according 1907/2006/EG, Article 31

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Wax adhesive



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

**Product identifier** 

Tradename: Wax adhesive

1.2 Relevant identified uses of the substance or mixture and uses advised against

Life cycle stages: PW Widespread use by professional workers

Sector of Use: SU20 Health services

Technical function: **Tackifier** 

Application of the substance / the mixture: Auxiliary for dental technology

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: **ERNST HINRICHS Dental GmbH** 

Street / mailbox: Borsiastr. 1 D - 38644 Goslar Country code. / postal code / city: 0 53 21 / 5 06 24 Phone: Fax: 0 53 21 / 5 08 81

E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de

**ERNST HINRICHS Dental GmbH** Further information obtainable from:

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**

#### Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

Highly flammable liquid and vapour. Flam. Liq. 2 H225 Eve Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements

1272/2008:

Labelling according to Regulation (EC) No The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS02



Signal word: Danger

Hazard-determining components of methyl acetate labelling: 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.

Wear eye protection / face protection. P280

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if P305+P351+P338

present and easy to do. Continue rinsing.

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

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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.

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2.3 Other hazards

Results of PBT and vPvB assessment:

PBT: Not applicable. vPvB: Not applicable.

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

3.2 Mixtures

**Description:** Mixture of substances listed below with non-hazardous

additions.

| Dangerous components:   |   |        |
|---|---|--------|
| CAS: 79-20-9<br>EINECS: 201-185-2<br>Index number: 607-021-00-X<br>RTECS: AI 9100000<br>Reg.nr.: 01-2119459211-47-xxxx  | methyl acetate  Flam. Liq. 2, H225  Eye Irrit. 2, H319; STOT SE 3, H336   | 25-50% |
| CAS: 123-86-4<br>EINECS: 204-658-1<br>Index number: 607-025-00-1<br>RTECS: AF 7350000<br>Reg.nr.: 01-2119485493-29-xxxx | n-butyl acetate  Flam. Liq. 3, H226  STOT SE 3, H336 EUH066   | 25-50% |
| CAS: 64-17-5<br>EINECS: 200-578-6<br>Index number: 603-002-00-5<br>RTECS: KQ 6300000<br>Reg.nr.: 01-2119457610-43-XXXX  | ethanol Flam. Liq. 2, H225  | 10-25% |
| CAS: 111-41-1<br>EINECS: 203-867-5<br>Index number: 603-194-00-0<br>RTECS: KJ 6300000<br>Reg.nr.: 01-2119456894-24-XXXX | 2-(2-aminoethylamino)ethanol  Repr. 1B, H360Df  Skin Corr. 1B, H314  Skin Sens. 1, H317  Specific concentration limit: STOT SE 3; H335: C ≥ 5 % | ≤2.5%  |

**Additional information:** For the wording of the listed hazard phrases 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.

according 1907/2006/EG, Article 31

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After skin contact:

After eye contact:

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If skin irritation continues, consult a doctor.

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.

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: CO2, 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.

**5.2 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 Keep receptacles tightly sealed.

Information about protection against

explosions and fires:

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.

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Information about storage in one common Not required.

storage facility:

Further information about storage

conditions:

Keep container tightly sealed. Store in cool, dry conditions in

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well-sealed receptacles.

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

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

#### Control parameters

| Ingredients with limit values that require monitoring at the workplace: |  |  |
|---|--|--|
| 79-20-9 methyl acetate  |  |  |
| WEL   | Short-term value: 770 mg/m³, 250 ppm               |  |
|   | Long-term value: 616 mg/m³, 200 ppm                |  |
| 123-86-4 n-butyl acetate  |  |  |
| WEL   | Short-term value: 966 mg/m³, 200 ppm               |  |
|   | Long-term value: 724 mg/m³, 150 ppm                |  |
| 64-17-5 ethanol   |  |  |
| WEL   | Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm |  |

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

8.2 Exposure controls:

Appropriate engineering controls: No further data; see item 7.

Individual protection measures, such as 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. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. 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.

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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 Neoprene gloves

the following materials are suitable:

57 °C

Rubber gloves.

