



according 1907/2006/EG, Article 31
 Date of issue: 14.05.2014
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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: Solvents-thinners
- 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:
 Flam. Liq. 2 H225 Highly flammable liquid and vapour.
 Skin Irrit. 2 H315 Causes skin irritation
 STOT SE 3 H336 May cause drowsiness or dizziness.
 Asp. Tox. 1 H304 May be fatal if swallowed and enters airways
 Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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



GHS02 GHS07 GHS08 GHS09
 Danger

Signal word:

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:

- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
 No smoking.
 P233: Keep container tightly closed.
 P280: Wear protective gloves, protective clothing, eye protection, face protection.
 P301 + P310: IF SWALLOWED: Immediately call POISON CENTER, doctor
 P331: Do NOT induce vomiting.
 P403 + P235: Store in a well-ventilated place. Keep cool.

- 2.3 Other hazards

Results of PBT and vPvB assessment:



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PBT: Not applicable.
 vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances
 Substance name: Hydrocarbons, C6, isoalkanes, <5% n-hexane
 EC no: 931-245-9
 REACH registration No: 01-2119484651-34

EG-No. 931-245-9	Hydrocarbons, C6, isoalkanes, <5% n-hexane (Benzene content < 0.1%)	≤ 100 %
	Flam. Liq. 2, H225, Skin Irrit. 2, H315, STOT SE 3, H336 Asp. Tox. 1, H304, Aquatic Chronic 2, H411	

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

3.2 Mixtures Not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures
 General information: Call a doctor if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.
 After inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
 After skin contact: Take off contaminated clothing; Wash with plenty of soap and water. If skin irritation continues, consult a doctor.
 After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
 After swallowing: Do NOT induce vomiting - Aspiration hazard. Rinse mouth. Drink plenty of water as a precaution.
 4.2 Most important symptoms and effects, both acute and delayed:
 Symptoms/injuries after inhalation: May cause drowsiness or dizziness.
 Symptoms/injuries after skin contact: Causes skin irritation.
 Symptoms/injuries after ingestion: May be fatal if swallowed and enters airways.
 4.3 Indication of any immediate medical attention and special treatment needed: Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media
 Suitable extinguishing agents: Water haze
 Foam
 Fire-extinguishing powder
 Carbon dioxide
 For safety reasons unsuitable extinguishing agents: Water with a full water jet.
 5.2 Special hazards arising from the substance or mixture: Combustible liquid. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Flash back possible over considerable distance. In case of fire hazardous decomposition products may be produced such as: Carbon oxides (CO, CO2).



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<p>5.3 Advice for firefighters Protective equipment: Additional information:</p>	<p>Do not inhale explosion gases or combustion gases. Wear self-contained breathing apparatus. Dispose of fire debris and contaminated firefighting water in accordance with official regulations. Collect contaminated firefighting water separately. It must not enter drains.</p>
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SECTION 6: Accidental release measures

<p>6.1 Personal precautions, protective equipment and emergency procedures:</p>	<p>Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. No open flames. No smoking. Avoid contact with skin and eyes. Do not breathe vapour. Use special care to avoid static electric charges. Use breathing protection against the effects of fumes or aerosol.</p>
<p>6.2 Environmental precautions:</p>	<p>Do not allow to enter drainage system, surface or ground water. Prevent material from reaching sewage system, holes and cellars. Inform respective authorities in case product reaches water or sewage system.</p>
<p>6.3 Methods and material for containment and cleaning up:</p>	<p>Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable containers.</p>
<p>6.4 Reference to other sections:</p>	<p>See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.</p>

SECTION 7: Handling and storage

<p>7.1 Precautions for safe handling</p>	<p>Ensure good ventilation/exhaustion at the workplace. Ensure that suitable extractors are available on processing machines. Take note of emission threshold. Avoid breathing vapours. Avoid contact with skin and eyes. Use only non-sparking tools. Keep away from sources of ignition. No open flames. No smoking. Take precautionary measures against static discharge. The vapours are denser than air and may travel along the ground. Keep container closed when not in use.</p>
<p>Hygiene measures:</p>	<p>Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash it before reuse.</p>
<p>7.2 Conditions for safe storage, including any incompatibilities</p>	<p>Store in cool, dry place in tightly closed containers. Keep container tightly closed. Keep dark and dry. Keep in an area equipped with solvent resistant flooring. Keep away from heat and sources of ignition. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.</p>
<p>Storage:</p>	<p>Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction. Keep away from food, drink and animal feedingstuffs</p>
<p>Prohibitions on mixed storage</p>	<p>Keep away from food, drink and animal feedingstuffs</p>
<p>Storage class:</p>	<p>3 (flammable liquid)</p>



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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with critical values that require monitoring at the workplace:	
EG-No. 931-245-9 Hydrocarbons, C6, isoalkanes, <5% n-hexane	
WEL	Long-term value: 1800 mg/m ³ (Hydrocarbon C5 - C6)
110-54-3 n-hexane	
WEL	Long-term value: 72 mg/m ³ , 20 ppm

DNEL:

No further relevant information available

PNEC:

No further relevant information available

8.2 Exposure controls:

General protective and hygienic measures: Provide adequate ventilation, if possible exhaust ventilation at machinery. If ventilation is not sufficient, use breathing apparatus protective equipment in order to comply with the occupational exposure limit.

Personal protective equipment:

Protection of hands:

Solvent resistant gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves:

Nitrile rubber, Fluorinated rubber. ≥0.4 mm

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.

Eye protection:

Tightly sealed safety glasses.

