

MATERIAL: EB Penloc 1:1R Part A

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- 1.1 Product Name:** EB Penloc 1:1R Part A
- 1.2 Identified Uses:** Industrial uses: Uses of substances as such or in preparations at industrial sites
Adhesives, sealants
Uses advised against: Consumer uses: Private households (= general public = consumers)
- 1.3 Supplier:** Techsil Ltd
34 Bidavon Industrial Estate
Waterloo Road
Bidford on Avon
Warwickshire
B50 4JN
Tel: +44(0)1789 773232
Fax: +44(0)1789 774239
Email: sales@techsil.co.uk
- 1.3 Emergency Telephone:** +44(0)7971 228794

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

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

Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317
Carc. 1B	H350
STOT SE 3	H335
Aquatic Chronic 3	H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16

2.2 Label Elements:

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.



Signal word

Danger

Hazard statements ***

H316	Causes skin irritation.
H318	Causes serious eye damage.
H337	May cause an allergic skin reaction.
H350	May cause cancer.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P261.9	Avoid breathing vapours/spray.
P273	Avoid release to the environment.

Contact Details

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P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

Contains:

Cumene Hydroperoxide; 2-Hydroxyethyl methacrylate; 2-Hydroxypropyl Methacrylate; 2-Ethylhexylmethacrylate; Isopropylbenzene

Further supplemental information ***

Restricted to professional users

2.3 Other Hazards:

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Hazardous ingredients

2-Hydroxyethyl methacrylate

CAS No. 868-77-9
EINECS no. 212-782-2
Registration no. 01-2119490169-29
Concentration >= 25 < 50 %

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

Eye Irrit. 2	H319
Skin Sens. 1	H317
Skin Irrit. 2	H315

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note D

2-Ethylhexylmethacrylate

CAS No. 688-84-6
EINECS no. 211-708-6
Registration no. 01-2119490166-35
Concentration >= 20 < 25 %

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H335

Concentration limits (Regulation (EC) No. 1272/2008)

STOT SE 3 H335 >= 10 %

2-Hydroxypropyl Methacrylate

CAS No. 923-26-2
EINECS no. 213-090-3
Concentration >= 10 < 25 %

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Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319
Skin Sens. 1	H317

Additional remarks:

DSD	Directive 67/548/EEC, Annex I, Note D
CLP	Regulation (EC) No 1272/2008, Annex VI, Note C, D

Cumene Hydroperoxide

CAS No.	80-15-9
EINECS no.	201-254-7
Concentration	>= 3 < 5 %

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

STOT RE 2	H373
Skin Corr. 1B	H314
Acute Tox. 4	H302
Acute Tox. 4	H312
Acute Tox. 3	H331
Org. Perox. E	H242
Aquatic Chronic 2	H411

Concentration limits (Regulation (EC) No. 1272/2008)

	Eye Dam. 1	H318	>= 3 < 10
	STOT SE 3	H335	>= 1 < 10
	Skin Corr. 1B	H314	>= 10
	Eye Irrit. 2	H319	>= 1 < 3
	Skin Irrit. 2	H315	>= 3 < 10
ATE	oral	382	mg/kg
ATE	dermal	500	mg/kg
cATpE	inhalative, Dust/Mist	0.5	mg/l
cATpE	inhalative, Vapors	3	mg/l

Isopropylbenzene

CAS No.	98-82-8
EINECS no.	202-704-5
Concentration	>= 0,1 < 1 %

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

Flam. Liq. 3	H226
Asp. Tox. 1	H304
STOT SE 3	H335
Aquatic Chronic 2	H411
Carc. 1B	H350

Concentration limits (Regulation (EC) No. 1272/2008)

TOT SE 3	H335	< 25 %
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Additional remarks:

DSD	Directive 67/548/EEC, Annex I, Note C, 4
CLP	Regulation (EC) No 1272/2008, Annex VI, Note C

3.2 Mixtures:

-

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SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. Remove affected person from danger area. When vapours are intensively inhaled, seek medical help immediately.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2 Most Important Symptoms and Effects, both Acute and Delayed:

Until now no symptoms known so far.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed:

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media:

Suitable extinguishing media

Dry powder, Foam, Carbon dioxide

Non suitable extinguishing media

Full water jet

5.2 Special Hazards Arising from the Substance or Mixture:

In case of combustion evolution of dangerous gases possible.

