




**Wax adhesive**


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

- 1.1 Product identifier  
 Tradename: Wax adhesive
- 1.2 Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.  
 Application of the substance / the mixture: Auxiliary for dental technology
- 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](mailto:info@aldente.de) / [www.aldente.de](http://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 (Mon-Fri. 8 a.m. – 4 p.m.)

**SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture  
 Classification according to Regulation (EC) No 1272/2008:  
 Flam. Liq. 2 H225 Highly flammable liquid and vapour.  
 Eye Irrit. 2 H319 Causes serious eye irritation.  
 STOT SE 3 H336 May cause drowsiness or dizziness.
- 2.2 Label elements  
 Labelling according to Regulation (EC) No 1272/2008: The product is classified and labelled according to the CLP regulation.  
 Hazard pictograms:
-   
 GHS02

  
 GHS07
- Signal word: Danger  
 Hazard-determining components of labelling: methyl acetate  
 n-butyl acetate
- Hazard statements:  
 H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.
- Precautionary statements:  
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
 No smoking.  
 P280 Wear eye protection / face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Additional information: Contains 2-(2-aminoethylamino)ethanol. May produce an allergic reaction.
- Labelling of packages where the contents do not exceed 125 ml  
 Hazard pictograms:
-   
 GHS02

  
 GHS07

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GHS02 GHS07

Signal word: Danger  
Hazard-determining components of labelling: methyl acetate  
n-butyl acetate  
Void

Hazard statements:

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients** \*

3.2 Chemical characterisation: Mixtures  
Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:		
CAS: 79-20-9 EINECS: 201-185-2 Index number: 607-021-00-X RTECS: AI 9100000	methyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-50%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 RTECS: AF 7350000	n-butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	10-25%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 603-002-00-5 RTECS: KQ 6300000 Reg.nr.: 01-2119457610-43-XXXX	ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-25%
CAS: 111-41-1 EINECS: 203-867-5 Index number: 603-194-00-0 RTECS: KJ 6300000	2-(2-aminoethylamino)ethanol Repr. 1B, H360Df; Skin Corr. 1B, H314; Skin Sens. 1, H317 Spezifische Konzentrationsgrenze: STOT SE 3; H335: C ≥ 5 %	≤2.5%

Additional information: For the wording of the listed hazardphrases refer to section 16.

**SECTION 4: First aid measures** \*

4.1 Description of first aid measures

General information: Take affected persons out into the fresh air.  
After inhalation: Supply fresh air; consult doctor in case of complaints.  
After skin contact: If skin irritation continues, consult a doctor.  
After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed: No further relevant information available.

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4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

**SECTION 5: Firefighting measures**

5.1 Extinguishing media  
Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2 Special hazards arising from the substance or mixture: No further relevant information available.

5.3 Advice for firefighters  
Protective equipment: No special measures required.

**SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures: Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.

6.4 Reference to other sections: See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

7.1 Precautions for safe handling  
Information about protection against explosions and fires: Keep receptacles tightly sealed.  
Fumes can combine with air to form an explosive mixture.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities  
Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in the original receptacle.  
Information about storage in one common storage facility: Not required.  
Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well-sealed receptacles.

7.3 Specific end use(s) No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

8.1 Control parameters  
Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:	
79-20-9 methyl acetate	
WEL	Short-term value: 770 mg/m <sup>3</sup> , 250 ppm Long-term value: 616 mg/m <sup>3</sup> , 200 ppm
123-86-4 n-butyl acetate	
WEL	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm Long-term value: 724 mg/m <sup>3</sup> , 150 ppm
64-17-5 ethanol	
WEL	Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm

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8.2 Additional information: The lists valid during the making were used as basis.

Exposure controls:

Personal protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.  
Rubber gloves.

For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:  
For the permanent contact gloves made of the following materials are suitable:  
As protection from splashes gloves made of the following materials are suitable:

Neoprene gloves

Nitrile rubber, NBR

Butyl rubber, BR

Eye protection:

Tightly sealed goggles.



**SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:

Fluid

Colour:

Transparent

Odour:

Ester-like

Odour threshold:

Not determined.

pH-value:

Not determined.

Change in condition

Melting point/freezing point

Undetermined.

Initial boiling point and boiling range:

57 °C

Flash point:

-13 °C

Flammability (solid, gas):

Not applicable.

