

1. IDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY

Product Name: Matchmate NP20
 Product Code: 394

Application: Production of metal frameworks for veneering with bonding porcelain

Company: Davis Schottlander & Davis Ltd
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Date: 21.07.2015 V1.0

2. HAZARD IDENTIFICATION

Classification: Not applicable.
Supplementary Hazard Warnings: Applicable when casting or grinding.



H351 Suspected of causing cancer.
 H317 May cause an allergic skin reaction.

Pursuant to the 1st ATP of the CLP regulation (EC) 1272/2008, Nickel is also classified in category 3.9/1. However this only applies to Nickel in inhalable form. According to Annex 1, Chapter 1.3.4 of the CLP Regulation (EC) 1272/2008, Nickel being a compact metal is not classified in category 3.9/1.

Other hazards during treatment and processing of the alloy:

Additional information: For vapour, fume and dust created during the processing the following also applies:

H372 Causes damage to organs through prolonged or repeated exposure.
 H412 Toxic to aquatic life with long lasting effects.

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

Nickel Ni	Rest 20 – 70%	CAS: 7440-02-0 EINECS: 231-111-4
Chromium Cr	17 – 28%	CAS: 7440-47-3 EINECS: 231-157-5
Molybdenum Mo	4 – 14%	CAS: 7439-98-7 EINECS: 231-107-2
Silicon Si	0 – 3%	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.
- Skin:** Wash with soap and water. In case of individual being sensitised to nickel or other constituents remove appliance from the mouth.
- 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

Extinguishing agents:

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

Special hazards emitted by the substance or composite:

Metal vapours and metal oxides in the form of smoke and gas.

Advice for fire fighters:

Only use the extinguishing agents specified under Section 5. 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 drains
- 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, Fluorinated rubber (Viton), Nitrile-butadiene rubber, Natural rubber (latex), Chloro[rene rubber, gloves made of Neoprene.

Control parameter:

Particulate matter threshold in accordance with Technical Rule for Hazardous Substances 900.

Exposure controls:

7440 – 02 – 0 Nickel

MAK 0.5 mg/m³

7440 – 47 – 3 Chromium

MAK 0.5 E mg/m³

AGW 2 E mg/m³ (1 (I); 10, EU)

IOELV (EU) 2 mg/m³ as Cr

Please observe the general particulate matter threshold limits according to Technical Rule for Hazardous Substances 900.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Silver pellets	Odour:	Odourless
Boiling point °C:	Not applicable	Melting point °C:	1310-1400
Flash point °C:	Not applicable	pH:	
Explosive properties:	Not explosive	Oxidising properties:	
Water solubility:	Insoluble	Density:	8g/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); 18 01 06 chemicals consisting of or containing dangerous substances.

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.