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Dental waxes

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

- 1.1 Product identifier**
Tradename: Wax profiles, Wax wire, Perawax, Perawax NEM, TEK-1 WAX, Deiberit, MarmoScan-Wax
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Relevant identified uses: to be used in dental labs exclusively
- 1.3 Details of the supplier of the safety data sheet**
Manufacturer/Supplier: ERNST HINRICHS Dental GmbH
Street / mailbox: Borsigstr. 1
Country code. / postal code / city: D - 38644 Goslar
Phone: 0 53 21 / 5 06 24
Fax: 0 53 21 / 5 08 81
E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de
Further information obtainable from: ERNST HINRICHS Dental GmbH
- 1.4 Emergency telephone number**
ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 (Mon-Fri. 8 a.m. – 4 p.m.)

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture Regulation (EC) No. 1272/2008:** This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.
- 2.2 Label elements**
- 2.3 Other hazards:** No information available.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures**
Chemical characterization: Wax
Further Information: No information available.

SECTION 4: First aid measures

- 4.1 Description of first aid measures**
- Following inhalation:** Pure wax resp. wax not containing any kind of oil is showing almost no vapour pressure when fluid, for that an inhalative absorption of any toxicologically concerned component can be excluded.
- Following skin contact:** Contact with molten/fluid product may lead to burns. Cool down with cold water immediately, if necessary treat wound in a sterile manner, seek for medical advice. Any absorption of paraffin components by means of skin while the wax is solid cannot be expected.
- Following eye contact:** Rinse thoroughly with water, if necessary seek medical advice (when wax is hot/fluid)
- Following ingestion:** Rinse mouth – no further measures necessary.



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Waxes can be applied as components of pharmaceuticals or food for this reason the question of absorption in the digestive tract after accidental ingestion is irrelevant.

4.2 Most important symptoms and effects, both acute and delayed: None.

4.3 Indication of any immediate medical attention and special treatment needed: None.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable: Foam, dry powder, carbon dioxide (CO₂), water spray jet.

Unsuitable: Full water jet

5.2 Special hazards arising from the substance or mixture: In case of fire fumes are possible: carbon monoxide (CO).

5.3 Advice for fire-fighters: Respiratory protection independent of ambient environment – in case of fumes.

5.4 Additional indication:
Fire class: B: Liquid substances or substances becoming liquid.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protection equipment.

6.2 Environmental precautions: Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up: Take up mechanically. Avoid dust formation. Collect in closed and suitable containers for disposal.

6.4 Reference to other sections: See protective measures under point 7 and 8. Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Advice on safe handling: See section 8.

Advice on protection against fire and explosion: No special fire protection measures are necessary.

Further information on handling:

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels: Store in a cool dry place.
Keep/Store only in original container. Protect against direct sunlight.

Hints on joint storage: No special measures are necessary.

7.3 Specific end uses: No further relevant information available.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Substance: paraffin:	CAS-no. : 8002-74-2
Specification:	Does not contain any substances - according to the common EU lists – that have to be monitored at work places.
Limit value type (country of origin):	n.a.
Peak limitation:	n.a.
Toxic to reproduction:	n.a.
Source (TRGS):	n.a.
DNEL- and PNEC- values:	None.
Control-Banding (e.g. ILO, EMKG):	None.

8.2 Exposure controls:

Technical ventilation of workplace

Appropriate engineering controls:

Provide good ventilation.

Protective and hygiene measures:

Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing.
Wash hands before breaks and after work. Separate storage of work clothes.

Eye/face protection:

Suitable eye protection:
Eye glasses with side protection goggles

Hand protection:

No special measures are necessary.

Skin protection:

Protective clothing.

Respiratory protection:

Particle filter device (DIN EN 143)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state:	Solid, waxes in different shapes and colours
Colour:	various
Odour:	Characteristic, different according to type
pH-value:	Not available
Freezing point :	< 50°C
Melting point:	not determined
Initial boiling point/boiling range :	not applicable
Sublimation point:	not determined
Pour point:	not determined
Flash point:	> 130°C
Evaporation rate:	not applicable
Flammability:	The substance is flammable, but does not intensify fires.
Upper/lower explosive limits	none
Vapour pressure:	not applicable
Vapour density:	not applicable
Relative density:	ca. 0,93 g/cm ³
Solubility:	Not soluble in water
Partition coefficient n-octanol/water:	not applicable
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined



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Viscosity: not applicable
Explosive properties: none
Oxidising properties: none

9.2 Other information: No further information available.

SECTION 10: Stability and reactivity

10.1 Reactivity: No known unusual reactivity.
10.2 Chemical stability: Stable under regular conditions.
10.3 Possibility of hazardous reactions: No known hazardous reactions.
10.4 Conditions to avoid: Heat dissipation.
10.5 Incompatible materials: Not designated.
10.6 Hazardous decomposition products: Carbon monoxide, carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects When used appropriately no dangers to health are currently known

Acute toxicity: No information available on systemic effects.

Skin irritation: Based on available data, the classification criteria are not met.

Eye irritation: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract: Vapours have a very weak irritant effect.

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

Carcinogenicity: An extensive programme already realized in 1958 for clarifying the absence of carcinogenic properties in pure waxes was followed by the admission as food ingredient.

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

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Not applicable

SECTION 12: Ecological information

12.1 Toxicity: No information available



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- 12.2 Persistence and degradability:** No data available. As to consistency and non-solubility, a bioavailability is very unlikely.
- 12.3 Bioaccumulative potential:** Not significantly accumulative in living organisms.
- 12.4 Mobility in soil:** No information available
- 12.5 Results of PBT- and vPvB assessment:** The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
- 12.6 Other adverse effects:** Not hazardous to water - no further quantitative data on ecotoxic effects are available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods:** Contaminated packaging disposal
Recycle according to official regulations.
- Waste codes / waste designations according to EWC / AVV:** No waste codes applicable.
- Special precautions:** None.
- Other relevant provisions for waste treatment national or EC:** Dispose of waste according to applicable legislation.

SECTION 14: Transport information

- 14.1 UN-no.:** No dangerous good in sense of this transport regulation.
- 14.2 UN proper shipping name**
ADR/RID: No dangerous good in sense of this transport regulation.
IMDG-Code / ICAO-TI / IATA-DGR: No dangerous good in sense of this transport regulation.
- 14.3 Transport hazard class(es) / hazard labels:** No dangerous good in sense of this transport regulation.
- 14.4 Packing group:** No dangerous good in sense of this transport regulation.
- 14.5 Environmental hazards**
Marine Pollutant: No
- 14.6 Special precautions for user:** No dangerous good in sense of this transport regulation.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
EU-regulations, e.g.: The product does NOT have to be labelled according to EC directives/GeStoffV.
- National regulations, e.g.:**
Water contaminating class (D): - - not water contaminating
- Other relevant regulations:** TRGS 500, TRGS 510