5.3 Advice for Firefighters:

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

Observe manufacturer's / distributor's instructions

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing.

Refer to protective measures listed in Sections 7 and 8.

6.2 Environmental Precautions:

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities

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6.3 Methods and Material for Containment and Cleaning-Up:

Pick up with absorbent material. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of absorbed material in accordance with the regulations.

6.4 Reference to Other Sections:

Refer to protective measures listed in Sections 7 and 8

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). Observe the usual precautions for handling chemicals. Keep container tightly closed.

7.2 Conditions for Safe Storage, Including and Incompatibilities:

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

Hints on storage assembly

Do not store together with foodstuffs.

Storage classes

Storage class according to TRGS 510 10 Flammable liquids

Further information on storage conditions

Protect from heat and direct sunlight. Keep container tightly closed and dry in a cool, well-ventilated place. Keep locked up and out of the reach of children. Observe TDS precautions.

7.3 Specific End Use(s):

Adhesive agent

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

There are not known any further control parameters.

8.2 Exposure Controls:

General protective and hygiene measures

Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden.

Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Short term: filter apparatus, Filter A

Hand protection

Chemical resistant gloves

Use	Short-term hand contact
Appropriate Material	nitrile
Material thickness	>= 0,4 mm
Breakthrough time	> 480 min

Eye protection

Safety glasses with side protection shield; Face shield

Body protection

Clothing as usual in the chemical industry. Protective shoes

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Physical state	Liquid
Colour	Yellowish
Odour	Acrylic-like
Melting point	
Remarks	Not determined

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Freezing point		
Remarks		Not determined
Boiling point or initial boiling point and boiling range		
Value		95°C
Flammability		Not determined
Upper and lower explosive limits		
Remarks		Not determined
Flash point		
Value		90°C
Auto-ignition temperature		
Remarks		Not determined
Decomposition temperature		
Remarks		Not determined
pH value		
Remarks		Not determined
Viscosity		
Remarks		Not determined
Solubility(ies)		
Remarks		Not determined
Partition coefficient n-octanol/water (log value)		
Remarks		Not determined
Vapour pressure		
Remarks		Not determined
Density and/or relative density		
Value		0.9 to 1.1 g/cm ³
Temperature		23°C
Relative vapour density		
Remarks		Not determined
9.2 Other Information:		
Odour threshold		
Remarks		Not determined
Evaporation rate (ether = 1) :		
Remarks		Not determined
Solubility in water		
Remarks		Not determined
Explosive properties		
Evaluation		Not determined
Oxidising properties		
Remarks		Not determined
Other information		Not determined

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:**
No hazardous reactions when stored and handled according to prescribed instructions.
- 10.2 Chemical Stability:**
No hazardous reactions known.
- 10.3 Possibility of Hazardous Reactions:**
No hazardous reactions known.
- 10.4 Conditions to Avoid:**
No hazardous reactions known.
- 10.5 Incompatible Materials:**
None known
- 10.6 Hazardous Decomposition Products:**
Such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Acute oral toxicity

ATE	8.681,81	mg/kg
	82	
Method	calculated value according to GHS (e.g see UN GHS)	

Acute oral toxicity (Components)

Cumene Hydroperoxide

Species	Rat	
LD50	382	mg/kg
Source	GESTIS-Stoffdatenbank	

2-Hydroxyethyl methacrylate

Species	Rat	
LD50	> 5000	mg/kg

Acute dermal toxicity

ATE	> 10.000	mg/kg
Method	calculated value according to GHS (e.g see UN GHS)	

Acute dermal toxicity (Components)

Cumene Hydroperoxide

Species	Rat	
LD50	500 to 1000	mg/kg
Source	GESTIS-Stoffdatenbank	

2-Hydroxyethyl methacrylate

Species	Rabbit	
LD50	>5000	mg/kg

Acute inhalational toxicity

ATE	68,1818	mg/l
Administration/Form	Vapors	
Method	calculated value according to GHS (e.g see UN GHS)	
ATE	11.3636	mg/l
Administration/Form	Dust/Mist	
Method	calculated value according to GHS (e.g see UN GHS)	

