

1. IDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY

Product Name: Matchmate NP10
 Product Code: 382

Application: Production of metal frameworks for veneering with bonding porcelain

Company: Davis Schottlander & Davis Ltd
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2. HAZARD IDENTIFICATION

Classification: Not applicable. The classification is in line with the current EC lists. It is expanded by information furnished from supplier companies.

Supplementary Hazard Warnings: Applicable when casting or grinding.



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.

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

P260 Do not breathe dust/fumes/gas/mist/vapours/spray.

Other hazards during treatment and processing of the alloy:

Inhalation of grinding dust, irritation of the skin and eyes.

3. COMPOSITION / INFORMATION ON INGREDIENTS

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

Chemical composition: Nickel chromium alloy

Co-Cr-Alloy		Chemical characterisation
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

Eyes: Flush with large volumes of water for at least 20 minutes. If symptoms persist seek medical advice.

SAFETY DATA SHEET

Skin: Wash with soap and water.
Ingestion: Rinse mouth and give water to drink. If symptoms persist seek medical advice.
Inhalation: Remove the person to fresh air. If symptoms persist seek medical advice.

5. FIRE FIGHTING MEASURES

Suitable extinguishing aids:

Use fire fighting measures that suit the environment – ABC dry powder, foam or sand. Do not use water.

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

Metal vapours 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.

Protective equipment:

Avoid inhalation of fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal: Ensure adequate ventilation. See also Section 8.
Environmental: Do not allow liquid alloy or grindings to enter drainage or sewerage systems.
Cleaning: Scrape up. Collect in a suitable container for disposal in accordance with local regulations. Do not use air jets to disperse.

7. HANDLING AND STORAGE

Handling: Use in a well ventilated area.
Storage: Store in a cool place. Keep away from strong acids and oxidising agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protection:

Ensure adequate ventilation, preferably with extraction, especially in confined areas. Avoid breathing vapour and dust from grinding. Wear safety glasses and breathing mask with filter FFP2. Avoid hot spitting metal. Keep away from food and drink. Wash hands after handling the product. Wear gloves. Suitable materials are Butyl rubber, Fluorocarbon rubber (Viton), Nitrile, Natural rubber (latex), Chloroprene rubber, Neoprene gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Silver pellets	Odour:	Odourless
Boiling point °C:	Not applicable	Melting point °C:	1250-1420
Flash point °C:	Not applicable	pH:	
Explosive properties:	Not explosive	Oxidising properties:	
Water solubility:	Insoluble	Density:	8.3g/cm ³

10. STABILITY AND REACTIVITY

No decomposition if used according to directions. No dangerous reactions known.

11. TOXICOLOGY INFORMATION

Acute toxicity: Not determined.
Toxicological test: LD₅₀/LC₅₀ not determined.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General ED Classification Guidelines for Preparations as issued in the latest version. Dust is occurring while grinding. The composition of the dust depends on the chemical analysis of the alloy. Essential oxide is released from silicon, molybdenum, tungsten and cobalt. Manganese compound can also occur. Do not inhale grinding dust.

12. ECOLOGICAL INFORMATION

Keep out of drains and water supplies.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

Recommendation: Contact waste material market (alloy) regarding recycling. European waste catalogue: 06 03 15 metallic oxides containing heavy metals (waste which occurs while grinding).

Uncleaned packaging recommendation:

Packaging that cannot be cleaned is to be disposed of in the same manner as the product.

14. TRANSPORT INFORMATION

Unrestricted.

15. REGULATORY INFORMATION

Designation according to EC guidelines:

Observe the normal safety regulations when handling chemicals. The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous materials (GefStoffV).

16. FURTHER INFORMATION

The data given above covers exclusively the safety requirements of the product(s) and is based on our current knowledge and experience. It does not signify any warranty with regards to the products properties. This product is only supplied for specific uses in dentistry and must be used in accordance with the directions for use.