



Safety Data Sheet

according to 2001/58/EC

Mucopren adhesive

Print date : 14.06.2006

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

1.1 Identification of the substance or preparation Mucopren adhesive

Use of the substance/preparation Adhesive for Mucopren soft.

1.2 Company/undertaking identification

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

2. Composition/information on ingredients

Chemical characterization Poly methyl 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.

Index No. : 607-022-00-5

3. Hazards identification

Classification

Symbols : 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.
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.

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4. First aid measures

After inhalation	Provide fresh air. Consult physician if problems persist.
After contact with skin	After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing.
After contact with eyes	After contact with eye rinse immediately with lot of water at least 5 minutes with open eyelid. 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 in 1 glas 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 (CO ₂). Dry extinguishing powder. Foam.
Extinguishing media which must not be used for safety reasons	High power water jet.
Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases	Combustible. Vapours are heavier than air and will travel 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 from 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

7.1 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. Fumes may form explosive mixtures with air.

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Further information on handling

Provide fresh air.

7.2 Storage

Requirements for storage rooms and vessels

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: heating.

8. Exposure controls/personal protection

8.1 Exposure limit values

Exposure limits (EH40)

CAS No.	Substance	ml/m ³	mg/m ³	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

8.2 Exposure controls

Protective and hygiene measures

Change contaminated clothing.
Wash hands when done working with material; at breaks, lunch, shift changes, etc. Protect skin by using skin protective cream.

Respiratory protection

breathing protection indicated: Exceeding critical value

Hand protection

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

Eye protection

Framed glasses.

Skin protection

Wear suitable protective clothing.

9. Physical and chemical properties

9.1 General information

Physical state : liquid
Colour : colourless
Odour : characteristic

9.2 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. %

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Vapour pressure : 97 hPa
at (20 °C)
Density (at 20 °C) : 0,9 g/cm³
Water solubility : ca. 85 g/L
at (20 °C)

9.3 Other information

Ignition temperature : 460 °C DIN 51794

10. Stability and reactivity

Conditions to avoid heating.

Materials to avoid Alkali metals. Oxidizing agents.

Hazardous decomposition products No data available

Additional information Highly flammable. Fumes 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.
Hazard identification: Nausea. Headache. Vapours may cause drowsiness and dizziness.
Following skin contact: Has de-greasing effect on the skin.
Following eye contact: Irritant.
Harmful: may cause lung damage if swallowed. @0407.B004310

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.

Additional information Do not allow uncontrolled leakage of product into the environment.

13. Disposal considerations

Advice on disposal Dispose of waste according to applicable local, state, and federal regulations.

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Contaminated packaging

Cleaned containers may be recycled.

14. Transport information

Land transport (ADR/RID)

ADR/RID class : 3
Warnings plate
Hazard-no. : 33
UN number : 1173
Hazard label : 3
ADR/RID packing group : II

Description of the goods

ETHYLACETAT

Inland waterways transport

ADN/ADNR class : 3
UN number : 1173

Description of the goods

ETHYLACETAT

Marine transport

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

Description of the goods

ETHYL ACETATE

Air transport

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

Description of the goods

ETHYL ACETATE

15. Regulatory information

15.1 Labelling

Indication of danger :

F - Highly flammable; Xi - Irritant



F - Highly flammable



Xi - Irritant

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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.

Additional information on EC regulations

The classification was undertaken in accordance with the method of calculation governed by the preparation regulations (1999/45/EC).

15.2 National regulations

Water contaminating class : 3 - highly water contaminating

16. Other information

List of relevant 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.
37/38	Irritating to respiratory system and skin.

Other data

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.)