

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

DENTAL ALLOYS IN POWDER
Product code : KERAMIT NP-S

1.2. Relevant identified uses of the substance or mixture and uses advised against

Dental alloys
Professional use

Uses advised against
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

Nobil Metal Spa
Strada San Rocco, 28 - 14018 Villafranca d'Asti - Italy
tel. +39 0141 933811 fax +39 0141 943840

Email: contact@nobilmetal.it - Sito internet: www.nobilmetal.it

Email tecnico competente: a.mantovani@nobilmetal.it

1.4. Emergency telephone number

+39 0141 933811 - 8.30-12,30 / 13.30-17.30

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:
GHS07, GHS08

Hazard Class and Category Code(s):
Skin Sens. 1, Resp. Sens. 1, Aquatic Chronic 4

Hazard statement Code(s):
H317 - May cause an allergic skin reaction.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H413 - May cause long lasting harmful effects to aquatic life.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):
GHS08 - Danger

Hazard statement Code(s):
H317 - May cause an allergic skin reaction.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H413 - May cause long lasting harmful effects to aquatic life.



Precautionary statements:

Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...

Contains:

cobalt

2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

The use of this chemical agent involves the obligation of "risk assessment" by the employer in accordance with the provisions of Legislative Decree n. 81 April 9, 2008. Workers exposed to this chemical agent should not be subject to health surveillance if the results of the risk assessment show that, depending on the type and amount of hazardous chemical agent and the method and frequency of exposure to the agent, you only a "moderate risk" for the health and safety of workers and that the measures envisaged in the same legislative decree are sufficient to reduce the risk.

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of risk phrases and hazard statements

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
cobalt	> 50 <= 75%	Skin Sens. 1, H317; Resp. Sens. 1, H334; Aquatic Chronic 4, H413	027-001-00-9	7440-48-4	231-158-0	
Chromium	> 20 <= 30%			7440-47-3	231-157-5	
Tungsten	> 5 <= 10%			7440-33-7	231-143-9	
Molybdenum	> 1 <= 5%			7439-98-7	231-107-2	
Niobium	> 0,1 <= 1%			7440-03-1	231-113-5	
Silicon	> 0,1 <= 1%			7440-21-3	231-130-8	

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin:

Wash thoroughly with soap and running water.

Direct contact with eyes:

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

Rinse mouth with water, if you feel unwell seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

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

If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...

SECTION 5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Wear mask, gloves and protective clothing.

Provision of sufficient ventilation.

6.2. Environmental precautions

Contain spill

Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or the removal.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid inhalation of dust. Avoid contact with skin and eyes. Provision of sufficient ventilation.

At work do not eat or drink.

See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.

Store in a dry and cool place.

7.3. Specific end use(s)

Professional use:

Handle with care. Avoid formation of dust

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

cobalt

TLV: 00:02 mg / m³ as TWA A3 (confirmed animal carcinogen with unknown relevance to humans); EIB published (ACGIH 2004).

MAK: (inhalable fraction) sensitization of respiratory tract and skin (Sah); Carcinogen: Group 2 mutagenic to germ cells: 3A (DFG 2003).

8.2. Exposure controls

Appropriate engineering controls:

Only for professional dental technician :

Nothing to report



Individual protection measures:

(a) Eye / face protection

When handling the pure product use safety glasses (spectacles cage) (EN 166).

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other

When handling the pure product wear full protective skin clothing.

(c) Respiratory protection

Needed in case of insufficient ventilation or prolonged exposure.

