



according 1907/2006/EG, Article 31
Revision date / valid from 26.04.2019

Version: 6.1

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Wax adhesive thinner

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

- 1.1 Product identifier
 Tradename: Wax adhesive thinner
 Substance name: Hydrocarbons, C6, isoalkanes, <5% n-hexane
 EC no: 931-254-9
 REACH registration No: 01-2119484651-34-xxxx
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
 Relevant identified uses: Solvent thinner
 Uses advised against: At this moment we have not identified any uses advised against
- 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.)

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
 Classification according to Regulation (EC) No 1272/2008:

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Flammable liquids	Category 2	---	H225
Skin corrosion/irritation	Category 2	---	H315
Specific target organ toxicity - single exposure	Category 3	---	H336
Aspiration hazard	Category 1	---	H304
Long-term (chronic) aquatic hazard	Category 2	---	H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects

Human Health See section 11 for toxicological information.
 Physical and chemical hazards See section 9/10 for physicochemical information.
 Potential environmental effects See section 12 for environmental information.

- 2.2 Label elements
 Labelling according to Regulation (EC) No 1272/2008:

Hazard pictograms:



Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapour.
 H334 May be fatal if swallowed and enters airways
 H315 Causes skin irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:



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Prevention

- P240 Ground/bond container and receiving equipment.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing vapours.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, protective clothing, eye protection, face protection.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response

- P301 + P310 + P331 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Do NOT induce vomiting.

Storage

- P403 + P235: Store in a well-ventilated place. Keep cool.
- Hazardous components which must be listed on the label: Hydrocarbons, C6, isoalkanes, <5% n-hexane
- Regulation (EC) No 648/2004 on detergents

2.3 Other hazards: For Results of PBT and vPvB assessment see section 12.5.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical nature: Mixture of paraffinic and naphthenic hydrocarbons in the C5-C6 range.

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
		Hazard class / Hazard category	Hazard statements
Hydrocarbons, C6, isoalkanes, <5% n-hexane			
EC-No.: 931-254-9 Registration: 01-2119484651-34-xxxx	<= 100	Flam. Liq.2 Skin Irrit.2 STOT SE3 Asp. Tox.1 Aquatic Chronic2	H225 H315 H336 H304 H411
n-hexane			
Index-No.: 601-037-00-0 CAS-No.: 110-54-3 EC-No.: 203-777-6	< 5	Flam. Liq.2 Repr.2 STOT RE2 Asp. Tox.1 Skin Irrit.2 STOT SE3 Aquatic Chronic2	H225 H361f H373 H304 H315 H336 H411

Remarks n-Hexane is a part of the hydrocarbon mixture.
Benzene content < 0.1%

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information: Remove from exposure, lie down. Remove to fresh air. Take off all contaminated clothing immediately. Consult a physician.
- After inhalation: Remove to fresh air. Seek medical advice.
- After skin contact: Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.



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|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| After eye contact: | Consult a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. |
| After swallowing: | If swallowed, do not induce vomiting - seek medical advice. Rinse mouth. |
| 4.2 Most important symptoms and effects, both acute and delayed: | |
| Symptoms: | Aspiration may cause pulmonary oedema and pneumonitis. Nausea, Redness, Vertigo, Central nervous system depression, drowsiness. |
| Effects: | See Section 11 for more detailed information on health effects and symptoms. |
| 4.3 Indication of any immediate medical attention and special treatment needed: | |
| Treatment: | Treat symptomatically. No further information available. |

SECTION 5: Firefighting measures

- | | |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.1 Extinguishing media | |
| Suitable extinguishing agents: | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing agents: | High volume water jet. |
| 5.2 Special hazards arising from the substance or mixture | |
| Specific hazards during firefighting: | Vapours may form explosive mixtures with air. |
| 5.3 Advice for firefighters | |
| Special protective equipment for firefighters: | In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit) |
| Further advice: | Cool closed containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. |

SECTION 6: Accidental release measures

- | | |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.1 Personal precautions, protective equipment and emergency procedures: | |
| Personal precautions: | Use personal protective equipment. Keep people away from and upwind of spill/leak. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe gas/fumes/vapour/spray. Keep away from heat and sources of ignition. For personal protection see section 8. |
| 6.2 Environmental precautions: | Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained. Avoid subsoil penetration. |
| 6.3 Methods and material for containment and cleaning up: | Ensure adequate ventilation. This material and its container must be disposed of as hazardous waste. Soak up with inert absorbent material. |
| Further information: | Treat recovered material as described in the section "Disposal considerations". |
| 6.4 Reference to other sections: | For personal protection see section 8. |

SECTION 7: Handling and storage

- | | |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.1 Precautions for safe handling | |
| Advice on safe handling: | Keep tightly closed in a dry and cool place. Provide for appropriate exhaust ventilation and dust collection at machinery. Provide sufficient air exchange and/or exhaust in work rooms. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. |
| Hygiene measures: | Take off all contaminated clothing immediately. Avoid contact with the skin and the eyes. Do not breathe gas/fumes/vapour/spray. Keep away from food, drink and |



