



Safety Data Sheet

according to Regulation (EU) No. 1907/2006

Mucopren adhesive

Print date : 31.07.2009

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1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Mucopren adhesive

Use of the substance/preparation

Adhesive for Mucopren soft.

Company/undertaking identification

Company name : Kettenbach GmbH & Co. KG
Germany
Street : Im Heerfeld 7
Place : D-35713 Eschenburg
Telephone : + 49(0) 2774/705-0
Telefax : +49 (0)2774/705-33
Contact person : Quality Assurance Manager
e-mail : info@kettenbach.de
Internet : www.kettenbach.de
Inquiry office : Quality Assurance Manager

2. Hazards identification

Classification

Indications of danger : Highly flammable, Irritant
R-phrases :
Highly flammable.
Irritating to eyes.
May cause sensitization by skin contact.
Repeated exposure may cause skin dryness or cracking.
Vapours may cause drowsiness and dizziness.
Possible harmful effect(s) on the environment: No risks worthy of mention. Please observe the information on the safety data sheet at all times.

Explication of special hazards for human health and environment

Highly flammable.
Possible harmful effect(s) on human beings and possible symptom(s): Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Polymethyl methacrylate Copolymer in ethyl acetate.

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
205-500-4	141-78-6	ethyl acetate	ca. 90 %	F, Xi R11-36-66-67
201-297-1	80-62-6	methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate, methyl methacrylate	< 5 %	F, Xi R11-37/38-43

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures

After inhalation

Provide fresh air. Seek medical attention if problems persist.

After contact with skin



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After contact with skin, wash immediately with plenty of Water and soap. Change contaminated clothing.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Have victim drink large quantities of water, with active charcoal if possible. Do not induce vomiting. Consult physician. As a laxative affected person should drink sodium sulfate (1 tablespoon per 1 glass of water) with plenty of activated coal.

Advice to doctor

Caution if victim vomits: Risk of aspiration!

5. Fire-fighting measures

Suitable extinguishing media

Carbon dioxide (CO₂). Dry extinguishing powder. Foam.

Extinguishing media which must not be used for safety reasons

High power water jet.

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Combustible. Vapours are heavier than air and will spread at floor level. Formation of potentially explosive mixtures with: Air. In case of fire and/or explosion do not breathe fumes.

Special protective equipment for fire-fighters

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

Additional information

Take precautionary measures against static discharges.

6. Accidental release measures

Personal precautions

Provide fresh air. Remove all sources of ignition. Provide adequate ventilation.

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods for cleaning up/taking up

Wipe up with absorbent material (eg. cloth, fleece). Clean contaminated articles and floor according to the environmental legislation.

7. Handling and storage

Handling**Advice on safe handling**

Use only in well-ventilated areas. Keep away from sources of ignition - No smoking. Flammable vapors can accumulate in steam space of closed systems.

Advice on protection against fire and explosion

Take precautionary measures against static discharges. Vapours may form explosive mixtures with air.

Further information on handling

Provide fresh air.

Storage**Requirements for storage rooms and vessels**

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After use replace the closing cap immediately. Keep only in the original container. Keep container tightly closed in a cool, well-ventilated place.

Further information on storage conditions

Protect against: heat.

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

CAS-No.	Chemical name	ml/m³	mg/m³	F/ml	Category	Origin
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
		400	-		STEL (15 min)	WEL
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL

Exposure controls

Protective and hygiene measures

Change contaminated clothing.

Wash hands before breaks and at the end of work. Protect skin by using skin protective cream.

Respiratory protection

Respiratory protection required in case of: Exceeding critical value

Hand protection

Type of chemical protective gloves to choose depends on the concentration and quantity of dangerous substances as well as on work place specifications.

Eye protection

Framed glasses.

Skin protection

Wear suitable protective clothing.

9. Physical and chemical properties

General information

Physical state : liquid
 Colour : colourless
 Odour : characteristic

Important health, safety and environmental information

pH-Value :	not applicable	Test method
Changes in the physical state		
Boiling point :	< 77 °C	
Flash point :	ca. - 4 °C	DIN 51758
Lower explosion limits :	2,1 vol. %	
Upper explosion limits :	11,5 vol. %	
Vapour pressure :	97 hPa	
(at 20 °C)		
Density (at 20 °C) :	0,9 g/cm³	
Water solubility :	ca. 85 g/L	
(at 20 °C)		

Other information

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Ignition temperature :

460 °C DIN 51794

10. Stability and reactivity

Conditions to avoid

heat.

Materials to avoid

Alkali metals. Oxidizing agents.

Hazardous decomposition products

No data available

Additional information

Highly flammable. Vapours may form explosive mixtures with air.

11. Toxicological information

Acute toxicity

Acute toxicity, oral: LD50: > 5000 mg/kg Rat.

Corrosive and irritant effects

Irritant effect on the skin: Has de-greasing effect on the skin.

Irritant effect on the eye: irritant.

Sensitising effects

no danger of sensitization.

Further information

Harmful by inhalation and if swallowed.

Hazards identification: Nausea. Headache. Vapours may cause drowsiness and dizziness.

After skin contact: Has de-greasing effect on the skin.

Following eye contact: Irritant.

Harmful: may cause lung damage if swallowed. pneumonia.

12. Ecological information

Ecotoxicity

Toxic to aquatic organisms.

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

Bioaccumulative potential

No indication of bio-accumulation potential.

Further information

Do not allow uncontrolled leakage of product into the environment.

13. Disposal considerations

Advice on disposal

Waste disposal according to official state regulations.

Contaminated packaging

Cleaned containers may be recycled.

14. Transport information

Land transport (ADR/RID)

UN number : 1173

ADR/RID class : 3

Warning plate

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Hazard-no. : 33
Hazard label : 3
ADR/RID packing group : II

Description of the goods

ETHYL ACETATE, mixture

Inland waterways transport

UN number : 1173
ADNR class : 3

Description of the goods

ETHYL ACETATE, mixture

Marine transport

UN number : 1173
IMDG code : 3
IMDG packing group : II

Description of the goods

ETHYL ACETATE, mixture

Air transport

UN/ID number : 1173
ICAO/IATA-DGR : 3
Hazard label : 3
ICAO packing group : II
IATA-packing instructions - Passenger : 305
IATA-max. quantity - Passenger : 5
IATA-packing instructions - Cargo : 307
IATA-max. quantity - Cargo : 60

Description of the goods

ETHYL ACETATE, mixture

15. Regulatory information

Labelling

Danger symbols : F - Highly flammable; Xi - Irritant



F - Highly flammable

Xi - Irritant

Hazardous component(s) to be indicated on label

ethyl acetate

methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate, methyl methacrylate

R phrases

- 11 Highly flammable.
- 36 Irritating to eyes.
- 43 May cause sensitization by skin contact.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

S phrases

- 24 Avoid contact with skin.
- 37 Wear suitable gloves.

EU regulatory information



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Additional information

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

National regulatory information

Water contaminating class (D) : 3 - highly water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

- | | |
|-------|---|
| 11 | Highly flammable. |
| 36 | Irritating to eyes. |
| 37/38 | Irritating to respiratory system and skin. |
| 43 | May cause sensitization by skin contact. |
| 66 | Repeated exposure may cause skin dryness or cracking. |
| 67 | Vapours may cause drowsiness and dizziness. |

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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