Ignition temperature:

370 °C

Decomposition temperature:

Not determined.

Auto-ignition temperature:

Product is not self-igniting.

Explosive properties:

Product is not explosive. However, formation of explosive

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air/vapour mixtures are possible.

Explosion limits:	
Lower:	1.2 Vol %
Upper:	16 Vol %
Vapour pressure at 20 °C:	220 hPa
Density at 20 °C:	0.92 g/cm <sup>3</sup>
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	83.0 %
VOC (EC)	80 %
Solids content:	17.4 %

9.2 Other information No further relevant information available.

**SECTION 10: Stability and reactivity**

10.1 Reactivity	No further relevant information available.
10.2 Chemical stability	
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	No further relevant information available.
10.5 Incompatible materials:	No further relevant information available.
10.6 Hazardous decomposition products:	No dangerous decomposition products known.

**SECTION 11: Toxicological information**

11.1 Information on toxicological effects	
Acute toxicity:	Based on available data, the classification criteria are not met
Primary irritant effect:	
Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitisation:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT-single exposure:	May cause drowsiness or dizziness.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

12.1 Toxicity	
Aquatic toxicity:	No further relevant information available.
12.2 Persistence and degradability:	No further relevant information available.
12.3 Bioaccumulative potential:	No further relevant information available.
12.4 Mobility in soil:	No further relevant information available.
Additional ecological information:	
General notes:	Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
12.5 Results of PBT and vPvB assessment	

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PBT: Not applicable.  
vPvB: Not applicable.  
12.6 Other adverse effects: No further relevant information available.

**SECTION 13: Disposal considerations** \*

13.1 Waste treatment methods  
Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

European waste catalogue	
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances

Uncleaned packaging:  
Recommendation: Disposal must be made according to official regulations.

**SECTION 14: Transport information** \*

14.1 UN number  
ADR, IMDG, IATA: UN1993  
14.2 UN proper shipping name  
ADR: 1 9 9 3 FLA M M A B L E L I Q U I D, N. O. S.  
(METHYL ACETATE, ETHYL ACETATE)  
IMDG, IATA: FLAMMABLE LIQUID, N.O.S. (METHYL ACETATE, ETHYL ACETATE)

14.3 Transport hazard class(es)  
ADR, IMDG, IATA



Class: 3 Flammable liquids.  
Label: 3

14.4 Packing group  
ADR, IMDG, IATA: II

14.5 Environmental hazards  
Marine pollutant: No

14.6 Special precautions for user  
Warning: Flammable liquids.

Kemler Number: 33

EMS Number: F-E,S-E

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code  
Not applicable.

Transport/Additional information:  
ADR

Limited quantities (LQ): 1L

Excepted quantities (EQ): Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

Transport category: 2  
Tunnel restriction code: D/E

IMDG

Limited quantities (LQ): 1L

Excepted quantities (EQ): Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

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UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S.  
(METHYL ACETATE, ETHYL ACETATE), 3, II

**SECTION 15: Regulatory information** \*

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Labelling according to Regulation (EC) No 1272/2008:	GHS label elements
Directive 2012/18/EU	
Named dangerous substances - ANNEX I:	None of the ingredients is listed.
Seveso category:	P5c FLAMMABLE LIQUIDS
Qualifying quantity (tonnes) for the application of lower-tier requirements	5,000 t
Qualifying quantity (tonnes) for the application of upper-tier requirements	50,000 t
REGULATION (EC) No 1907/2006 ANNEX XVII:	Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

**SECTION 16: Other information** \*

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H360Df	May damage the unborn child. Suspected of damaging fertility.

Recommended restriction of use: Product only for professional use

Abbreviations and acronyms:

RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR:	Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO:	International Civil Aviation Organisation
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
VOC:	Volatile Organic Compounds (USA, EU)
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative
Flam. Liq. 2:	Flammable liquids – Category 2
Flam. Liq. 3:	Flammable liquids – Category 3
Skin Corr. 1B:	Skin corrosion/irritation – Category 1B
Eye Irrit. 2:	Serious eye damage/eye irritation – Category 2
Skin Sens. 1:	Skin sensitisation – Category 1

according 1907/2006/EG, Article 31  
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Repr. 1B:  
STOT SE 3:

Reproductive toxicity – Category 1B  
Specific target organ toxicity (single exposure) – Category 3  
\* Data compared to the previous version altered.