

Dental waxes

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

1.1 Product identifier

Tradename:

All dental waxes including: CAD/CAM waxes, Set-up base plates, etc. 01-01ff, 01-3ff, 01-4ff, 01-5ff, 01-6ff, 01-7ff, 02-1ff, 02-2ff, 02-3ff, 02-4ff, 02-5ff, 06-1ff, ZH02-ff, 581-004-011

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:

al dente Dentalprodukte GmbH

Street / mailbox:

Borsigstr. 1

Country code. / postal code / city:

D - 38644 Goslar

Phone:

0 53 21 / 80031

Fax:

0 53 21 / 50881

E-mail / Website:

info@aldente.de / www.aldente.de

Further information obtainable from:

al dente Dentalprodukte GmbH

1.4 Emergency telephone number

al dente Dentalprodukte GmbH:

+49 (0) 53 21 / 80031 (Mo-Fr 8:00-16:00)

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:

Specification:

CAS-no. : 8002-74-2

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/cm³

Solubility:

Not soluble in water

Partition coefficient n-octanol/water:

not applicable

Auto-ignition temperature:

not determined

Decomposition temperature:

not determined

Viscosity:

not applicable

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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

12.2 Persistence and degradability: No data available. As to consistency and non-solubility, a bioavailability is very unlikely.

Abbreviations and acronyms

according to Regulation (EC) No 1907/2006

Date of revision: 15.09.2025

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Printing date: 15.09.2025

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:	Règlement international conernat le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
IATA-DGR:	Dangerous Goods Refulations by the "International Air Transport Association"
(IATA) ICAO:	International Civil Aviation Organization
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
CLP:	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
EC50:	Effectice concentration, 50 percent
DNEL:	Derived No Effect Level
PNEC:	Predicted No Effect Concentration
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)