Use adequate protective respiratory equipment (EN 141)

(d) Thermal hazards
 No hazard to report

Environmental exposure controls:

cobalt

Do NOT let this chemical contaminates the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	powder	
Odour	odourless	
Odour threshold	irrelevant	
pH	irrelevant	
Melting point/freezing point	1305-1370°C	
Initial boiling point and boiling range	undefined	
Flash point	nonflammable	ASTM D92
Evaporation rate	irrelevant	
Flammability (solid, gas)	nonflammable	
Upper/lower flammability or explosive limits	irrelevant	
Vapour pressure	irrelevant	
Vapour density	irrelevant	
Relative density	8.3 g/cm ³	
Solubility(ies)	not soluble	
Water solubility	not soluble	
Partition coefficient: n-octanol/water	irrelevant	
Auto-ignition temperature	irrelevant	
Decomposition temperature	irrelevant	
Viscosity	irrelevant	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

Nothing to report

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ATE(mix) oral = 0,0 mg/kg
ATE(mix) dermal = 0,0 mg/kg
ATE(mix) inhal = 0,0 mg/l/4 h

- (a) acute toxicity: not applicable
- (b) skin corrosion/irritation: not applicable
- (c) serious eye damage/irritation: not applicable
- (d) respiratory or skin sensitization: The product, if inhaled, can cause respiratory sensitization, and if brought into contact with skin can cause skin sensitization.
- (e) germ cell mutagenicity: not applicable
- (f) carcinogenicity: not applicable
- (g) reproductive toxicity: not applicable
- (h) specific target organ toxicity (STOT) single exposure: not applicable
- (i) specific target organ toxicity (STOT) repeated exposure: not applicable
- (j) aspiration hazard: not applicable

KERAMIT NP-S:
LD50 (rat) Oral (mg/kg body weight) = 6171

Related to contained substances:
cobalt

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation.

INHALATION RISK: A harmful concentration of airborne particles can be reached quickly when dispersed.

EFFECTS OF SHORT-TERM EXPOSURE: The substance (as fume or dust) and 'mildly irritating to the respiratory tract

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: Repeated or prolonged contact may cause skin sensitization. Repeated or prolonged inhalation exposure may cause asthma. Lungs may be affected by repeated or prolonged. It 'possible that this substance is carcinogenic to man.

ACUTE HAZARDS / SYMPTOMS

Cough. Shortness of breath. Sore throat. Dyspnea. Redness. Ingestion Abdominal pain. Vomiting.

NOTES Depending on the degree of exposure, periodic medical examination is indicated. The symptoms of asthma often do not manifest until a few hours and they are aggravated by physical effort. They are therefore essential the rest and observation by medical. Anyone who has shown symptoms of asthma due to this substance should avoid any further contact. Do NOT take working clothes home.

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:

cobalt

The substance is toxic to aquatic organisms. Can there Bioaccumulation of this chemical in fish and mollusc
The product can cause long-term adverse effects in the aquatic environment, being hardly degradable and / or bioaccumulative

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Operate according to local or national regulations

SECTION 14. Transport information

14.1. UN number

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Description of the hazard statements exposed to point 3

H317 = May cause an allergic skin reaction.

H334 = May cause allergy or asthma symptoms or breathing difficulties if inhaled

H413 = May cause long lasting harmful effects to aquatic life.

Classification based on data of all mixture components

GENERAL BIBLIOGRAPHY:

1. Directive 1999/45/EC and subsequent updates
2. Directive 67/548/EEC and subsequent amendments and adjustments
3. Council Regulation (EC) 1907/2006 of the European Parliament (REACH)
4. Regulation (EC) 1272/2008 of the European Parliament (CLP) and subsequent updates
5. Council Regulation (EC) no 758/2013 of the European Parliament
6. Regulation (EC) no 453/2010 of the European Parliament
7. Regulation (EC) No 528/2012 European Parliament and subsequent updates
8. Council Regulation (EC) 648/2004 of the European Parliament and subsequent updates
9. The Merck Index And 10.
10. Handling Chemical Safety
11. Niosh Registry of Toxic Effects of Chemical Substances
12. INRS-Centre Piece
13. Patty-Industrial Hygiene and Toxicology
14. N.I. Sax-Dangerous properties of Industrial Materials-7 Ed., 1989

Note to the user:

the information in this tab are based on knowledge available to us on the date of the latest version.

The user must ensure the fitness and completeness of the information in relation to the specific use of the product.

You should not interpret it as a guarantee of any specific property of the product.

For the use of the product does not fall under our direct control, the obligation of the user to observe under their own liability laws and regulations on hygiene and safety. Do not assume liability for improper use.

This tab replaces and cancels all previous