

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURES AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product Name Matchmate NP10

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

No further relevant information available

#### Application of the substance/the mixture

For the production of dental prostheses in the dental laboratory

### 1.3. Details of the supplier of the safety data sheet

Manufacturer Eisenbacher Dentalwaren ED GmbH  
Dr. - Konrad - Wiegand - Straße 9  
63939 Wörth / Main, Germany  
[www.eisenbacher.de](http://www.eisenbacher.de)

Distributor Davis Schottlander & Davis Ltd  
Fifth Avenue, Letchworth Garden City  
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## 2. HAZARDS IDENTIFICATION

Medical devices according to EG 2017-745 in their final state are exempted from the GB CLP legislation.

### 2.1. Classification of the substance or mixture Regulation (EC) No. 1272/2008

#### Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

The following classification is not applicable to the alloy but only for the fumes, smoke and dust formed during the processing and machining.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

#### Additional information:

The specified classification and labelling relate to safe handling of the alloy and the manufacturing of dental prostheses and not for application in the oral cavity.

### 2.2. Label elements

Medical devices according to EG 2017-745 in their final state are exempted from the GB CLP legislation. The following labelling is not applicable to the alloy but only for the fumes, smoke and dust formed during the processing and machining.

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

The product is classified and labelled according to the GB CLP regulation.

## Hazard pictograms



GHS08

Signal word Danger

## Hazard statements

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

H317 May cause an allergic skin reaction.

H413 May cause long lasting harmful effects to aquatic life.

## Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapour/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P284 [In case of inadequate ventilation] wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P362+P364 Take off contaminated clothing and wash it before reuse.

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

P321 Specific treatment (see on this label).

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## Information pertaining to particular dangers for man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1. Substances

No information provided

## 3.2. Chemical Characterisation: Mixtures

Description: Cobalt based alloy

## Dangerous components:

CAS: 7440-48-4	cobalt	≥50-≤100%
EINECS: 231-158-0	Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1B, H350; Repr. 1B, H360F; Skin Sens. 1, H317; Aquatic Chronic 4, H413	
Index number: 027-001-00-9		
CAS: 7440-47-3	chromium	≥10-<50%
EINECS: 231-157-5	substance with a Community workplace exposure limit	
CAS: 7440-33-7	tungsten	≥2.5-<25%
EINECS: 231-143-9	substance with a Community workplace exposure limit	
CAS: 7440-21-3	silicon	≥0-<10%
EINECS: 231-130-8	Flam. Sol. 2, H228	

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

**General information** No special measures required.

**After inhalation** : Supply fresh air; consult doctor in case of symptoms.

**After skin contact** : Wash with water and soap.

**After eye contact** : Rinse opened eye for 15 minutes under running water. Then consult doctor.

After swallowing :

Rinse out mouth and then drink plenty of water (approx. 500 ml). In case of persistent symptoms consult doctor.

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

No further relevant information available

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

No further relevant information available

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing agents:**

Use fire fighting measures that suit the environment.

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with foam. ABC powder

Sand

### 5.2 Special hazards arising from the substance or mixture

Fire can cause release of :

Metal vapour and metal oxides as fumes.

### 5.3 Advice for firefighters

**Protective equipment:** Do not inhale explosion gases or combustion gases.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid causing dust. Wear protective clothing.

Ensure adequate ventilation

Use breathing protection against the effects of fumes/dust/aerosol.

### 6.2 Environmental precautions:

Do not allow concentrated solutions to enter drainage system, surface or ground water.

### 6.3 Methods and material for containment and cleaning up:

Collect mechanically.

### 6.4 Reference to other sections

See section 7 for information on safe handling

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Prevent formation of dust.  
Provide suction extractors if dust is formed.  
Ensure good ventilation/exhaustion at the workplace.  
Extractors are required on all machines used for thermal processing or metal removal processes.  
**Information about protection against explosions and fires:** No special measures required.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

**Requirements to be met by storerooms and containers:** No special requirements.  
**Information about storage in one common storage facility:** Not required.  
**Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

### 7.3 Specific end use(s) No further relevant information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Components with critical values that require monitoring at the workplace:

7440-48-4 cobalt				
WEL (Great Britain)		Long-term value: 0.1 mg/m <sup>3</sup>		
		as Co; Carc, Sen		
7440-47-3 chromium				
WEL (Great Britain)		Long-term value: 0.5 mg/m <sup>3</sup>		
IOELV (European Union)		Long-term value: 2 mg/m <sup>3</sup>		
		as Cr		
7440-33-7 tungsten				
WEL (Great Britain)		Short-term value: 10 mg/m <sup>3</sup>		
		Long-term value: 5 mg/m <sup>3</sup> as W		
7440-21-3 silicon				
WEL (Great Britain)		Long-term value: 10* 4** mg/m <sup>3</sup>		
		*inhalable dust **respirable dust		

Ingredients with biological limit values:

CAS No.	Designation of material	%	Type	Value	Unit
	General dust exposure limit,		German TRGS 900 (2015)	1,25	mg/m <sup>3</sup>
	measured as alveolic part				

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

### 8.2. Exposure controls

#### Personal protective equipment

#### General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals.  
Wash hands during breaks and at the end of the work.  
Do not eat, drink or smoke while working.  
Avoid contact with the eyes and skin.  
Do not inhale dust / smoke / mist.

