

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Mucopren adhesive

Revision date: 22.05.2018

Product code: 001413

Page 1 of 8

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

### 1.1. Product identifier

Mucopren adhesive

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

#### Use of the substance/mixture

Adhesive for Mucopren soft.

### 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	
Contact person:	Regulatory Affairs Manager	Telephone: +49 (0)2774/705-0
Internet:	www.kettenbach.com	
Responsible Department:	Regulatory Affairs	

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause drowsiness or 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.

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

#### Hazard components for labelling

ethyl acetate

methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate

**Signal word:** Danger

**Pictograms:**



#### Hazard statements

H225 Highly flammable liquid and vapour.

H317 May cause an allergic skin reaction.

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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Mucopren adhesive

Revision date: 22.05.2018

Product code: 001413

Page 2 of 8

P261	smoking.
P280	Avoid breathing dust/fume/gas/mist/vapours/spray.
P302+P352	Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313	IF ON SKIN: Wash with plenty of water.
P362+P364	If skin irritation or rash occurs: Get medical advice/attention.
P370+P378	Take off contaminated clothing and wash it before reuse.
P403+P235	In case of fire: Use Carbon dioxide (CO <sub>2</sub> ). Dry extinguishing powder. Foam. to extinguish.
	Store in a well-ventilated place. Keep cool.

#### 2.3. Other hazards

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.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Polymethyl methacrylate Copolymer in ethyl acetate.

##### Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
141-78-6	ethyl acetate	ca. 90 %
	205-500-4	607-022-00-5
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate	< 5 %
	201-297-1	607-035-00-6
	Flam. Liq. 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1; H225 H335 H315 H317	

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### After inhalation

Provide fresh air. Seek medical attention 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

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. Give sodium sulfate as laxative (1 tablespoon in 1 glass of water) with plenty of activated coal.

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

Caution if victim vomits: Risk of aspiration!

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Mucopren adhesive

Revision date: 22.05.2018

Product code: 001413

Page 3 of 8

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Foam.

#### Unsuitable extinguishing media

High power water jet.

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

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

#### 5.3. Advice for firefighters

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

#### Additional information

Take precautionary measures against static discharges.

### SECTION 6: Accidental release measures

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

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

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

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

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Use only in well-ventilated areas. Keep away from sources of ignition - No smoking. Flammable vapours can accumulate in head 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.

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

##### 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: heat.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Mucopren adhesive

Revision date: 22.05.2018

Product code: 001413

Page 4 of 8

#### 8.2. Exposure controls

##### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

##### Protective and hygiene measures

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Additional information:

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously

##### Eye/face protection

Eye glasses with side protection DIN EN 166

##### Hand protection

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. Recommended glove articles DIN EN 374

By short-term hand contact Suitable material: NBR (Nitrile rubber).

Thickness of the glove material: 0,38mm

Breakthrough time (maximum wearing time): -

By long-term hand contact: PE (polyethylene)

Thickness of the glove material: -

Breakthrough time (maximum wearing time): >480 min

##### Skin protection

Wear suitable protective clothing.

##### Respiratory protection

Respiratory protection necessary at: aerosol or mist generation.

Suitable respiratory protection apparatus: Full-/half-/quarter-face masks (DIN EN 136/140)

Suitable material: A2, B2, E2, K2, P3

## SECTION 9: Physical and chemical properties

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

Physical state:	liquid
Colour:	colourless
Odour:	characteristic

pH-Value: not applicable

##### Changes in the physical state

Melting point: -83 °C

Initial boiling point and boiling range: < 77 °C

Flash point: ca. - 4 °C DIN 51758

**Flammability** ISO 10156

Lower explosion limits: 2,1 vol. %

Upper explosion limits: 11,5 vol. %

Ignition temperature: 460 °C

##### Auto-ignition temperature

Solid: 460 °C

Decomposition temperature: No data available

#### Test method

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Mucopren adhesive

Revision date: 22.05.2018

Product code: 001413

Page 5 of 8

Vapour pressure: (at 20 °C)	97 hPa
Density (at 20 °C):	0,9 g/cm <sup>3</sup>
Water solubility: (at 20 °C)	ca. 85 g/L
Viscosity / dynamic:	0,44 mPa·s
Viscosity / kinematic:	No data available
Vapour density: (at 20 °C)	3,04 g/cm <sup>3</sup>

#### 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.4. Conditions to avoid

heat.

#### 10.5. Incompatible materials

Alkali metals. Oxidizing agents.

#### 10.6. Hazardous decomposition products

No data available

#### **Further information**

Highly flammable. Vapours may form explosive mixtures with air.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### **Acute toxicity**

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

##### **ATEmix tested**

	Dose	Species	Source
LD50, oral	5000 mg/kg	Rat	
LD50, dermal	18000 mg/kg	Rabbit	
LC50, inhalative (vapour)	mg/l	not applicable	

##### **Irritation and corrosivity**

Skin corrosion/irritation: not applicable

##### **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.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Toxic to aquatic organisms.

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

#### 12.2. Persistence and degradability

No data available

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Mucopren adhesive

Revision date: 22.05.2018

Product code: 001413

Page 6 of 8

#### 12.3. Bioaccumulative potential

No indication of bio-accumulation potential.

#### **Further information**

Do not allow uncontrolled leakage of product into the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### **Advice on disposal**

Dispose of waste according to applicable legislation.

##### **Contaminated packaging**

Cleaned containers may be recycled.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number:** UN 1173  
**14.2. UN proper shipping name:** ETHYL ACETATE, mixture  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Classification code: F1  
Hazard No: 33

#### Inland waterways transport (ADN)

**14.1. UN number:** UN 1173  
**14.2. UN proper shipping name:** ETHYL ACETATE, mixture  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Classification code: F1

#### Marine transport (IMDG)

**14.1. UN number:** UN 1173  
**14.2. UN proper shipping name:** ETHYL ACETATE, mixture  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1173

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Mucopren adhesive

Revision date: 22.05.2018

Product code: 001413

Page 7 of 8

**14.2. UN proper shipping name:** ETHYL ACETATE, mixture  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



IATA-packing instructions - Passenger: 305  
 IATA-max. quantity - Passenger: 5  
 IATA-packing instructions - Cargo: 307  
 IATA-max. quantity - Cargo: 60

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

not relevant

### SECTION 15: Regulatory information

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

##### EU regulatory information

##### 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

### SECTION 16: Other information

#### Changes

Update 2018-05-17

#### Abbreviations and acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
 CLP - Globally Harmonized System  
 IATA - International Air Transport Association  
 ICAO - International Civil Aviation Organization  
 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

#### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H336	Calculation method

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

H225 Highly flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Mucopren adhesive

Revision date: 22.05.2018

Product code: 001413

Page 8 of 8

EUH066

Repeated exposure may cause skin dryness or cracking.

#### Further Information

@N16.P0000001

@N16.P0000002

---

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