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	animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday.
7.2 Conditions for safe storage, including any incompatibilities	Keep in an area equipped with solvent resistant flooring. Keep away from heat and sources of ignition. Keep in a dry, cool and well-ventilated place. Suitable materials for containers: Stainless steel; carbon steel; polyethylene; Polypropylene; Teflon; polyester; Unsuitable materials for containers: natural rubber; butyl-rubber; ethylene propylene diene rubber; polystyrene
Requirements for storage areas and containers:	
Advice on protection against fire and explosion	Use only in an area containing explosion proof equipment. Use only explosion-proof equipment. Combustible Liquids; Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
Further information on storage conditions:	Keep container tightly closed. Keep away from heat. Store in cool place.
German storage class:	3 Flammable liquids
7.3 Specific end use(s)	
Specific use(s):	Solvent thinner

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Predicted No Effect Concentration (PNEC) Not applicable
Component: Hydrocarbons, C6, isoalkanes, <5% n-hexane
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)
 DNEL
 Workers, Long-term - systemic effects, Skin contact: 13964 mg/kg bw/day
 DNEL
 Workers, Long-term - systemic effects, Inhalation: 5306 mg/m3
 DNEL
 Consumers, Long-term - systemic effects, Skin contact: 1377 mg/kg bw/day
 DNEL
 Consumers, Long-term - systemic effects, Inhalation: 1131 mg/m3
 DNEL
 Consumers, Long-term - systemic effects, Ingestion: 1301 mg/kg bw/day

Component: n-hexane CAS-No. 110-54-3

Other Occupational Exposure Limit Values

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, Time Weighted Average (TWA):
 20 ppm, 72 mg/m3
 Indicative

Germany. TRGS 900, Occupational Exposure Limits (AGW), Exposure limit(s):
 50 ppm, 180 mg/m3, (8)
 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).

Biological Exposure Indices



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Germany. TRGS 903, BGW List (Biological Limit Values), Hexane-2,5-dione plus 4,5-Dihydroxy-2-hexanone (with hydrolysis), Urine
5 mg/l, Sampling time: End of shift.

**Component: Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
Other Occupational Exposure Limit Values**

Germany. TRGS 900, Occupational Exposure Limits (AGW), Short Term Exposure Limit (STEL):
1.200 mg/m³
Calculation according RCP-Method (TRGS 900).

Germany. TRGS 900, Occupational Exposure Limits (AGW), Time Weighted Average (TWA):
600 mg/m³
Calculation according RCP-Method (TRGS 900).

8.2 Exposure controls:

Appropriate engineering controls: Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice:

Use respirator with appropriate filter if vapours or aerosol are released. Recommended Filter type: AX

Hand protection

Advice:

Choose right chemical protection as: Nitrile rubber
Fluorinated rubber Protective gloves should be replaced at first signs of wear.

Eye protection

Advice:

Wear suitable gloves. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Protective gloves should be replaced at first signs of wear.

Material:

Break through time:

Glove thickness:

Eye protection

Advice:

Environmental exposure controls

General advice:

Nitrile rubber

>= 8 h

0,4 mm

Tightly fitting safety goggles

Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.
Local authorities should be advised if significant spillages cannot be contained.
Avoid subsoil penetration.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Form:

liquid

Colour:

colourless

Odour:

mild like paraffin

Odour threshold:

no data available

pH:

not applicable

Freezing point

no data available

Boiling point/Boiling range:

48 - 70 °C

Flash point:

ca. -33 - -27 °C



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Evaporation rate:	no data available
Flammability (solid, gas):	no data available.
Upper explosion limit:	ca. 7,4 %(V)
Lower explosion limit:	ca. 1 %(V)
Vapour pressure:	250 hPa (20 °C)
Relative vapour density:	> 1 (Air = 1.0)
Density:	0,66 - 0,67 g/cm3 (15 °C)
Water solubility:	negligible
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	> 230 °C
Thermal decomposition:	no data available
Viscosity, dynamic:	not determined
Viscosity, kinematic:	0,44 mm2/s (25 °C)
Explosivity:	Product is not explosive.
Oxidizing properties:	not oxidising
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	No information available.
10.2 Chemical stability:	No decomposition if stored and applied as directed. No further information available.
10.3 Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid:	Heat, flames and sparks.
Thermal decomposition:	no data available
10.5 Incompatible materials:	
Materials to avoid:	Strong oxidizing agents, Strong acids
10.6 Hazardous decomposition products:	Carbon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Data for the product

	Irritation
Skin:	Result: Causes skin irritation.
Eyes:	Result: Based on available data, the classification criteria are not met.
Sensitisation:	Result: No sensitizing effect known.

	CMR effects
	CMR Properties
Carcinogenicity:	It is not considered carcinogenic.
Mutagenicity:	It is not considered mutagenic.
Reproductive toxicity:	It is not considered toxic for reproduction.

	Specific Target Organ Toxicity
	Single exposure
Remark:	May cause drowsiness or dizziness.

