage

Requirements for storage Store in dry rooms and closed boxes. Protect goods against movement.

Indications for clustering: Not applicable

Further indications for storage conditions: No indications

8. Exposure Controls / Personal Protection Equipment:

Engineering measures Good airtion of working areas.
Frequently vacuum of abrading dust while working

Personal protection equipment: During abrading:
Hand protection: Wear protective gloves
Eye protection: Wear goggles
Respiratory protection: Wear respirator mask
Body protection: Wear protective working clothes
General precautions for hygiene: Do not smoke, eat or drink during work

Chrom-VI-Compound:	CAS Nr.1376519-0	Limit value: 0,2mg/m ³ (TRK)
Cobalt oxide:		Limit value: 0,1mg/m ³ (TRK)
Mangan oxide:	CAS Nr.1317-35-7	Limit value: 1 mg/m ³
Fine dust:		Limit value: 6 mg/m ³

9. Physical and Chemical Properties:

Appearance:	solid
Colour:	metal colour, silver colour
Smell:	neutral

	<u>Value</u>	<u>Unit</u>	<u>Method</u>
Melting point:	1.310°C	-	1.370°C
Boiling point:			
Flashpoint:			
Ignition temperature:			

Lower explosion limit:
Upper explosion limit:
Steam pressure:
Density: 8,3g/cm³
Solubility in water: not soluble
Vickers hardness HV10
Expansion coefficient:

Casting temperature:
Yield point MPa
Modulus of elasticity MPa
Ultimate elongation A5 %

10. Stability and Reactivity:

Note Avoid the compound with acids and bases
Avoidable substances, corrosion etc. Not applicable

11. Toxicological Information:

- Acute toxicity relevant LD/ LC 50-Values

Components

- Skin irritation

Components

- Eyes irritation

Components

The possibility of irritation of eyes and respiratory tract while contact with dust.

- Sensitization:

12. Ecological Information:

- Toxicological effects

Components

Type

Value

Species

- Further ecological hints:

No complete natural decomposition. Take notice of TA air limit values while using of exhaust system.

13. Disposal Considerations:

Product:

Mustn't be disposed of together with domestic waste.
Must be disposed with scrap metal
31217 NE Dusts filter
35315 NE Recycling materials
18711 Paper filter
There is an obligation to produce proof

14. Transport information:

Belongs not to dangerous goods in terms of forwarding regulations.

15. Regulatory Information:

Specifications according to European Community guidelines

Hazard symbols	Not applicable
Code letters	Not applicable
Hazard components	

R-Phrases	Not applicable
	Not applicable

S-Phrases	Not applicable
	Not applicable

National Regulations:

Water hazard class	Not applicable
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16. Other Information:

No other information

The statements of this Safety Data Sheet correlate to our actual status of knowledge and comply with the national and european regulations. The other working conditions of the user are not subject to or control and knowledge. The product mustn't be used for any other purpose than indicated in Part 1 without written permission. The user is responsible for respecting all necessary legal regulations. The safety data sheet serves as description of products in regard to necessary safety measures. The indications do not have the meaning of garanties on properties und do not establish a contractual legal relationship.