

Safety Data Sheet (EC) No. 1907/2006

1. Product- and Company Identification

<u>Trade name:</u>	DC Aufbrennlegierung NE (non-precious dental alloy NE), art. No. 714180
<u>Manufacturer:</u>	DC Dental Central Großhandelsges.mbH Carl-Zeiss-Str.2 D-22946 Trittau, Germany
<u>Further information obtainable from:</u>	Tel.: +49 (0)4154/8437 0 Fax: +49 (0)4154/8437 33
<u>Information in case of emergency:</u>	Same as above.

2. Composition/information on ingredients

Chemical characterization					
Co-Cr-Mo-Alloy					
Hazardous Ingredients:					
<u>Description:</u>	<u>CAS-Nr:</u>	<u>EINECS:</u>	<u>Classification:</u>	<u>R-phrases</u>	<u>Percentage %</u>
Molybdenum Mo	7439-98-7	231-107-2	--	--	0,7 – 7
Tungsten W	7440-33-7	231-143-9	--	--	1 – 11
Cobalt Co	7440-48-4	231-158-0	--	--	Rest (50 – 70)
<u>Further information:</u> The information as to risk and precautions given in the chapters 4 to 8, 10 to 12 do not apply to the product itself, but only to dust and vapours generated on working with it.					

3. Hazards identification

<u>Hazard-denotation:</u> Void
<u>Special hazard for human and environment:</u> Void.
<u>Classification system:</u> The classification is in line with the current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

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4. First aid measures

General information: No special measures required.
After inhalation: Fresh air. In case of disorders, please contact a doctor.
After swallowing: In case of continuous disorders, a doctor should be consulted.

5. Fire-fighting measures

General information:
Adapt fire extinguishing methods to site
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:
Product does not burn.
Protective equipment:
No special measures required.

6. Accidental release measures

Person-related safety precautions:
In case of release dust/Aerosol only work with a protection mask.
Measures for environmental protection:
Remains/Dental scrap should be disposed environmentally friendly. Swarf is not allowed to enter drainage system, surface or ground water.
Measures for cleaning/ collecting: --

7. Handling and storage

Handling:
Information for safe handling:
Arrange good ventilation/ exhaustion at workplace. Prevent formation of dust.
Information about protection against explosions and fires:
No special measures required.
Storage:
Storage and container:
Only store in original package. The delivery units need to be protected against sliding, overturning, rolling and falling.
Information about storage in one common storage facility:
Not required.
Further information about storage conditions:
None.

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8. Exposure controls/personal protection

Additional information about design of technical systems:

No further data, see item 7

Components with critical values that require monitoring at the workplace:

	Particulate matter	MAK 6 mg/m ³
1317-35-7	Manganese oxide	MAK 1 mg/m ³
7440-48-4	Cobalt (2, 3,25; TRGS 901-12)	MAK 0,1 E mg/m ³

Eye protection: Safety glasses.

Respiratory protection: Filter device – Filter FFP2

Hand protection: Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
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
Penetration time of glove material: The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed

General protective and hygienic measures: Do not inhale dust, fume, haze.

Additional information: The lists that were valid during the compilation were used as basis.

9. Physical and chemical properties

<u>Form:</u>	Cylinder, rope.
<u>Colour:</u>	Metallic bright.
<u>Smell:</u>	Odourless.
<u>Melting point/ melting range:</u>	1320 - 1420° C
<u>Boiling point/ boiling range:</u>	Not applicable.
<u>Flash point:</u>	Not applicable.
<u>Ignition point:</u>	2000° C
<u>Density:</u>	8,3 g/cm ³ at 20° C
<u>Danger of explosion:</u>	Product is not explosive.
<u>Solubility with water:</u>	Unsoluble.

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10. Stability and reactivity

<u>Conditions to avoid:</u>	No decomposition if used and stored according to specifications.
<u>Dangerous reactions:</u>	No dangerous reactions known.
<u>Hazardous decomposition products:</u>	None.

11. Toxicological information

<u>Acute toxicity:</u>	Results of animal experiments are not known. LD ₅₀ /LC50 values are not known.
<u>Primary irritant effect on the skin:</u>	No irritant effect.
<u>Primary irritant effect on the eye:</u>	No irritant effect.
<u>Sensitization:</u>	No sensitization effect known.
<u>Additional toxicological information:</u>	The product is not subject to classification according to the calculation method of the General ED Classification Guidelines for Preparations as issued in the latest version. Dust is occurring while grinding. The composition of the dust depends on the chemical analysis of the alloy. Essential oxide is released from silicon, molybdenum, tungsten, cobalt. Manganese compound can also occur. Do not inhale grinding dust.

12. Ecological information

<u>General notes:</u>	No water hazards known.
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13. Disposal considerations

<u>Recommendation:</u>	Contact waste material market (alloy) regarding recycling.
<u>EU waste key:</u>	06 03 15 metallic oxides containing heavy metals (Waste which occurs while grinding)
<u>Uncleaned packagings:</u>	Packagings that cannot be cleaned are to be disposed off in the same manner as the product.

14. Transport information

Product is not classified for any mode of transportation.

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15. Regulatory information

Designation according to EC guidelines:

Observe the normal safety regulations when handling with chemicals. The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

General Classification Guideline for Preparations of the EC (BetrSichV): --

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 R-phrases:

This/These phrase(s) apply(ies) to one of the substance of content(s) and do not necessarily mention the classification of the preparation!

R 42/43(Cobalt) May cause sensitisation by inhalation and skin contact

R 53 (Cobalt) May cause long-term adverse effects in the aquatic environment

S 22 Do not inhale dust (Cobalt)

S 24 Do avoid contact with skin (Cobalt)

S 37 Appropriate protection gloves should be worn (Cobalt)