	Repeated exposure
Remark:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

	Other toxic properties
Aspiration hazard:	May be fatal if swallowed and enters airways.

Further information



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Other relevant toxicity information: Handle in accordance with good industrial hygiene and safety practice.
Experience with human exposure: Inhalation of high vapour concentrations can cause CNS-depression and narcosis. Aspiration may cause pulmonary oedema and pneumonitis.

Component: Hydrocarbons, C6, isoalkanes, <5% n-hexane

Acute toxicity

Oral

LD50: > 5000 mg/kg (rat) (OECD Test Guideline 401)

Inhalation

LC50: > 20 mg/l (rat; 4 h; vapour) (OECD Test Guideline 403)

Dermal

LC50: > 3000 mg/kg (rat) (OECD Test Guideline 402)

SECTION 12: Ecological information

12.1 Toxicity

Component: Hydrocarbons, C6, isoalkanes, <5% n-hexane

Acute toxicity

Fish

LC50: > 1 mg/l (Oryzias latipes (Orange-red killifish); 48 h; Test substance: Data based on test results or data from a comparable product.)

Toxicity to daphnia and other aquatic invertebrates

LC50: 3,87 mg/l (Daphnia magna (Water flea); 48 h)
Data based on test results or data from a comparable product.

algae

ErL50: 55 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h)
Data based on test results or data from a comparable product.

NOELR: 30 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h)

Component: n-hexane CAS-No. 110-54-3

12.2 Persistence and degradability

Persistence and degradability

Biodegradability

Result: 98 % (Exposure Time: 28 d)(OECD Test Guideline 301F) Readily biodegradable. Information given is based on data obtained from similar substances

12.3 Bioaccumulative potential

Bioaccumulation

Result: no data available

2.4 Mobility in soil

Component: Hydrocarbons, C6, isoalkanes, <5% n-hexane

Mobility

Water: The product is insoluble and floats on water.

Air: The product evaporates readily.

Soil: Adsorption to solid soil phase is not expected.

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

Data for the product



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Additional ecological information

Result Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains.
Contaminated packaging:	Empty remaining contents. Risk of explosion. Do not burn, or use a cutting torch on, the empty drum. Empty containers should be taken to an approved waste handling site for recycling or disposal.
European Waste Catalogue Number:	No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

14.1 UN number	
ADR, IMDG, IATA:	UN 1208
14.2 UN proper shipping name	
ADR:	HEXANES
RID:	HEXANES
IMDG:	HEXANES
14.3 Transport hazard class(es)	
ADR-Class:	3
(Labels; Classification Code; Hazard identification No; Tunnel restriction code)	3; F1; 33; (D/E)
RID-Class:	3
(Labels; Classification Code; Hazard identification No):	3; F1; 33
IMDG-Class :	3
(Labels; EmS) :	3; F-E, S-D
14.4 Packing group	
ADR:	II
RID:	II
IMDG:	II
14.5 Environmental hazards	
Labelling according to ADR:	yes
Labelling according to RID:	yes
Labelling according to IMDG:	yes
Classification as environmentally hazardous according to 2.9.3 IMDG:	yes
Classified as "P" according to 2.10 IMDG:	no
14.6 Special precautions for user:	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	
IMDG:	Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
Data for the product	
WGK (DE):	WGK 2: obviously hazardous to water
Major Accident Hazard	Falls under the German StörfallV. E2* (*Allocation to the hazard category with the slightest qualifying quantity. Conditions for additional hazard categories are available.)
Legislation:	
Other regulations:	Occupational restrictions: Take note of Dir 92/85/EEC on the safety and



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health of pregnant workers at work and of Dir 94/33/EC on the protection of young people at work.

Component: Hydrocarbons, C6, isoalkanes, <5% n-hexane:

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC):

Point Nos.: , 3; Listed
Point Nos.: , 40; Listed

Notification status

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Regulatory List	Notification	Notification number
TSCA	YES	
DSL	YES	
PICCS (PH)	YES	
KECI (KR)	YES	
INV (CN)	YES	

Component: n-hexane CAS-No. 110-54-3

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC)

EU. Cosmetics Directive 76/768/EEC - Annex II

15.2 Chemical Safety Assessment:

Point Nos.: , 40; Listed
Reference number: 999; Listed
A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H225:	Highly flammable liquid and vapour.
H304:	May be fatal if swallowed and enters airways.
H315:	Causes skin irritation.
H336:	May cause drowsiness or dizziness.
H361f:	Suspected of damaging fertility.
H373:	May cause damage to organs through prolonged or repeated exposure.
H411:	Toxic to aquatic life with long lasting effects.

Abbreviations and Acronyms

BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level



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NOEC	no observed effect concentration
NOEL	no observed effect level
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
PBT	persistent, bioaccumulative and toxic
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
PNEC	predicted no-effect concentration
STOT	specific target organ toxicity
SVHC	substance of very high concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
vPvB	very persistent and very bioaccumulative

Further information

Key literature references and sources for data: Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification: The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

Hints for trainings: The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

Other information

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

|| Indicates updated section.