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR Butyl rubber, BR

Eye protection:

Tightly sealed goggles.

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#### **SECTION 9: Physical and chemical properties**

Information on basic physical and chemical properties

**General Information** 

Physical state: Fluid

Colour: Transparent Odour: Ester-like Odour threshold: Not determined. Melting point/freezing point: Undetermined.

Boiling point or initial boiling point and

boiling range:

Flammability: Not applicable.

Lower and upper explosion limit

Lower: 1.2 Vol % Upper: 16 Vol % -13 °C Flash point: 370 °C Ignition temperature:

**Decomposition temperature:** Not determined. pH: Not determined.

Viscosity

Kinematic viscosity: Not determined. **Dvnamic:** Not determined.

Solubility

water: Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log Not determined.

value):

Vapour pressure at 20 °C: 220 hPa

Density and/or relative density

Density at 20 °C: 0.92 g/cm<sup>3</sup> Relative density: Not determined. Vapour density: Not determined.

9.2 Other information

Appearance:

Form: Fluid

Important information on protection of health and environment, and on safety

Product is not selfigniting. Auto-ignition temperature:

Product is not explosive. However, formation of explosive **Explosive properties:** 

air/vapour mixtures are possible.

Solvent content:

according 1907/2006/EG, Article 31

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 Organic solvents:
 83.0 %

 VOC (EC):
 80 %

 Solids content:
 17.4 %

Change in condition

**Evaporation rate:** Not determined.

Information with regard to physical hazard classes
Explosives:
Flammable gases:
Void
Aerosols:
Void
Oxidising gases:
Void
Gases under pressure:
Void

Flammable liquids: Highly flammable liquid and vapour.

Flammable solids: Void
Self-reactive substances and mixtures: Void
Pyrophoric liquids: Void
Pyrophoric solids: Void
Self-heating substances and mixtures: Void
Substances and mixtures, which emit Void

flammable gases in contact with water:

Oxidising liquids:VoidOxidising solids:VoidOrganic peroxides:VoidCorrosive to metals:VoidDesensitised explosives:Void

**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 hazard classes as defined in Regulation (EC) No 1272/2008

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

Serious eye damage/irritation: Causes serious eye irritation.

**STOT-single exposure:** May cause drowsiness or dizziness.

11.2 Information on other hazards

**Endocrine disrupting properties:** None of the ingredients is listed.

**SECTION 12: Ecological information** 

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

**12.2 Persistence and degradability:**No further relevant information available.

according 1907/2006/EG, Article 31

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**12.3 Bioaccumulative potential:** No further relevant information available.

**12.4 Mobility in soil:**No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: vPvB: Not applicable. Not applicable.

**12.6 Endocrine disrupting properties:** For information on endocrine disrupting properties see section

11.

12.7 Other adverse effects:

Additional ecological information:

**General notes:** 

No further relevant information available.

Water hazard class 1 (German Regulation) (Self-assessment):

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slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach

ground water, water course or sewage system.

**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.

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:

IMDG, IATA:

1 9 9 3 FLA M M A B L E LI Q U I D, N. O. S. (METHYL ACETATE, ETHYL ACETATE) 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:

14.5 Environmental hazards

Marine pollutant: No

**14.6 Special precautions for user** Warning: Flammable liquids.

Kemler Number: 33

**EMS Number:** F-E,<u>S-E</u>

according 1907/2006/EG, Article 31

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14.7 Maritime transport in bulk according to

**IMO** instruments:

Not applicable.

**Transport/Additional information:** 

**ADR** 

Limited quantities (LQ): 1L

Code: E2 **Excepted quantities (EQ):** 

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

**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

**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

The product is classified and labelled according to the GB

CLP regulation.

Hazard pictograms:





GHS02

Signal word: Danger

Hazard-determining components of methyl acetate labelling: 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.

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

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.

Directive 2012/18/EU

Named dangerous substances - ANNEX I: None of the ingredients is listed.

Seveso category: P5c FLAMMABLE LIQUIDS

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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

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. EUH066 Repeated exposure may cause skin dryness or cracking.

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
Repr. 1B: Reproductive toxicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

\* Data compared to the previous version altered.