Acute inhalative toxicity (Components)

Cumene Hydroperoxide

Species	Rat	
LC50	1.37	mg/l
Duration of exposure	4	h
Source	GESTIS-Stoffdatenbank	

Skin corrosion/irritation

Remarks	Not determined
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Serious eye damage/irritation

Remarks	Not determined
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Sensitization

Remarks	Not determined
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Subacute, subchronic, chronic toxicity

Remarks	Not determined
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Mutagenicity

Remarks	Not determined
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Reproductive toxicity

Remarks	Not determined
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Contact Details

Carcinogenicity

Remarks Not determined

Specific Target Organ Toxicity (STOT)

Remarks Not determined

11.2 Information on Other Hazards:

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

11.2.1 Endocrine Disrupting Properties

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

11.2.2 Other Hazards:

No toxicological data are available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

General information

Not determined

Fish toxicity (Components)

2-Hydroxyethyl methacrylate

Species	Oryzias latipes	
LC50	> 100	mg/l
Duration of exposure	96	h

Daphnia toxicity (Components)

2-Hydroxyethyl methacrylate

Species	Daphnia magna	
EC50	380	mg/l
Duration of exposure	48	h

2-Hydroxyethyl methacrylate

Species	Daphnia magna	
NOEC	53	mg/l
Duration of exposure	21	d

Algae toxicity (Components)

2-Hydroxyethyl methacrylate

Species	Selenastrum capricornutum	
EC50	345	mg/l
Duration of exposure	72	h

12.2 Persistence and Degradability:

General information

Not determined

Biodegradability (Components)

2-Hydroxyethyl methacrylate

Value	>= 92	%
Duration of test	14	d

12.3 Bioaccumulative Potential:

General information

Not determined

Partition coefficient n-octanol/water (log value)

Not determined

12.4 Mobility in Soil:

Not determined

Contact Details

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12.5 Results of PBT and vPvB Assessment:

Not determined

Results of PBT and vPvB assessment ***

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties:

There is no data available on the product apart from the information given in this subsection.

Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7 Other Adverse Effects:

Not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Disposal recommendations for the product

EWC waste code 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

EWC waste code 15 01 10* packaging containing residues of or contaminated by dangerous substances

Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

SECTION 14: TRANSPORT INFORMATION

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1 UN Number:	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.
14.2 UN Proper Shipping Name:	-	-	-
14.3 Transport Hazard Class(es):	-	-	-
14.4 Packing Group:	-	-	-
14.5 Environmental Hazards:	-	No	-
14.6 Special Precautions for User:	The relevant transport regulations have to be considered		
14.7 Maritime transport in bulk according to IMO instruments:	Not relevant		

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health & Environmental Regulations/Legislation Specific for the Substance or Mixture:

VOC

VOC (EU) 0 % 0 g/l

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Other information

All components are contained in the IECSC inventory.
All components are contained in the ECL inventory.
All components are contained in the TSCA inventory or exempted.
All components are contained in the DSL inventory.

15.2 Chemical Safety Assessment:

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

- H226 Flammable liquid and vapour.
- H242 Heating may cause a fire.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H350 May cause cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

- | | |
|-------------------|--|
| Acute Tox. 3 | Acute toxicity, Category 3 |
| Acute Tox. 4 | Acute toxicity, Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic, Category 2 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Carc. 1B | Carcinogenicity, Category 1B |
| Eye Irrit. 2 | Eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquid, Category 3 |
| Org. Perox. E | Organic peroxide, Type E |
| Skin Corr. 1B | Skin corrosion, Category 1B |
| Skin Irrit. 2 | Skin irritation, Category 2 |
| Skin Sens. 1 | Skin sensitization, Category 1 |
| STOT RE 2 | Specific target organ toxicity - repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, Category 3 |

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their particular use.

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MATERIAL: EB Penloc 1:1R Part B

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- 1.1 Product Name:** EB Penloc 1:1R Part B
- 1.2 Identified Uses:** Industrial uses: Uses of substances as such or in preparations at industrial sites
Adhesives, sealants
Uses advised against: Consumer uses: Private households (= general public = consumers)
- 1.3 UFI:**
- 1.3 Supplier:** Techsil Ltd
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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

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

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H335

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16

2.2 Label Elements:

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.