#### Breathing equipment:

Use breathing protection in case of insufficient ventilation. Short term filter device: ABEK-filter  
Filter P3.

**Protection of hands:**

Protective gloves:

In case of spray contact at least protection index 2 recommended, according to more than 30 min. penetration time (EN 374).

Layer thickness of gloves at least: 0.4 mm

In case of prolonged and intensive contact protection index 6 recommended, according to more than 480 min. penetration time (EN 374).

Layer thickness of gloves at least: 0.7 mm

**Material of gloves**

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

Natural rubber, NR

Chloroprene rubber, CR

Neoprene gloves

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Safety glasses (DIN 58211, EN 166)

**Body protection:** Light weight protective clothing

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

**General Information**

Appearance:

Form: Solid  
Colour: Silver-coloured

Smell: Odourless

Odour threshold: not applicable

pH-value: Not applicable.

Change in condition

Melting point/freezing point: 1,390-1,415 °C

Initial boiling point and boiling range: 2000 °C

Flash point: Not applicable

Inflammability (solid, gaseous) not applicable

Auto-ignition temperature: not applicable

Decomposition temperature: not determined

Explosive properties: Product is not explosive.

Critical values for explosion:

Lower: not applicable

Upper: not applicable

Dust explosion class:

Oxidising properties: not applicable

Steam pressure: Not applicable

Density at 20 °C: 8 g/cm<sup>3</sup>

Evaporation rate: not applicable

Solubility in / Miscibility with Water: Insoluble

Partition coefficient: n-octanol/water: not applicable

Viscosity:

dynamic: Not applicable.

kinematic: Not applicable.

Solvent content:

Solids content: 100.0 %

## 9.2 Other information

No further relevant information available.

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

No further relevant information available.

### 10.2 Chemical stability

Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known

### 10.4 Conditions to avoid

No further relevant information available.

### 10.5 Incompatible materials:

No further relevant information available.

### 10.6 Hazardous decomposition products:

Formation of metal vapour when melting

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met.  
**LD/LC50 values that are relevant for classification:** Oral LD50 >2,000 mg/kg (rat)

#### Primary irritant effect:

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

#### Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

**Subacute to chronic toxicity:** Do not breathe dust.

Harmful: possible risk of irreversible effects through inhalation.

#### Additional toxicological information:

**Repeated dose toxicity** No further relevant information available.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

May cause cancer.

Suspected of causing genetic defects.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Aquatic toxicity:** No further relevant information available.

### 12.2 Persistence and degradability

No further relevant information available.

**Other information:** Inorganic salts are basically not biodegradable.

### 12.3 Bioaccumulative potential

Does not accumulate in organisms

### 12.4 Mobility in soil

No further relevant information available.

#### Ecotoxicological effects:

**Remark:** No data

#### Other information:

No COD, no BOD, no AOX

No VOC (0%) according to EC-directive 1999/13/EC

#### Additional ecological information:

**General notes:** Do not allow product to reach ground water, water bodies or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into soil.

### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

### 12.6 Other adverse effects

No further relevant information available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Contact manufacturer for recycling information.

Must be specially treated in adherence to official regulations.

#### Uncleaned packaging:

##### Recommendation:

Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning. Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Dispose of packaging according to regulations on the disposal of packaging.

**Recommended cleaning agent:** Water, if necessary with cleaning agent.

## 14. TRANSPORT INFORMATION

### 14.1 UN-Number

ADR/RID/ADN, IMDG, IATA

Void

### 14.2 UN proper shipping name

ADR/RID/ADN, IMDG, IATA

Void

<b>14.3</b>	<b>Transport hazard class(es)</b> ADR/RID/ADN, IMDG, IATA Class	Void
<b>14.4</b>	<b>Packing group</b> ADR/RID/ADN, IMDG, IATA	Void
<b>14.5</b>	<b>Environmental hazards:</b>	Not applicable.
<b>14.6</b>	<b>Special precautions for user</b>	Not applicable.
<b>14.7</b>	<b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
	<b>Transport/Additional information:</b>	Not dangerous according to the above regulations.
	<b>UN "Model Regulation":</b>	Void

## 15. REGULATORY INFORMATION

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

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I**

None of the ingredients is listed.

**National regulations**

**Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

**Other regulations, limitations and prohibitive regulations**

The general dust exposure limit of 1.25 mg/m<sup>3</sup>, measured as alveolic part has to be observed (German TRGS 900, 2015).

### 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

## 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 phrases**

H228 Flammable solid.

H317 May cause an allergic skin reaction.

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

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H360F May damage fertility.

H413 May cause long lasting harmful effects to aquatic life.

**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Sol. 2: Flammable solids – Category 2  
Resp. Sens. 1: Respiratory sensitisation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Muta. 2: Germ cell mutagenicity – Category 2  
Carc. 1B: Carcinogenicity – Category 1B  
Repr. 1B: Reproductive toxicity – Category 1B  
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

Sources: source ECHA: European Chemicals Agency, <http://echa.europa.eu/>

## 16.2 Date of the latest revision of the SDS

Revision Date: 26/02/2026  
Revision: V3  
Next Review Date: 26/02/2029