

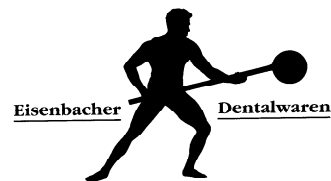


0434

Safety Data Sheet

-Nickel-

According to (EG) 1907/2006 (REACH)



1. Identification of substance and company

Product details: Nickel alloy, Dental Continuous casting
 Product form: Rod, slug, cylinder or varying geometries
 Trade name: KERA N, KERA NC, KERA NH, EDW, KERA LOW, VESCO, VESCO H, KERA NV
 KERA N-DISC, KERA NC-DISC, KERA NH -DISC, EDW-DISC, KERA LOW -DISC, VESCO-DISC, VESCO H-DISC, KERA NV-DISC

Manufacturer: Eisenbacher Dentalwaren ED GmbH
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 Homepage: www.eisenbacher.de

2. Hazards identification

Hazard designation: Not applicable

Information pertaining to particular dangers for man and Environment:



Due to calculating process of the „General ranking for the formation of the EG“ in the last version the product is not subject to marking
 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.

See "other information item 16"

Classification system:

3. Composition/Data on components

The information as to risk and precautions given in the chapters 4 to 8, 10 to 12 do not only apply to the product itself, but primarily to dust and vapors generated on working with it.

Ni-Cr-Mo-Alloy Chemical characterization / Dangerous components

Nickel Ni	Rest 20 - 70 %	CAS: 7440-02-0 EINECS: 231-111-4
Chrom Cr	17 - 28 %	CAS: 7440-47-3 EINECS: 231-157-5
Molybdän Mo	4 - 14 %	CAS: 7439-98-7 EINECS: 231-107-2
Silizium Si	0 - 3 %	CAS: 7440-21-3 EINECS: 231-130-8

4. First aid measures

General information: No special measures required
 After inhaling: Fresh air. In case of disorders, please contact a doctor.
 After skin contact: Wash with water and soap
 After eye contact: Rinse eyes under running water and contact a doctor
 After swallowing: Rinse mouth and drink water. In case of continuous disorders, a doctor should be consulted
 Information for the doctor: Supervisory examination according to the BG guidelines G38, G39 and G40

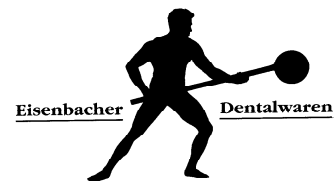


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5. Fire fighting measures

Suitable extinguishing aids: Adapt fire extinguishing methods to site

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: No special measures required.

Protective Equipment: Product does not burn. In case of a fire metal fumes and metal oxides can generate from dust

6. Accidental release measures

Person-related safety precautions: In case of release of fumes/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: Exhaust swarf mechanically

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 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

Storage class: None

Classification according to the Ordinance on Industrial Safety and Health: None

8. Exposure controls and 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:
7440 - 02 - 0 Nickel
MAK 0,5 mg/m³
7440 - 47 - 3 Chrome
MAK 0,5 mg/m³
AGW 2 E mg/m³ (1 (I); 10, EU)
IOELV (EU) 2 mg/m³ as CR

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

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

Breathing equipment: Filter device - Filter FFP2 (abrasive treatment)

Protection for hands: Protective gloves

Material of gloves: Natural rubber

Penetration time of glove material: The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed

Eye protection: Safety glasses

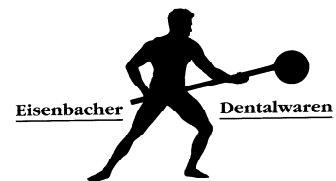


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9. Physical and chemical properties

Form: Rod, slug, cylinder or varying geometries
Colour - product specification: Metallic bright
Smell: odourless
Change in condition: -
Melting point/Melting range (Solidus/Liquidus): 1.300 - 1.400 °C
Boiling point/Boiling range: >2000°C
Flash point: Not applicable
Ignition point: -
Corrosion temperature: Not applicable
Density at 20°C: ~8 g/cm³
Danger of explosion: Product is not explosive
pH-number: Not applicable