Breathing equipment:

In case of brief exposure or low pollution (exceeding of TLV) use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Recommended filter device for short term use:

Combination filter: A-P2

Body protection:

Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:	Colourless liquid.
Physical state:	Liquid.
Colour:	Colourless.
Odour:	Like petrol
Odour threshold:	Not determined.
pH:	Not determined.
Melting point/Freezing point	< -20 °C
Boiling point/Boiling range:	48 - 70 °C
Flash point:	< 0 °C
Flammability (solid, gas):	Highly flammable liquid and vapour.
Auto-ignition temperature:	> 200 °C
Decomposition temperature:	Not determined.
Oxidising properties	Not determined



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Explosive properties:	Product is not explosive. However, formation of explosive vapour/air mixtures is possible.
Explosive Limits:	
Lower:	1.0 Vol %
Upper:	7.4 Vol %
Vapour pressure at 20 °C:	250 hPa
Density:	0,65 – 0,69 g/cm ³ (15 °C) ³
Relative density:	Not determined.
Relative vapour density at 20 °C:	> 1.
Relative evaporation rate (butylacetate=1):	13
Solubility:	Not determined.
Partition coefficient (log Pow):	4
Viscosity:	
dynamic:	Not determined
kinematic:	< 20,5 mm ² /s (40°C)
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity	Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.
10.2 Chemical stability	Stable under use and storage conditions as recommended in section 7.
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
10.4 Conditions to avoid	Open flame. Overheating. Direct sunlight. Heat. Sparks.
10.5 Incompatible materials	Strong oxidizing agents
10.6 Hazardous decomposition products	Carbon oxides (CO, CO ₂)

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute toxicity:	Not classified Based on available data, the classification criteria are not met

LD/LC50 values that are relevant for classification:		
EG-No. 931-245-9 Hydrocarbons, C6, isoalkanes, <5% n-hexane		
oral	LD50	> 5000 mg/kg (rat) (OECD 401)
dermal	LD50	> 3000 mg/kg (rat) (OECD 402)
inhalativ (Vapour)	LD50	> 20 mg/l/4h (rat) (OECD 403)
110-54-3 n-hexane		
oral	LD50	5000 mg/kg (mouse)
dermal	LD50	> 2000 mg/kg (rabbit)
inhalativ	LD50	172 mg/l/4h (rat)

Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/irritation:	Not classified Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation:	Not classified Based on available data, the classification criteria are not met.



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Germ cell mutagenicity:	Not classified Based on available data, the classification criteria are not met.
Carcinogenicity:	Not classified Based on available data, the classification criteria are not met.
Reproductive toxicity:	Not classified Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure):	May cause drowsiness or dizziness
Specific target organ toxicity (repeated exposure):	Not classified Based on available data, the classification criteria are not met.
Aspiration hazard:	May be fatal if swallowed and enters airways
Potential adverse human health effects and symptoms:	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity
 Aquatic toxicity: Toxic for aquatic organisms. Toxic to aquatic life with long lasting effects.

EG-No. 931-245-9 Hydrocarbons, C6, isoalkanes, <5% n-hexane	
LC50 (fish)	> 1 mg/l (48 h, <i>Oryzias latipes</i>)
LC50 (daphnia)	3,87 mg/l (48 h, <i>Daphnia magna</i>)
EC50 (algae)	55 mg/l (72 h, <i>Pseudokirchneriella subcapitata</i>)
NOEL (algae)	30 mg/l (72 h, <i>Pseudokirchneriella subcapitata</i>)
110-54-3 n-hexane	
LC50 (fish)	4 mg/l (24 h, <i>Carassius auratus</i>)
LC50 (daphnia)	2,1 mg/l (48 h, <i>Daphnia magna</i>)

12.2 Persistence and degradability: The product is insoluble and floats on water. The product evaporates easily from water surface.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: The product evaporates readily. Adsorption to solid soil phase is not expected.

12.5 Results of PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects: Danger to drinking water if even small quantities leak into soil.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
 Recommendation: Dispose in a safe manner in accordance with local/national regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Handle empty containers with care because residual vapours are flammable. Do not burn, or use a cutting torch on, the empty drum.

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.



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SECTION 14: Transport information

14.1	UN number	
	ADR, IMDG, IATA:	UN 1208
14.2	UN proper shipping name	
	ADR:	HEXANES
	IMDG:	HEXANES
	IATA:	HEXANES S
14.3	Transport hazard class(es)	
	ADR, IMDG, IATA	
	Klasse:	3 Flammable liquids.
	Danger labels:	3
14.4	Packing group	
	ADR, IMDG, IATA:	II
14.5	Environmental hazards	Yes
	Marine pollutant:	Yes
	Special marking:	Symbol (fish and tree)
14.6	Special precautions for user	Warning: Flammable liquids.
	Kemler Number:	33
	EMS Number:	F-E,S-D
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
	Transport/Additional information:	
	ADR	
	Classification code	F1
	Limited quantities (LQ):	1L
	Excepted quantities (EQ):	Code: E2
	Transport category:	2
	Tunnel restriction code	D/E
	IMDG	
	Limited quantities (LQ):	1L
	Excepted quantities (EQ):	Code: E2
	UN "Model Regulation":	UN 1208 HEXANES, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	National regulations:	
	Other regulations, limitations and prohibitive regulations:	
15.2	Chemical safety assessment	A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

Relevant phrases

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.



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- H373: May cause damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.
- Abbreviations and acronyms:
- 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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Repr. 2: Reproductive toxicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Changes compared to earlier Versions:

Complete revision. Adjustments according to Regulation (EC) No. 2015/830