Signal word

Danger

Hazard statements ***

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

Precautionary statements

P261.9	Avoid breathing vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTRE or doctor if you feel unwell.
P501.A	Dispose of waste according to applicable legislation.

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Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

Contains:

2-Hydroxyethyl methacrylate; 2-Hydroxypropyl Methacrylate; 2Ethylhexylmethacrylat

2.3 Other Hazards:

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Hazardous ingredients

2-Hydroxyethyl methacrylate

CAS No.	868-77-9
EINECS no.	212-782-2
Registration no.	01-2119490169-29
Concentration	>= 25 < 50 %

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

Eye Irrit. 2	H319
Skin Sens. 1	H317
Skin Irrit. 2	H315

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note D

2-Ethylhexylmethacrylate

CAS No.	688-84-6
EINECS no.	211-708-6
Registration no.	01-2119490166-35
Concentration	>= 20 < 25 %

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H335

Concentration limits (Regulation (EC) No. 1272/2008)

STOT SE 3 H335 >= 10 %

2-Hydroxypropyl Methacrylate

CAS No.	923-26-2
EINECS no.	213-090-3
Concentration	>= 10 < 25 %

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319
Skin Sens. 1	H317

Additional remarks:

DSD Directive 67/548/EEC, Annex I, Note D

CLP Regulation (EC) No 1272/2008, Annex VI, Note C, D

3.2 Mixtures:

-

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Contact Details

4.1 Description of First Aid Measures:

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. When vapours are intensively inhaled, seek medical help immediately.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2 Most Important Symptoms and Effects, both Acute and Delayed:

Until now no symptoms known so far.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed:

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media:

Suitable extinguishing media

Dry powder, Carbon dioxide, Foam

Non suitable extinguishing media

Full water jet

5.2 Special Hazards Arising from the Substance or Mixture:

In case of combustion evolution of dangerous gases possible.

5.3 Advice for Firefighters:

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8

6.2 Environmental Precautions:

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities

6.3 Methods and Material for Containment and Cleaning-Up:

Pick up with absorbent material. Dispose of absorbed material in accordance with the regulations.

6.4 Reference to Other Sections:

Refer to protective measures listed in Sections 7 and 8

SECTION 7: HANDLING AND STORAGE

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7.1 Precautions for Safe Handling:

Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep container tightly closed. Observe the usual precautions for handling chemicals.

7.2 Conditions for Safe Storage, Including and Incompatibilities:

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

Storage classes

Storage class according to TRGS 510 10 Flammable liquids

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Observe TDS precautions

7.3 Specific End Use(s):

Adhesive agent

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

There are not known any further control parameters.

8.2 Exposure Controls:

General protective and hygiene measures

Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden.

Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Short term: filter apparatus, Filter A

Hand protection

Chemical resistant gloves

Use	Short-term hand contact		
Appropriate Material	nitrile		
Material thickness	>=	0,4	mm
Breakthrough time	>	480	min

Eye protection

Safety glasses with side protection shield; Face shield

Body protection

Clothing as usual in the chemical industry. Protective shoes

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Physical state	Liquid
Colour	Blue
Odour	Acrylic-like
Melting point	
Remarks	Not determined
Boiling point or initial boiling point and boiling range	
Value	95°C
Flammability	Not determined
Upper and lower explosive limits	
Remarks	Not determined
Flash point	
Value	90°C
Auto-ignition temperature	
Remarks	Not determined
Decomposition temperature	
Remarks	Not determined

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pH value			
Remarks		Not determined	
Viscosity			
dynamic			
Value	20000 to 30000		mPa.s
Temperature	23°C		
Solubility(ies)			
Remarks		Not determined	
Partition coefficient n-octanol/water (log value)			
Remarks		Not determined	
Vapour pressure			
Remarks		Not determined	
Density and/or relative density			
Value	0.9 to 1.1 g/cm ³		
Temperature	23°C		
Relative vapour density			
Remarks		Not determined	

9.2 Other Information:

Odour threshold			
Remarks		Not determined	
Evaporation rate (ether = 1) :			
Remarks		Not determined	
Solubility in water			
Remarks		Not determined	
Explosive properties			
Evaluation		Not determined	
Oxidising properties			
Remarks		Not determined	
Other information		Not determined	

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions when stored and handled according to prescribed instructions.

