

1. Commercial product name and company identification

- 1.1 Commercial product name **CEKALLOY MC**
- 1.2 Company ALPHADENT NV, Textielstraat 24,
8790 Waregem, Belgium, + 32 (0)56 629 100
- 1.3 Emergency contact Belgian Poison Control Centre (24 hours)
070 245 245
or call a poison control centre in your area

2. Composition

- 2.1 Chemical characterization Cobalt alloy, dental continuous casting
- 2.2 Hazardous components
- | | |
|-----------------|-----------------------|
| <u>Cobalt</u> | |
| CAS / EINECS | 7440-48-4 / 231-158-0 |
| Concentration | 50-70 % |
| R-phrases | R42/43-53 |
| Classification | Xn |
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 | |
| <u>Chromium</u> | |
| CAS / EINECS | 7440-47-3 / 231-157-5 |
| Concentration | 19-30 % |
| R-phrases | --- |
| Classification | --- |
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| <u>Silicon</u> | |
| CAS / EINECS | 7440-21-3/231-130-8 |
| Concentration | 0-2 % |
| R-phrases | --- |
| Classification | --- |
- 2.3 Further information None

3. Hazards information

Hazard designation: void.
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.

4. First aid measures

- | | | |
|-----|---------------------|--|
| 4.1 | Eye contact | Rinse with plenty of running water and seek medical advice. |
| 4.2 | Skin contact | Rinse with water and soap. |
| 4.3 | Ingestion | Rinse out mouth and give water to drink.
In case of continuous disorders, a doctor should be consulted. |
| 4.4 | Inhalation | Fresh air. In case of disorders, a doctor should be consulted. |
| 4.5 | Further information | None |

5. Fire-fighting measures

- | | | |
|-----|------------------------------|--|
| 5.1 | Suitable extinguishing media | Adapt fire extinguishing methods to site.
The product does not burn. In case of fire, metal oxide fume can be released. |
| 5.2 | Extinguishing media to avoid | None |

6. Accidental release measures

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|-----|---------------------------|---|
| 6.1 | Personal precautions | In case of release dust/Aerosol, only work with a protection mask. Arrange good ventilation.
Remains/dental scrap should be disposed environmentally friendly. Swarf is not allowed to enter drainage system, surface or ground water.
Remove grinding dust by vacuuming.
Prevent formation of dust. |
| 6.2 | Environmental precautions | |
| 6.3 | Clean-up methods | |

7. Handling and storage

- | | | |
|-----|----------|--|
| 7.1 | Handling | Arrange good ventilation/exhaustion at workspace.
Prevent formation of dust. |
| 7.2 | Storage | Only store in original package. The delivery units need to be protected against sliding, overturning, rolling and falling. |
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8. Exposure controls / personal protection

8.1	Technical equipment	No further data
8.2	Control of threshold limits	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 7440-47-3 Chrome AGW 2 E mg/m ³ (1 (I); 10, EU) IOELV (EU) 2 mg/m ³ as Cr
8.3	Personal protective equipment	Do not inhale dust, fume, haze.
8.3.1	Respiratory equipment	Filter device – Filter FFP2 (when grinding)
8.3.2	Hand protection	Safety gloves made of natural rubber.
8.3.3	Eye protection	Safety glasses

9. Physical and chemical properties

9.1	Appearance	Cylinder
9.2	Colour	Metallic bright
9.3	Odour	Odourless
9.4	Change in physical state	Melting range: 1250-1420 °C (2282-2588 °F)
9.5	Boiling point	> 2000 °C
9.6	Density	~ 8 g/cm ³ at 20 °C (68 °F)
9.7	Vapour pressure	Not applicable
9.8	Viscosity	Not applicable
9.9	Solubility	In water: insoluble
9.10	pH-value	Not applicable
9.11	Flash point	Not applicable
9.12	Ignition temperature	-
9.13	Explosion limits	Product is not explosive.

10. Stability and reactivity

10.1	Stability	No decomposition if used and stored according to specifications.
10.2	Hazardous reactions	No dangerous reactions known.
10.3	Hazardous decomposition products	None
10.4	Materials to avoid	None

11. Toxicological information

- 11.1 Acute toxicity Results of animal experiments are not known.
11.2 Toxicological tests LD₅₀/LC₅₀ values are not known.
11.3 Primary irritant effect:
- on the skin: No irritant effect
- on the eye: Mild irritation effect
11.4 Sensitization May cause sensitization by inhaling and skin contact.
11.5 Additional toxicological information: 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 when 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, cobalt and chromium oxides can also occur.
Do not inhale grinding dust.

12. Ecological information

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. Disposal considerations

Product:
Recommendation: contact waste material market (alloy) regarding recycling
European waste catalogue:
06 03 15 metallic oxides containing heavy metals (waste which occurs while grinding).
Uncleaned packagings:
Packagings that cannot be cleaned are to be disposed off in the same manner as the product.

14. Transport information

Not classified as dangerous in the meaning of transport regulations

15. Regulatory information

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

Hazard symbol and hazard designation of the product

Xn Harmful

Contains: cobalt, Chromium

R-phrases

- 42/43 May cause sensitization by inhalation and skin contact
53 May cause long-term adverse effects in the aquatic environment

S-phrases

- 22 Do not inhale dust (cobalt)
23 Do not breathe vapour
24 Avoid contact with skin
29 Do not empty into drains
37 Wear suitable gloves
38 In case of insufficient ventilation wear respiratory equipment

H-phrases

- 317 May cause an allergic skin reaction
334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
413 May cause long lasting harmful effects to aquatic life.

Prevention

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.

Response

- P342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

EC Safety Data Sheet

SDS 016.E-ed.A

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Page 6/6

P304+341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P333+313 If skin irritation or rash occurs: Get medical advice/attention.

16. Other information None

The above-mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.
Ref. 91/155/EEC