

1. IDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY

1.1 Product Name:	Matchmate NP10				
Product Code:	382				
Application:	The production of crowns, bridges and dentures in dentistry. Production of metal frameworks for veneering with bonding porcelain				
1.2 Relevant identified uses of the substance or mixture; Product Form:		•	nuous casting; or ring geometries	other casting pr	ocess
1.3 Company:	Davis Schottlander & Davis Ltd Fifth Avenue, Letchworth Garden City Herts SG6 2WD UK Tel: +44 (0)1462 480848 Fax: +44 (0)1462 482802 msds@schottlander.co.uk www.schottlander.com				
Revision Date:	19.08.21	V2.0	Previous Revision	21.07.2015	V1.0

2. HAZARD IDENTIFICATION

2.1 Hazard designation:	Not applicable – see section 2.2
Information pertaining to	
particular dangers for man and	
environment:	Due to the calculation procedure of the "General rating principles for the preparation of the EG" in the ultimate version the product is not subject to marking.
User:	Skilled personnel (Dental technicians, dentists)
Classification system:	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.
2.2 Hazard warning:	The following marking shall not apply to the alloy but only for the processing and treatment may be incurred Vapors, fumes and dusts.
DANGER	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
DANGER	H317 - May cause an allergic skin reaction.
	H413 - May cause long lasting harmful effects to aquatic life. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
2.3 Other hazards in the	P260 - Do not breathe dust/fume/gas/mist/vapours/spray.



supply and processing of the alloy:	Inhalation of grinding dust, irritation of the skin and eyes.
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3. COMPOSITION / INFORMATION ON INGREDIENTS

The information as to risk and precautions given in the chapters 4 to 8, 10 to 12 do not onlyapply to the product itself, rather to the resulting dust and vapours generated on working with it.

3.1 Chemical composition:

Co-Cr-Alloy		Chemical characterization:
Cobalt Co	Rest 50 – 70 %	CAS: 7440-48-4 EINECS: 231-158-0
Chrome Cr	19 – 30 %	CAS: 7440-47-3 EINECS: 231-157-5
Silicon Si	0 – 2 %	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.
0	Rinse out the mouth and drink water afterwards. In case of continuous disorders, a doctor should be consulted
After skin contact:	Wash with water and soap
After eye contact:	Rinse eyes under running water and consult a doctor
	In case of the abovementioned complaints contact Internist or ophthalmologist; 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	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.
· · ·	Only use the specified under 5.1 Extinguishing media. Avoid inhalation of fumes!

6. ACCIDENTAL RELEASE MEASURES

6.1 Person-related safety precautions: Protective equipment and to be used in emergencies procedure:	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:	Dry grinding dust by mechanical means or suckers record and disposal in appropriate containers fill, dust generation. Not use compressed air blow not.
6.4 Reference to other sections:	see section 4

7. HANDLING AND STORAGE

	Arrange good ventilation / exhaustion 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,	Only in the original container. The delivery units must be secured against sliding, tilting, rolling and falling.
Common storage notes:	not required
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	VCI 13
according to Ordinal on Industrial	
Safety and Health:	Deleted
7.3 Specific end uses:	Guarantee batch traceability.



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 To be monitored parameter: Particulate r

Particulate matter limits by TRGS 900

8.2 Limiting and monitoring

exposure:

Particulate matter MAK 6 mg/m³

1317-35-7 Manganese oxide

MAK 1 mg/m³

7440-48-4 Cobalt (2, 3,25; TRGS 901-12)

MAK 0,1 E mg/m³ 7440-47-3 Chrome

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

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Penetration time of glove material:

The exact penetration time for the protective gloves and has to be observed.

Eye protection:

Goggles (DIN EN 175, DIN 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 PROPERTIES

9.1 Information on basic physical and chemical properties: Tensile strength: ~ 400 - 900 MPa Hardness: ~ 270 - 450 HV 10 Elongation: > 2 - 16% Young's modul: ~ 150 - 240 GPa density: $^{\sim}$ 8,2 – 8,7 g/cm³ Coefficient of thermal expansion: ~ 14 - 16 (x10-6K1) Melting point: ~ 1250 - 1420°C Danger of explosion: Product is not explosive ph: not applicable 9.2 Other information: 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
No hazardous decomposition products



11. TOXICOLOGY INFORMATION

11.1 Information on toxicological The product does not trigger toxic reactions and is not allergenic.
effects: 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

12.1 Acute toxicity: Results of animal experiments are not known

12.2 Persistence and not applicable

degradability:

12.3 Bioaccumulative not known

potential:

12.4 Mobility in soil: not applicable 12.5 Results of PBT and vPvB not known

12.5 Results of PBT and vPvB

assessment:

12.6 Other adverse effects: 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 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

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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

classes:

Dental alloys are not a dangerous good under transport regulations:

- Ground transport ADR/RID und GGVS/GGVE (cross-

border/domestic)

Maritime transport IMDG/GGV sea

- Air transport ICAO-TI und IATA-DGR

14.4 Packing Group:

14.5 Environmental hazards:

not applicable 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 mixture:

Designation according to EC guidelines:

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:

Inapplicable

15.2 chemical safety

assessment:

Not applicable

16. FURTHER INFORMATION

The data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Schottlander 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 Schottlander to 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 manner and can therefore be considered a misuse of responsibility.

H334		May cause allergy or asthma symptoms or cause
11354		breathing difficulties.
H317		May cause an allergic skin reaction.
		May be harmful to aquatic life with long lasting effects.
		Wear protective gloves/clothes/ eye cover/ facemask
		Do not inhale dust
	11	If symptoms of the air passages should occur, please
		contact toxic information center or doctor
P304+P3	41	Please get fresh air or get into position which makes
		breathing easier inhaling
P333+P3	13	Consult doctor after rash
P302+P3	52 I	F ON SKIN: Wash with soap and water.
ADR:	Acc	ord européen sur le transport des marchandises
	dan	gereuses par route
CAS:	Che	emical Abstracts Service (division of the American
	Che	emical Society)
CLP:	Clas	ssification Labelling Packaging
EINECS:	Eur	opean Inventory of Existing Commercial Chemical
		stances
GHS:		bally Harmonized System
		ard statement (Gefährdungen)
		ernational Air Transport Association
IATA-DG		ngerous Goods Regulations by the "International Air
		nsport Association" (IATA)
		ernational Civil Aviation Organization
ICAO-TI:		nical Instructions by the "International Civil Aviation
	Organization" (ICAO)	
		ernational Maritime Code for Dangerous Goods
		hal concentration, 50 percent
		hal dose, 50 percent
		cautionary statement (Vorsichtsmaßnahmen)
		vider Backbone Transport
KID:		lement international concernant le transport des
		rchandises dangereuses par chemin de fer (Regulations
		ncerning the International Transport of Dangerous Goods
		y persistent very bioaccumulating
	P304+P3 P333+P3 P302+P3 ADR: CAS: CLP: EINECS: GHS: H-Satz: IATA: IATA-DG	H317 H413 P280 P260 P342+P311 P304+P341 P333+P313 P302+P352 I ADR: Acc dan CAS: Che CLP: Clas EINECS: Eur Sub GHS: Glo H-Satz: Haz IATA: Inte IATA-DGR: Da Tra ICAO: Inte ICAO-TI: Tech Org IMDG: Inte LC50: Leti LD50: Leti P-Satz: Pre PBT: Pro RID: Règ mai Cor by I