



According to 1907/2006 (REACH)

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Dental waxes

1. Identification of the substance / Preparation and Company:

- 1.1 Product identifier
Tradename: Wax wire, HinriScan 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
Uses advised against: should not be used by untrained personnel
- 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 - 25 (Mon-Fri. 8 a.m. – 4 p.m.)

2. Hazards identification:

- 2.1 Classification of the substance or mixture: Classification according to regulation (EC) no. 1272/2008 (CLP)
This substance does not meet the criteria for classification according to regulation (EC) no. 1272/2008 (CLP).
- 2.2 Label Elements
Labelling according to regulation (EC) no. 1272/2008 (CLP/GHS)
Hazard pictograms: NONE
Signal word: NONE
Hazardous component(s) for labelling:
Hazard statements: NONE
Precautionary statements:
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P262: Do not get in eyes, on skin, or on clothing.
P370: In case of fire:
P378: Use foam, carbon dioxide, dry powder to extinguish.
Supplemental Hazard information (EU): NONE
- 2.3 Other Hazards: Results of PBT and vPvP assessment:
PBT not applicable
vPvP not applicable

3. Composition/information on ingredients:

- 3.1 Substances
Principal component of the substance:
Substance name: paraffin
Index-no.: void
EG-no.: 232-315-6
CAS-no.: 8002-74-2
Impurities, stabilizers: none
Substance name:
Index-no.:
EG-no.:
CAS-no.:
- 3.2 Mixtures: none
Description of the mixture:
EG-no.: CAS-no. : Index-Nno.: REACH-registration no.:



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Content ration: %
 Classification according to regulation (EC) none
 no. 1272/2008 (CLP):
 (Full text of H- and EUH-phrases: see SECTION 16)

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. 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
 Symptoms: none
 Effects: none
- 4.3 Indication of any immediate medical attention and special treatment needed
 Notes for the doctor: none
 Special treatment: none

5. Firefighting measures:

- 5.1 Extinguishing media
 Suitable: Foam, dry powder, carbon dioxide, water mist spray
 Unsuitable: 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.

6. Accidental release measures:

- 6.1 Personal precautions, protective equipment and emergency procedures
 For non-emergency personnel
 Protective equipment:
 Emergency procedures:
 Avoid contact with skin, eyes and clothes when substance is hot and fluid.
 For emergency responders
 Personal protective equipment: see section 5.3
 Avoid contact with skin, eyes and clothes when substance is hot and fluid.
- 6.2 Environmental precautions: No special precautions need to be taken.
- 6.3 Methods and material for containment and cleaning up: Let material solidify – clean up mechanically.
- 6.4 Reference to other sections: More information on disposal see section 13.



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7. Handling and storage:

- 7.1 Precautions for safe handling
- Fire preventions: No special precautions necessary. Regular preventive fire protection.
- Aerosol and dust generation preventions: Avoid generation of dust – work under fume hood.
- Environmental precautions: No special precautions necessary.
- Advice on general occupational hygiene: Observe general hygiene rules.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage conditions: Keep containers tightly closed and store cool, dry and well ventilated. Keep away from sun rays. Best at 5 – 30 °C. Store in original bundles. Room temperature see above.
- Requirements for storage rooms and vessels: 11 (TRGS 510) Materials to avoid: n.a.
- Storage class:
- 7.3 Specific end uses dental laboratories
- Sector specific guidelines:

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.
- 8.1.2 DNEL- and PNEC- values: none
- Substance: CAS-Nr. :
- Specification:
- Value:
- 8.1.3 Control-Banding (e.g. ILO, EMKG): none
- 8.2 Exposure controls:
- The type and extent of usage determine the choice of protective measures.
- Appropriate engineering controls: Provide good ventilation
- Personal protective equipment:
- Eye / face protection: Safety glasses – not necessary if used according to the intended purpose.
- Skin protection
- Hand protection
- in full contact: use appropriate safety gloves
- material: polychloroprene - CR (0,5 mm), nitrile rubber - NBR (0,35 mm)
- layer thickness (mm): see above
- penetration time (min.): 8 hours
- Splash contact: use appropriate safety gloves
- material: polychloroprene - CR (0,5 mm), nitrile rubber - NBR (0,35 mm)
- layer thickness (mm): see above
- penetration time (min.): 8 hours
- Body protection: Appropriate
- Respiratory protection: Not required under normal use.
- Thermal hazards: Not required under normal use.
- Environmental exposure controls: Do not allow to get into sewer system, surface or ground water.



