

Universal Adhesive

Revision date: 31.07.2023

Product code: 14200_Series

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1. Identification

Product identifier

Universal Adhesive

Further trade names

Universal Adhesive (14206)

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

Use of the substance/mixture

Adhesive for Kettenbach addition-curing impression material and relined impression materials.

Medical device for use in dentistry, observe instructions for use.

Details of the supplier of the safety data sheet

Company name:	Kettenbach GmbH & Co. KG	
Street:	Im Heerfeld 7	
Place:	D-35713 Eschenburg	
Telephone:	+ 49(0) 2774/705-0	Telefax: +49 (0)2774/705-66
e-mail:	info@kettenbach.com	
Internet:	www.kettenbach.com	
Responsible Department:	R&D	

Further Information

The product is intended for professional use.

2. Hazard identification

Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 2; H225

Eye Irrit. 2; H319

STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

The information in the safety data sheet applies only to the product described in connection with its intended use. The information is based on the current state of our knowledge. In particular, they serve to describe our product with regard to the hazards it presents and the safety precautions to be taken. They do not represent any assurance of product and quality properties. The information in this safety data sheet is not required according to Article 31 and Annex II of Regulation (EC) No 1907/2006. It serves to provide sufficient information on a voluntary basis to ensure safe use of the substance/mixture/our product.

Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

ethyl acetate

Signal word: Danger

Pictograms:



Hazard statements

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

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Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Special labelling of certain mixtures

- EUH066 Repeated exposure may cause skin dryness or cracking.

Other hazards

Formation of potentially explosive vapor/air mixtures is possible.

3. Composition/information on ingredients
Mixtures
Chemical characterization

Preparation based on silicone resin in organic solvents.

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
141-78-6	ethyl acetate			40-70 %
	205-500-4	607-022-00-5	01-2119475103-46	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			

Full text of H statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
141-78-6	205-500-4	ethyl acetate	40-70 %
	inhalation: Data lacking (gases); dermal: LD50 = >20000 mg/kg; oral: LD50 = 5620 mg/kg		

4. First-aid measures
Description of first aid measures
General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Most important symptoms and effects, whether acute or delayed

No known symptoms to date.

Indication of immediate medical attention and special treatment needed

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No data available

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Extinguishing powder
Foam
Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water

Special protective equipment and precautions for fire-fighters

Co-ordinate fire-fighting measures to the fire surroundings.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition.
Use personal protection equipment.

Environmental precautions

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Reference to other sections

No release of hazardous substances.
Personal protection equipment: see section 8

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Keep away from sources of ignition - No smoking.
Wear personal protection equipment (refer to section 8).

Advice on protection against fire and explosion

Take precautionary measures against static discharges.

Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes.
When using do not eat, drink, smoke, sniff.

Further information on handling

Keep locked up and out of reach of children.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and store in a cool place.
Store in the original container only.

Hints on joint storage

Keep away from food and drink.

Further information on storage conditions

Please pay attention to the information on the package!

Specific end use(s)

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Not applicable.

8. Exposure controls/Personal protection
Control parameters
Exposure controls
Individual protection measures, such as personal protective equipment
Eye/face protection

Safety glasses.

Hand protection

Disposable gloves

Suitable material: Butyl caoutchouc (butyl rubber)

Wash hands before breaks and after work.

Skin protection

Protective clothing.

Avoid contact with skin, eyes and clothes.

Take off contaminated clothing and wash it before reuse.

Respiratory protection

Respiratory protection is not required when used properly and under normal conditions.

Provide adequate ventilation.

Environmental exposure controls

Do not allow to enter into surface water or drains.

9. Physical and chemical properties
Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	red
Odour:	ester-like
Odour threshold:	No data available

Test method

Melting point/freezing point:	-84 °C °C	
Boiling point or initial boiling point and boiling range:	77 °C	
Flammability:	No data available	
Lower explosive limits:	2,1 vol. %	
Upper explosive limits:	11,5 vol. %	
Flash point:	-4 °C	DIN EN ISO 2719
Auto-ignition temperature:	No data available	
Decomposition temperature:	No data available	
pH-Value:	No data available	
Viscosity / kinematic:	No data available	
Water solubility:	No data available	
Solubility in other solvents		
No data available		
Dissolution rate:	No data available	
Partition coefficient n-octanol/water:	No data available	
Dispersion stability:	No data available	
Vapour pressure:	No data available	
Vapour pressure:	No data available	
Density:	No data available	
Relative density (at 20 °C):	>0,9	

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Bulk density: not applicable
 Relative vapour density: No data available
 Particle characteristics: not applicable

Other information
Information with regard to physical hazard classes

Explosive properties
 Formation of potentially explosive vapor/air mixtures is possible.
 Sustaining combustion: No data available
 Self-ignition temperature
 Solid: not applicable
 Gas: not applicable
 Oxidizing properties
 not applicable

10. Stability and reactivity
Reactivity

Vapours can form explosive mixtures with air.

Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions

None by intended use.

Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Incompatible materials

None by intended use.
 Oxidizing agent

Hazardous decomposition products

Formaldehyde

Further information

Heating may cause a fire.

11. Toxicological information
Information on toxicological effects
Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Route of exposure	Dose	Species	Source	Method
141-78-6	ethyl acetate				
	oral	LD50 5620 mg/kg	Rat		
	dermal	LD50 >20000 mg/kg	Rabbit		
	inhalation	Data lacking			

Irritation and corrosivity

Causes serious eye irritation.
 Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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Sensitizing effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (ethyl acetate)

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

Based on available data, the classification criteria are not met.

12. Ecological information
Ecotoxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
141-78-6	ethyl acetate					
	Acute fish toxicity	LC50	230 mg/l	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50	>100 mg/l	72 h	Desmodesmus subspicatus	

Persistence and degradability

The product has not been tested.

Bioaccumulative potential

The product has not been tested.

BCF

CAS No	Chemical name	BCF	Species	Source
141-78-6	ethyl acetate	30		

Mobility in soil

The product has not been tested.

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other adverse effects

None known.

13. Disposal considerations
Waste treatment methods
Disposal recommendations

Do not remove with domestic waste.

List of Wastes Code - residues/unused products

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing hazardous substances; hazardous waste

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List of Wastes Code - used product

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled.

14. Transport information
Land transport (ADR/RID)

UN number or ID number: UN 1866
United Nations proper shipping name: RESIN SOLUTION
Transport hazard class(es): 3
Packing group: II
Hazard label: 3



Classification Code: F1
Special Provisions: 640D
Limited quantity: 5 L
Excepted quantity: E2
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Inland waterways transport (ADN)

UN number or ID number: UN 1866
United Nations proper shipping name: Resin solution
name:
Transport hazard class(es): 3
Packing group: II
Hazard label: 3



Classification Code: F1
Special Provisions: 640D
Limited quantity: 5 L
Excepted quantity: E2

Marine transport (IMDG)

UN number or ID number: UN 1866
United Nations proper shipping name: RESIN SOLUTION
name:
Transport hazard class(es): 3
Packing group: II

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Hazard label:

3



Special Provisions:

-

Limited quantity:

5 L

Excepted quantity:

E2

EmS:

F-E, S-E

Air transport (ICAO-TI/IATA-DGR)
UN number or ID number:

UN 1866

United Nations proper shipping

RESIN SOLUTION

name:
Transport hazard class(es):

3

Packing group:

II

Hazard label:

3



Special Provisions:

A3

Limited quantity Passenger:

1 L

Passenger LQ:

Y341

Excepted quantity:

E2

IATA-packing instructions - Passenger:

353

IATA-max. quantity - Passenger:

5 L

IATA-packing instructions - Cargo:

364

IATA-max. quantity - Cargo:

60 L

Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

No

Danger releasing substance:

not applicable

Special precautions for user

not applicable

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

15. Regulatory information
Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

National regulatory information

Water hazard class (D):

1 - slightly hazardous to water

Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

16. Other information
Changes

Date of preparation / Revised on: 31/07/2023

Version number: 1,01

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Replaces version number: 1,00 (01/06/2023)

Abbreviations and acronyms

ATE: Acute toxicity estimate. CAS: Chemical abstracts service. CFR: Code of Federal Regulations. DNEL: Derived No Effect Level EC50: 50% of maximal effective concentration. FDA: Food and Drug Administration. GHS: Globally Harmonised System. IATA: International air transport association. ICAO: Technical instructions for the safe transport of dangerous goods by air. I MDG: International maritime dangerous goods. LC50: Lethal concentration to 50 % of a test population. LD50: Lethal dose to 50% of a test population (median lethal dose). NOAEL: No Observed Adverse Effect Level. PBT: Persistent, bioaccumulative and toxic substance. PNEC: Predicted No Effect Concentration. STOT RE: Specific Target Organ Toxicity – Single Exposure. STOT SE: Specific Target Organ Toxicity – Repeated Exposure. US OSHA: US Occupational Safety and Health Administration. vPvB: Very persistent and very bioaccumulative.

Classification for mixtures and used evaluation method according to GHS

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method

Relevant H statements (number and full text)

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

Further Information

Training Advice: Use only by dental professionals.

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions.

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