



According to EG 1907/2006 (REACH)

1. Identification of substance and company				
1.1 Trade name:	KERA N, KERA NH, KERA NC, EDW, VESCO, VESCO H			
1.2 Product details:	Nickel alloy, Dental Continuous casting; or other casting process			
Product form:	Rod, disc, cylinder, or varying geometries			
Purpose:	The production of crowns, bridges and dentures in dentistry			
1.3 Manufacturer:	Eisenbacher Dentalware	n ED GmbH		
Street:	DrKonrad-Wiegand-Str. 9			
ZIP/city/Country.:	63939 Woerth / GERMANY			
Phone:	+49 9372 - 94 04 0			
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Information department: Emergency information:	Klaus Renner +49 9372 - 94 04 - 130 <u>k.renner@eisenbacher.d</u> +49 9372 - 94 04 - 130	<u>e</u>		
Email:	info@eisenbacher.de			
Homepage:	www.eisenbacher.de			
2. Hazards identification				
2.1 Hazard designation:	Not applicable - see s	ection 2.2		
Information pertaining to particular dangers for man and environment:		procedure of the "General rating paration of the EG" in the ultimate version bject to marking.		
User:	Skilled personnel (Den	tal technicians, dentists)		
Classification system:	he 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.			
2.2 Hazard warning: The following marking shall not apply to the all only for the processing and treatment may be in Vapors, fumes and dusts.		g and treatment may be incurred		
(*)	H251 Self-heating; may catch	fire		
GEFAHR	H250 Ignites on contact with			
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	H∠6U in contact with water re	eleases flammable gases which may ignite spontaneously.		
2.3 Other hazards in the supply and processing of the alloy:	Inhalation of grinding dust, irritation of the skin and eyes.			
3. Composition/Data on compo	pnents			
The information as to risk a	and precautions given in	the chapters 4 to 8, 10 to 12 do not only g dust and vapours generated on working		
3.1 Chemical composition:				
Ni-Cr-Alloy		Chemical characterization:		
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		
Molydän Mo	4 - 14 %	CAS: 7439-98-7		
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	EINECS: 231-107-2
Silicium Si	0 - 3 % CAS: 7440-21-3 EINECS: 231-130-8
4. First aid measures	
4.1 General information:	No special measures required
4.2 Important acute and delayed symptoms and effects:	
After inhaling:	Fresh air; in case of disorders, please contact a doctor.
After swallowing:	Rinse out the mouth and drink water afterwards. In case of continuous disorders, a doctor should be consulted
After skin contact: After eye contact:	Wash with water and soap Rinse eyes under running water and consult a doctor
4.3 Information for the doctor:	Control examination according to the BG-guidelines G39
5. Fire fighting measures	
5.1 Suitable extinguishing aids:	Use firefighting measures that suit the environment. ABC dry powder, foam or sand. NO WATER!
5.2 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:	Metal vapors and metal oxides in the form of smoke and gas. Dusts are self-heating and can catch fire. Spontaneous combustion on contact with air. In contact with water releases flammable gases which may ignite spontaneously.
5.3 Protective equipment:	Only use the specified under 5.1 Extinguishing media. Avoid inhalation of fumes!
6. Accidental release measur	res
6.1 Person-related safety precautions:	If the effects of fumes dust aerosol: aerosols. Use in the absence of aspiration breathing. Ensure adequate ventilation.
6.2 Measures for environmental protection:	Remains/Dental scrap should be disposed environmentally friendly. Swarf is not allowed to enter drainage system, surface or ground water
6.3 Measures for cleaning/collecting: 6.4 Reference to other sections:	Dry grinding dust by mechanical means or suckers record and disposal in appropriate containers fill, dust generation. Not use compressed air blow not. see section 4.ff
7. Handling and storage	
7.1 Information for safe handling:	Arrange good ventilation/exhaution at workplace. Prevent formation of dust. During thermal processing or splinter processing Extractors are required on the processing machines.
7.2 Conditions for safe storage, including intolerances:	Only in the original container. The delivery units must be secured against sliding, tilting, rolling and falling.
Common storage notes:	not required





According to EG 1907/2006 (REACH)

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Storage and container:	Only store in original package. The delivery units need to be protected against sliding, overturning, rolling and falling.	
Further information about storage conditions:	None	
Storage class: Classification according to Ordinal on Industrial Safety and Health:	VCI 13 Deleted	
7.3 Specific end uses:	Guarantee batch traceability.	
8. Exposure controls and per	rsonal protection	
8.1 To be monitored parameter:	Particulate matter limits by TRGS 900	
8.2 Limiting and monitoring exposure:	7440 - 02 - 0 Nickel MAK 0,5 mg/m³ 7440 - 47 - 3 Chrome MAK 0,5 E mg/m³ AGW 2 E mg/m³ (1 (I); 10, EU) IOELV (EU) 2 mg/m³ als Cr Please note a valid general particulate matter limit values according to TRGS 900	
Personal protective equipment:	Wear safety shoes. Respiratory protection: In case of inadequate ventilation or lack of suction FFP3 mask. Protective gloves: At least protection index 2 injection contact recommended, corresponding to more than 30 minutes of permeation time according to EN 374 Min thickness / gloves = 0.4 mm With longer and frequent contact Protective index 6 recommended, according to more than 480 minutes of permeation time according to EN 374 Min thickness / gloves = 0.7 mm Material of gloves: - butyl rubber - Fluorocarbon rubber (Viton) - nitrile - Natural rubber (latex) - chloroprene rubber - Neoprene gloves Penetration time of glove material: The exact penetration time for the protective gloves and has to be observed. Eye protection: Goggles (DIN 58211, EN 166) Body protection: Light protective clothing	
General protective and hygienic measures:	During processing not eat, drink or smoke. Wash hands before breaks and after finishing work. Avoid contact with eyes and skin. Dust, smoke, Do not inhale fumes.	
9. Physical and chemical pro	pperties	
9.1 Information on basic physical and chemical properties:	Tensile strength: ~ 530 - 560 MPa	