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9. Physical and chemical properties:

9.1 Information on basic physical and chemical properties:

Physical state:	
Aggregate state:	Solid, waxes in different shapes and colours
colour :	various
Odour :	Characteristic, different according to type
Odour threshold :	No information available
pH-value:	n.a.
Freezing point :	< 50°C
Initial boiling point/boiling range :	n.a.
Flash point:	> 130°C
Evaporation rate :	n.a.
Flammability:	The substance is flammable, but does not intensify fires.
Upper/lower explosive limits	none
Vapour pressure :	n.a.
Vapour density:	n.a.
Relative density:	ca. 0,93 g/cm ³
Solubility:	Not soluble in water
Partition coefficient:	n.a.
n-octanol/water:	
Auto-ignition temperature:	n.a.
Decomposition temperature:	n.a.
Viscosity:	n.a.
explosive properties:	none
Oxidising properties:	none

9.2 Other information

Physical Explosives hazards: No further information available

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:	Not designated.
10.5 Incompatible materials:	Not designated.
10.6 Hazardous decomposition products:	Carbon monoxide, carbon dioxide.

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:	Danger of burns when handling hot and liquid waxes.
Eye irritation:	May harm when working with hot and liquid waxes.
Sensitisation to the respiratory tract / skin:	Vapours have a very weak irritant effect.
Germ cell mutagenicity:	No information available
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:	No information available
Specific target organ toxicity (single exposure):	none
Specific target organ toxicity (repeated exposure):	none
Aspiration hazard:	No information available
Symptoms related to the physical, chemical and toxicological characteristics:	
In case of ingestion:	may have a laxative effect
In case of skin contact:	may cause burns when wax hot and liquid



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In case of inhalation:	seems impossible
In case of eye contact:	seek for medical advice when eye contact with hot and liquid wax

12. Ecological information:

12.1 Toxicity:	No information available
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 data available.
12.5 Results of PBT- and vPvB assessment:	Not applicable.
12.6 Other adverse effects:	None

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	

14. Transport information:

14.1 UN-no.	Not applicable
14.2 UN proper shipping name ADR/RID: IMDG-Code / ICAO-TI / IATA-DGR:	The product is not defined under ADR/RID regulations. The product is not defined under IMDG regulations.
14.3 Transport hazard class(es) / hazard labels:	Not relevant.
14.4 Packing group:	Not relevant.
14.5 Environmental hazards Environmentally hazardous substance marking ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR:	<input type="checkbox"/> yes / XXX no
Marine Pollutant:	<input type="checkbox"/> yes / XXX no
14.6 Special precautions for user:	No additional information available.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Pollution category (X, Y or Z): Type of ship (1, 2 or 3):	Not applicable. Not applicable.

15. Regulatory information:

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU-regulations, e.g.:	
Directive /EC) no. 2037/2000 (substances that deplete the ozone layer):	not listed
Directive (EC) no. 850/2004 (persistent organic pollutants):	not listed
Directive (EC) no. 689/2008 (Import and export of dangerous chemicals):	not listed
Directive (EC) no. 648/2004 (Detergents Regulation):	not listed
National regulations, e.g.:	
Water hazard class (VwVwS):	not water pollutant / registration no. 268
Technical instructions on Air Quality Control (TA-Luft):	not applicable



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Other relevant regulations: TRGS 500, 510 (Germany): storage class: 11 (flammable solids)

15.2 Chemical safety assessment: For this product a chemical safety assessment was not carried out.

16. Other information:

Indication of changes: Regulation (EC) no. 1272/2008 (CLP, EU_GHS)
Section1: Emergency number, editorial revision

Abbreviations and acronyms: n.a. Not applicable

Key literature references and sources for data: Gestis Stoffdatenbank - <http://gestis.itrust.de/>
Authority for chemicals www.baua.de

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]: No classification

Relevant R-, H- and EUH-phrases (number and full text): None of the above stated phrases is relevant.
P-phrases stated in section 2.2

Training advice: Not applicable for qualified dental technicians.

Further information: none

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