10.2 Chemical Stability:

No hazardous reactions known.

10.3 Possibility of Hazardous Reactions:

No hazardous reactions known.

10.4 Conditions to Avoid:

No hazardous reactions known.

10.5 Incompatible Materials:

None known

10.6 Hazardous Decomposition Products:

Such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Acute oral toxicity

Not determined

Acute oral toxicity (Components)

Silicon dioxide

Species	Rat		
LD50	> 10000		mg/kg

2-Hydroxyethyl methacrylate

Species	Rat		
LD50	> 5000		mg/kg

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Acute dermal toxicity

Not determined

Acute dermal toxicity (Components)

Silicon dioxide

Species	Rat	
LD50	> 5000	mg/kg

2-Hydroxyethyl methacrylate

Species	Rabbit	
LD50	>5000	mg/kg

Acute inhalational toxicity

Not determined

Skin corrosion/irritation

Remarks Not determined

Serious eye damage/irritation

Remarks Not determined

Sensitization

Remarks Not determined

Subacute, subchronic, chronic toxicity

Remarks Not determined

Mutagenicity

Remarks Not determined

Reproductive toxicity

Remarks Not determined

Carcinogenicity

Remarks Not determined

Specific Target Organ Toxicity (STOT)

Remarks Not determined

11.2 Information on Other Hazards:

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

11.2.1 Endocrine Disrupting Properties

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

11.2.2 Other Hazards:

No toxicological data are available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

General information

Not determined

Fish toxicity (Components)

Silicon dioxide

Species	zebra fish (Brachydanio rerio)	
LC50	> 10000	mg/l
Duration of exposure	96	h

2-Hydroxyethyl methacrylate

Species	Oryzias latipes	
LC50	> 100	mg/l
Duration of exposure	96	h

Daphnia toxicity (Components)

Silicon dioxide

Species		
EC50	> 10000	
Duration of exposure	24	h

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2-Hydroxyethyl methacrylate

Species	Daphnia magna	
EC50	380	mg/l
Duration of exposure	48	h

2-Hydroxyethyl methacrylate

Species	Daphnia magna	
NOEC	24,1	mg/l
Duration of exposure	21	d

Algae toxicity (Components)

2-Hydroxyethyl methacrylate

Species	Selenastrum capricornutum	
EC50	345	mg/l
Duration of exposure	72	h

12.2 Persistence and Degradability:

General information

Not determined

Biodegradability (Components)

2-Hydroxyethyl methacrylate

Value	>= 92	%
Duration of test	14	d

12.3 Bioaccumulative Potential:

General information

Not determined

Partition coefficient n-octanol/water (log value)

Not determined

12.4 Mobility in Soil:

Not determined

12.5 Results of PBT and vPvB Assessment:

Not determined

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties:

There is no data available on the product apart from the information given in this subsection.

Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7 Other Adverse Effects:

Not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Disposal recommendations for the product

EWC waste code 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

EWC waste code 15 01 10* packaging containing residues of or contaminated by dangerous substances

Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

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SECTION 14: TRANSPORT INFORMATION

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1 UN Number:	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.
14.2 UN Proper Shipping Name:	-	-	-
14.3 Transport Hazard Class(es):	-	-	-
14.4 Packing Group:	-	-	-
14.5 Environmental Hazards:	-	No	-
14.6 Special Precautions for User:	The relevant transport regulations have to be considered		
14.7 Maritime transport in bulk according to IMO instruments:	Not relevant		

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health & Environmental Regulations/Legislation Specific for the Substance or Mixture:

VOC

VOC (EU) 0 % 0 g/l

Other information

All components are contained in the TSCA inventory or exempted.
All components are contained in the IECSC inventory.
All components are contained in the ECL inventory.
All components are contained in the DSL inventory.

15.2 Chemical Safety Assessment:

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

CLP categories listed in Chapter 3

- Eye Irrit. 2 Eye irritation, Category 2
- Skin Irrit. 2 Skin irritation, Category 2
- Skin Sens. 1 Skin sensitization, Category 1
- STOT SE 3 Specific target organ toxicity - single exposure, Category 3

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their particular use.

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