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9.2 Other information:	Hardness: ~ 160 - 290 HV 10 Elongation: > 3 - 30% Young's modul: ~ 115 GPa density: 8.2 - 8.5 g/cm ³ Coefficient of thermal expansion: ~ 14 - 16 (x10-6x1) Melting point: ~ 1310 - 1400 ° C Danger of explosion: Product is not explosive ph: not applicable Form: Rod, disc, cylinder or varying geometries Colour - product specification: Metallic bright Smell: Odorless Solubility in / Miscibility with water: Unsoluble Inflammability: non-flammable
10. Stability and reactivity	,
10.1 Reactivity: 10.2 Chemical stability: 10.3 Possibility of hazardous reactions: 10.4 Conditions to avoid: 10.5 Incompatible materials: 10.6 Hazardous decomposition products:	not applicable not applicable not applicable not applicable not applicable No hazardous decomposition products
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11. Toxicological information 11.1 Information on toxicological effects:	The product does not trigger toxic reactions and is not allergenic. Inhalation of dust may result in respiratory irritation. Irritation of the eyes and skin are possible through direct contact with the dust.
12. Ecological information	concace with the date.
12.1 Acute toxicity: 12.2 Persistence and degradability: 12.3 Bioaccumulative potential: 12.4 Mobility in soil: 12.5 Results of PBT and vPvB assessment: 12.6 Other adverse effects:	Results of animal experiments are not known not applicable not known not applicable not known The product is not subject to classification according to the calculation method of the General Classification guideline for preparations of the European Community in the last version.
13. Disposal considerations	
13.1 Waste treatment Methods:	The disposal of the product does not pose any danger, however, the waste must be disposed of according to national or regional





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Versions-No.: 04 Valid from: 12/2014 Replaces version No. 03 from 05/2013

regulations. Recommendation: Contact waste material market (alloy) regarding recycling European waste catalogue 06 03 15: - The waste created when grinding 12 01 01 - Ferrous metal filings and filing Contaminated packaging: recommendation: Contaminated packaging must be disposed of like the product. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. 14. Transport information 14.1 UN number: 14.2 UN proper shipping Name: not applicable 14.3 Transport Hazard Dental alloys are not a dangerous good under transport regulations: - Ground transport ADR/RID und GGVS/GGVE (crossborder/domestic) Maritime transport IMDG/GGV sea Air transport ICAO-TI und IATA-DGR 14.4 Packing Group: not applicable 14.5 Environmental hazards: see section 13 14.6 Special precautions: No special precautions 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and under IBC Code: See 14.3 15. Regulatory information 15.1 Safety, health and environmental regulations / legislation specific for the substance or Designation according to EC guidelines: mixture: The product is not subject to EU-Richtlinien/GefStoffV. The usual precautionary measures for handling chemicals should be observed (see section 6.1). Klassification by Betriebssicherheitsverordnung (BetrSichV): inapplicable Code letter and hazard designation of product: inapplicable Hazard-determining components of labeling: ${\tt inapplicable}$ 15.2 chemical safety Not applicable assessment:

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.

Eisenbacher Dentalwaren ED GmbH makes no express or implied warranty or guarantee as to the accuracy, reliability or completeness of the information. Persons receiving this information are encouraged by Eisenbacher dental goods ED GmbH deliver the product to any other than the intended purpose of section 1.2. The user is responsible for compliance with all relevant legal requirements.

The product must be used by trained dental technicians who have knowledge of the proper use





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Relevant H- und P-phrases	Н317	May cause an allergic skin reaction.		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	н351	Can probably cause cancer		
	Н372	Causes damage to organs (all organs affected) through		
		prolonged or repeated exposure (state route of		
		exposure if it is conclusively proven that no other		
		routes of this danger exists).		
	H412	Harmful to aquatic life with long lasting effects		
	P333+P313	Consult doctor after rash		
	P280	Wear protective gloves/clothes/ eye cover/ facemask		
	P260	Do not inhale dust		
	P285	In case of inadequate ventilation wear respiratory		
		protection.		
Abbreviations and Terms	ADR:	Accord européen sur le transport des marchandises		
		dangereuses par route		
	CAS:	Chemical Abstracts Service (division of the American		
		Chemical Society)		
	CLP:	Classification Labelling Packaging		
	EINECS:	European Inventory of Existing Commercial Chemical		
	00	Substances		
	GHS:	Globally Harmonized System		
	H-Satz:	Hazard statement (Gefährdungen)		
	IATA:	International Air Transport Association		
	TATA-DGR:	Dangerous Goods Regulations by the "International Air		
	ICAO:	Transport Association" (IATA) International Civil Aviation Organization		
	ICAO: ICAO-TI:	Technical Instructions by the "International Civil		
	TCMO-II:	Aviation Organization" (ICAO)		
	TMDG:	International Maritime Code for Dangerous Goods		
	LC50:	Lethal concentration, 50 percent		
	LD50:	Lethal dose, 50 percent		
	P-Satz:	Precautionary statement (Vorsichtsmaßnahmen)		
	PBT:	Provider Backbone Transport		
	RID:	Règlement international concernant le transport des		
		marchandises dangereuses par chemin de fer		
		(Regulations Concerning the International		
		Transport of Dangerous Goods by Rail)		
	vPvB:	very persistent very bioaccumulating		