

according to UK REACH Regulation

### **Universal Adhesive**

Revision date: 01.06.2023 Product code: 14206 Page 1 of 8

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

### 1.1. Product identifier

Universal Adhesive

# 1.2. 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 reline impression materials. For dental use

# 1.3. 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

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### **GB CLP Regulation**

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.

### 2.2. Label elements

### **GB CLP Regulation**

### 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.

### **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.



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P280 Wear protective gloves/protective clothing/eye protection/face protection.

### Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

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

### 3.2. 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 (GB CLP Regulation)			
141-78-6	ethyl acetate			40-70 %
	205-500-4	607-022-00-5		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			

Full text of H and EUH statements: see section 16.

### **SECTION 4: First aid measures**

### 4.1. 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.

# 4.2. Most important symptoms and effects, both acute and delayed

No known symptoms to date.

### 4.3. Indication of any immediate medical attention and special treatment needed

No data available

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

Extinguishing powder

Foam

Carbon dioxide (CO2)

### Unsuitable extinguishing media

Water



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### 5.2. Special hazards arising from the substance or mixture

Vapours may form explosive mixtures with air.

#### 5.3. Advice for firefighters

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

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Remove all sources of ignition.

Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

#### For containment

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

### 6.4. Reference to other sections

No release of hazardous substances.

Personal protection equipment: see section 8

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

### Advice on safe handling

Keep away from sources of ignition - No smoking.

### Advice on protection against fire and explosion

Take precautionary measures against static discharges.

### Further information on handling

No special measures are necessary.

### 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Behälter dicht geschlossen halten und an einem kühlen Ort aufbewahren.

Nur im Originalbehälter lagern.

### Further information on storage conditions

heat.

# 7.3. Specific end use(s)

Außer den in Abschnitt 1.2 genannten Verwendungen sind keine weiteren spezifischen Verwendungen vorgesehen.

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

### 8.1. Control parameters

### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
141-78-6	Ethyl acetate	200	734		TWA (8 h)	WEL
		400	1468		STEL (15 min)	WEL

#### 8.2. Exposure controls

Individual protection measures, such as personal protective equipment



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### Eye/face protection

Avoid contact with skin, eyes and clothes.

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and after work.

Protect skin by using skin protective cream.

#### Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Hand protection: Suitable material: Butyl caoutchouc (butyl rubber)

### Skin protection

Protective clothing.

# **Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

Provide adequate ventilation.

### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

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

### 9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: red
Odour: ester-like

**Test method** 

Melting point/freezing point:

Boiling point or initial boiling point and

77 °C

boiling range:

Flammability: No data available Lower explosion limits: 2,1 vol. % Upper explosion limits: 11,5 vol. %

Flash point: -4 °C DIN EN ISO 2719

Auto-ignition temperature:

Decomposition temperature:

No data available

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

No data available Dissolution rate: Partition coefficient n-octanol/water: No data available Dispersion stability: No data available No data available Vapour pressure: Vapour pressure: No data available Density: No data available Relative density (at 20 °C): >n a Bulk density: No data available No data available Relative vapour density: Particle characteristics: No data available

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

Formation of potentially explosive vapor/air mixtures is possible.





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Sustaining combustion: No data available

Self-ignition temperature

Solid: No data available
Gas: No data available

Oxidizing properties

No data available

### **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Vapours may form explosive mixtures with air.

#### 10.2. Chemical stability

This material is considered to be non-reactive under normal use conditions.

#### 10.3. Possibility of hazardous reactions

None by intended use.

### 10.4. Conditions to avoid

Heating may cause a fire or explosion.

### 10.5. Incompatible materials

None by intended use.

# 10.6. Hazardous decomposition products

In case of fire: Wear self-contained breathing apparatus.

### **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in GB CLP Regulation

#### **Acute toxicity**

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

### Irritation and corrosivity

Causes serious eye irritation.

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

### Sensitising 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.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

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

### 12.5. Results of PBT and vPvB assessment

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

#### 12.6. 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.



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### **SECTION 13: Disposal considerations**

### 13.1. 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

### List of Wastes Code - used product

200399 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND

INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; other

municipal wastes; municipal wastes not otherwise specified

#### Contaminated packaging

Non-contaminated packages may be recycled.

### **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1. UN number or ID number: UN 1866

14.2. UN proper shipping name: RESIN SOLUTION

14.3. Transport hazard class(es):314.4. Packing group:IIHazard 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)

14.1. UN number or ID number:UN 186614.2. UN proper shipping name:Resin solution

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



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

Marine transport (IMDG)

14.1. UN number or ID number: UN 1866

14.2. UN proper shipping name: RESIN SOLUTION



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#### 

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions:

Limited quantity:

Excepted quantity:

E2

EmS:

F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1866

14.2. UN proper shipping name: RESIN SOLUTION

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3

1 L

Y341

Excepted quantity:

E2

IATA-packing instructions - Passenger:353IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:364IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

# **SECTION 15: Regulatory information**

### 15.1. 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

# 15.2. Chemical safety assessment

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

# **SECTION 16: Other information**

# Classification for mixtures and used evaluation method according to GB CLP Regulation

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 and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.





