

MATERIAL SAFETY DATA SHEET

DATE OF FIRST ISSUE

20-Sep-2009

DATE OF LAST REVISION

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1. IDENTIFICATION OF THE PREPARATION AND COMPANY

EMERGENCY NUMBER

00 49 2371 83 55 18

CAS Number N/A

EINECS Number N/A

IDENTIFICATION OF THE PRODUCT

Nickel based Alloy

IDENTIFICATION OF THE MANUFACTURER

realloy e.K

Karnacksweg 35/b

DE-58636-Germany

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INTENDED USE OF PRODUCT

dental alloy

User

qualified staff (e.g.dental technicians, dentists)

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2. COMPOSITION/INFORMATION INGREDIENTS

ELEMENT	% (Nominal)	CAS	EINECS	R PHRASE
Nickel	Balance	7440-02-0	231-111-4	R40, R43
Chromium	25	7440-47-3	231-157-5	Not classified in supplied form (in supplied form)
Molybdenum	11 Max	7439-98-7	231-107-2	Not classified
Silicon	1,5 Max	7440-2	231-130-8	Not classified

3. HAZARDS IDENTIFICATION

Hazard designation: void

Information to particular dangers for man and environment: void

Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

Additional information:

Vapors and grinding dust may contain harmful components.

4. FIRST AID MEASURES

If dusts, fumes or smokes were inhaled sufficient fresh air should be provided. If applicable a doctor should be consulted. In case of eye contact it should be rinsed thoroughly several minutes under running water. If applicable a doctor should be consulted.

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5. FIRE FIGHTING MEASURES

Suitable extinguishing method	Water, CO ² , Powder are all safe
Extinguishing media which must not be used	None
Exposure hazards and combustion products	In the event of a fire this preparation may release Toxic Fume
Special protective equipment for fire fighters	Suitable respiratory equipment should be used by fire

The material is inflammable and not oxidizing. In case of large quantities of dust the danger of dust an explosion is given. Toxic reaction products may occur by high temperatures. All extinguishing agents are suitable. Favourable are sodium chloride, dry sand.

6. ACCIDENTAL RELEASE MEASURES

No personal precautions Contaminations should be picked up mechanically.

7. HANDLING AND STORAGE

By appropriate application no special measures for handling or storage are necessary. Sufficient suction should be guaranteed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection

Ensure suitable suction. If applicable use respirator (particle filter according to DIN EN 143)

Eye protection

If applicable use safety glasses

Hand protection

If applicable use protective gloves (e. g. by known allergies against one or more alloy components)

Working hygiene measures

The usual safety precautions for working with chemical substances should be taken account of. During working to not eat, drink, smoke or snuff tobacco. Regard legal instructions for working hygiene Wash face and hands before break and/or end of work

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Metallic cylinders
Oxidising Properties	Non oxidising
Odour	None
Vapour Pressure	No data available
pH	Insoluble in water
Relative Density	8.35g/cm ³
Boiling Point	No data available
Solubility	Not soluble in water
Melting Range	1280 – 1320°C
Partition Coefficient	No data available
Flash point	No data available
N-octane/water	No data available
Flammability	Non flammable
Viscosity	Solid
Auto Flammability	No data available
Vapour Density	No data available
Explosive Properties	Non explosive
Evaporation Rate	No data available

10. STABILITY AND REACTIVITY

Conditions to avoid	None
Materials to avoid	None
Hazardous decomposition products	None

11. TOXICOLOGICAL INFORMATION

No dangerous reactions are known to occur with correct handling and storage

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12. ECOLOGICAL INFORMATION

Normally chemical substances, which accumulate as residual material, are special refuses. The removal is defined by legal waste management laws and corresponding regulations. In case of doubt contact the public authorities. Prevent penetration into soil, water and drainage systems.

13. DISPOSAL CONSIDERATIONS

The user should have regard to any local legislation which is applicable to the disposal of waste from this preparation.

14. TRANSPORT INFORMATION

Non-dangerous product for transport by land, sea and air.

15. REGULATORY INFORMATION

Classification according to EU directives: according to preparation directive(1999/45/EG):

No classification necessary | Classification according to national directives: No classification necessary

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16. Other Information

- General** In all situations the local legislation must apply to enable this product to be used safely Training Ensure that the person using this product is suitably trained and is aware of the hazards associated with its use.
- Restrictions on use** This product should only be used by competent persons and for the intended application.

The information provided in this Material Safety Data Sheet (MSDS) is correct to the best of our knowledge, information and belief at the date of its publication. They describe the product in respect of safety recommendations. The given information do not cause a legal relation ship. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warrant or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The described product is to be used exclusively for the intended use (dental alloy). This version replaces all older issues.

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| R 11 - easily inflammable | S 17 - Keep away from inflammable substances |
| R 12 - highly inflammable | S 22 - Do not inhale dust |
| R 14 - Reacts intensively with water. | S 24 - Avoid skin contact |
| R 15 - Reacts with water under formation
of inflammable gases | S 37 - Use favourable protective gloves |
| R 17 - self inflammable at air | S 61 - Avoid release in to the environment |
| R 40 - Suspicion of cancerogenity | |
| R 42 - Due to inhalation sensibilisation is possible | |
| R 43 - Due to skin contact sensibilisation is possible | |
| R 53 - May have long term effects on body water | |
| Xn - Hazardous | |