Solubility in / Miscibility with water: insoluble

10. Stability and reactivity

Thermal Corrosion/Conditions to avoid: No decomposition if used and stored according to specifications
Dangerous reactions: No dangerous reactions known
Dangerous products of corrosion: No dangerous products of corrosion known

11. Toxicological information

Acute toxicity: Results of animal experiments are not known
Toxicological tests: LD₅₀/LC₅₀ values are not known
Primary irritant effect
- on the skin: No irritant effect
- on the eye: Moderate effect
Sensitization: Sensitization after inhaling and skin contact possible

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 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

General notes: Do not let it pour into surface, ground water or drainage system in large quantity or undiluted

13. Disposal considerations

Recommendation: Contact waste material market (alloy) regarding recycling
European waste catalogue: 06 03 15 metallic oxides containing heavy metals
(Waste which occurs while grinding)
18 01 06 chemicals consisting of or containing dangerous substances (Alloy waste)

Uncleaned packagings: Recommendation: Packagings that cannot be cleaned are to be disposed off in the same manner as the product

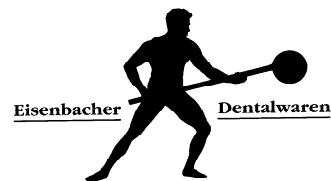


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14. Transport information

Ground transport ADR/RID und GGVS/GGVE (cross-border/domestic): -
 Maritime transport IMDG/GGV sea: -
 Air transport ICAO-TI und IATA-DGR: -
 Transport/ other information: Not classified as dangerous goods in the meaning of transport regulations

15. Regulatory information

Designation according to EC guidelines: Observe the normal safety regulations when handling with chemicals. The product is subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

National regulations:
 General Classification Guideline for Preparations of the EC: n. a.
 Classification letter and hazard description of product: Xn Dangerous to health
 Hazard defining components for labeling: Nickel

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 and S-phrases: This(These) Phrase(es) apply(ies) for one of the ingredient(s) and does(do) not necessarily indicate rankings of the preparation!

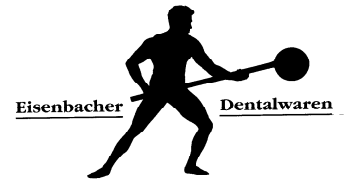
S2 May not get into hands of children.
 S22 Do not inhale dust (Nickel)
 S23 Do not inhale gas/fume/haze/aerosol
 S24 Avoid skin contact (Nickel)
 S37 Wear suitable protective gloves (Nickel)
 S29 Do not let it pour into drainage system (waste/mud)
 S38 Wear protective mask if not ventilated properly.
 R40 Suspicion of cancer-producing effect (Nickel metal if inhaling)
 R42/43 After inhaling and skin contact sensitization possible.
 R48/23 toxic: Danger of great health damages after inhaling for a long period of time.
 R52/53 Dangerous for water organism. (Nickel) Can result in long term damages in water.
 H334 Can cause allergies or asthmatic symptoms after inhaling
 H317 Can cause allergic skin reactions. Nickel is according to. 1. ATP of the CLP-act (EU) 1272/2008 also in category 3.9/1, H372 ranked. Only for Nickel in respiratory form According to enclosure 1 Kap. 1.3.4. of the CLP-act (EU)1272/2008, nickel is not ranked as compact metal in Kat. 3.9/1, H372.
 H351 Is likely to cause cancer.
 H413 Can be dangerous for water organism; long term effect.



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Prevention:

- P280 Wear protective gloves/clothes / eye protection / protection mask
- P285 Wear protection mask if not ventilated properly.
- P260 Do not inhale dust.

Reaction:

- P302+P313 After skin contact: wash with a lot of water and soap.
- P304+P341 After inhaling: Get fresh air and try to find a position in which breathing is easier
- P333+P313 Please consult a doctor after rash.
- P342+P311 Should symptoms of the air passages occur, please consult doctor or toxic information center

Responsible:
Contact:

Eisenbacher Dentalwaren ED GmbH
Oliver Hagedorn