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⊔210	Causas sariaus ava irritation	

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

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





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#### **VSXE One**

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

#### 1.1. Product identifier

**VSXE One** 

#### Further trade names

VSXE One

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

#### Use of the substance/mixture

Hydrophilic, medium viscosity, addition-curing, elastomeric precision impression material based on vinylsiloxane-ether® -base.

For dental use.

#### 1.3. 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

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### **GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

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.

### 2.2. Label elements

# Additional advice on labelling

There is no requirement for the product to be specially labelled according to EC directives or the corresponding national laws.

### 2.3. Other hazards

No risks worthy of mention.

Due to the physical form (paste), classification with H373 is not indicated. Inhalation is not possible.

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

### 3.2. Mixtures

### **Chemical characterization**

Preparation of polyether- and silicone polymers, fillers, colorants and surfactants with platinum- catalyst (ppm-range).



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### **Hazardous components**

CAS No	Chemical name	mical name			
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation)				
68855-54-9	Flux calcined diatomaceous earth	ıx calcined diatomaceous earth			
	272-489-0		01-2119488518-22		
	STOT RE 2; H373				
unbekannt	Polydimethylsiloxane with functional groups			1 - < 5 %	
	Aquatic Chronic 3; H412				
13463-67-7	titanium dioxide			< 1 %	
	236-675-5	022-006-00-2	01-2119489379-17		
	Carc. 2; H351				

Full text of H and EUH statements: see section 16.

### **SECTION 4: First aid measures**

### 4.1. 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

not applicable

#### After contact with skin

In general the product is not skin irritative.

### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

#### After ingestion

Seek medical attention if problems persist.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

Water mist

### 5.2. Special hazards arising from the substance or mixture

Not applicable.

# 5.3. Advice for firefighters

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

### **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

### General advice

Not required.

# 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up





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#### Other information

Allow stiffening. Take up mechanically.

#### 6.4. Reference to other sections

No release of hazardous substances.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

# Advice on safe handling

No special precautionary measures are necessary.

#### Advice on general occupational hygiene

The usual precautions when handling chemicals have to be obtained.

Avoid contact with skin, eyes and clothes.

### 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

No special requirements.

### Hints on joint storage

Not required.

### Further information on storage conditions

No special requirements.

### 7.3. Specific end use(s)

Not required.

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

### 8.1. Control parameters

### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL

# 8.2. Exposure controls

### Appropriate engineering controls

not applicable

# Individual protection measures, such as personal protective equipment

### Eye/face protection

Not required.

#### Hand protection

Single-use gloves.

Suitable material: PE (polyethylene).

Unsuitable material: NR (Natural rubber (Caoutchouc), Natural latex).

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### Skin protection

Not required.

### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.





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

#### 9.1. Information on basic physical and chemical properties

Physical state: Paste

Colour: Catalyst: grey-white. Base: violet.

Odour: odourless

Melting point/freezing point:

Boiling point or initial boiling point and

not applicable
not applicable

boiling range:

pH-Value: neutral Water solubility: insoluble Density (at 20 °C): ca. 1,3 g/cm³

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties not Explosive.

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

None by intended use.

### 10.2. Chemical stability

None by intended use.

### 10.3. Possibility of hazardous reactions

None by intended use.

### 10.4. Conditions to avoid

None by intended use.

### 10.5. Incompatible materials

None by intended use.

### 10.6. Hazardous decomposition products

None by intended use.

# **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in GB CLP Regulation

# **Acute toxicity**

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

Acute toxicity, oral LD50: > 2000 mg/kg Rat

#### Irritation and corrosivity

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

Irritant effect on the skin: non-irritant.

Irritant effect on the eye: non-irritant.

# Sensitising effects

Based on available data, the classification criteria are not met. no danger of sensitization.

# Carcinogenic/mutagenic/toxic effects for reproduction

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

#### STOT-single exposure

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



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### 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.

### 11.2. Information on other hazards

#### Other information

None by intended use.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

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

product has not been tested.

### 12.2. Persistence and degradability

product has not been tested.

### 12.3. Bioaccumulative potential

product has not been tested.

#### 12.4. Mobility in soil

product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

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

### 12.6. 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.

### **Further information**

Do not allow to enter into surface water or drains.

1 (slightly hazardous to water)

Doesn't get into the sewage water as long as the process is carried out according to regulations.

# **SECTION 13: Disposal considerations**

# 13.1. 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

### List of Wastes Code - contaminated packaging

200399 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND

INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; other

municipal wastes; municipal wastes not otherwise specified

# Contaminated packaging

Non-contaminated packages may be recycled.

# **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1. UN number or ID number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.



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14.4. Packing group:	No dangerous good in sense of this transport regulation.			
Inland waterways transport (ADN)				
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			
Marine transport (IMDG)				
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			
Air transport (ICAO-TI/IATA-DGR)				
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Other applicable information

No dangerous good in sense of these transport regulations.

### **SECTION 15: Regulatory information**

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

# EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

# National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

# 15.2. Chemical safety assessment

For this substance a chemical safety assessment is not required.

### **SECTION 16: Other information**

# Relevant H and EUH statements (number and full text)

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

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