

## MATERIAL: EB Penloc GTI Part A

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

- 1.1 Product Name:** EB Penloc GTI 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 UFI:**
- 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](mailto: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)

Flam. Liq. 2	H225
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

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H350	May cause cancer.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

### Contact Details

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### Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
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.  
P310 Immediately call a POISON CENTER or doctor.

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

#### Contains:

2-Hydroxyethyl methacrylate; Methyl-methacrylate; 1,4-Dihydroxybenzene; Cumene Hydroperoxide; Isopropylbenzene

#### 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

##### Methyl-methacrylate

CAS No.	80-62-6
EINECS no.	201-297-1
Concentration	>= 50 %

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

Flam. Liq. 2	H225
TOT SE 3	H335
Skin Irrit. 2	H315
Skin Sens. 1	H317

#### Additional remarks:

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

##### 2-Hydroxyethyl methacrylate

CAS No.	868-77-9
EINECS no.	212-782-2
Registration no.	01-2119490169-29
Concentration	>= 10 < 25 %

#### Concentration limits (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
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**Cumene Hydroperoxide**

CAS No. 80-15-9  
EINECS no. 201-254-7  
Concentration  $\geq 3 < 5 \%$

**Concentration limits (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	$\geq 3 < 10$	
STOT SE 3	H335	$\geq 1 < 10$	
Skin Corr. 1B	H314	$\geq 10$	
Eye Irrit. 2	H319	$\geq 1 < 3$	
Skin Irrit. 2	H315	$\geq 3 < 10$	
ATE	oral	382	mg/kg
ATE	dermal	500	mg/kg
cATpE	inhalative, Dust/Mist	0,5	mg/l
cATpE	inhalative, Vapors	3	mg/l

**Propylidynetrimehyl trimethacrylate**

CAS No. 3290-92-4  
EINECS no. 221-950-4  
Registration no. 01-2119542176-41  
Concentration  $\geq 1 < 2,5 \%$

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

Aquatic Chronic 2	H411
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**Isopropylbenzene**

CAS No. 98-82-8  
EINECS no. 202-704-5  
Concentration  $\geq 0,1 < 1 \%$

**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)**

STOT SE 3	H335	$< 25 \%$
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**Additional remarks:**

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

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### 1,4-Dihydroxybenzene

CAS No.	123-31-9
EINECS no.	204-617-8
Registration no.	01-2119524016-51
Concentration	>= 0,1 < 1 %

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

Aquatic Acute 1	H400
Skin Sens. 1	H317
Eye Dam. 1	H318
Carc. 2	H351
Acute Tox. 4	H302
Muta. 2	H341

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

Aquatic Acute 1	M = 10
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### 3.2 Mixtures:

-

## 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, Alcohol-resistant 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.

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### 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:

Keep away sources of ignition. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective 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 rest with suitable absorbent materials. Do not pick up with the help of saw-dust or other combustible substances. Clean contaminated floors and objects thoroughly, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed

### 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:

#### Advice on safe handling

Ensure adequate ventilation. Avoid formation of aerosols. Avoid impact, friction and electro-static loading; risk of ignition! Provide good ventilation of working area (local exhaust ventilation if necessary). Keep container tightly closed.

#### Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take action to prevent static discharges. Avoid impact and friction. Keep away from combustible material

### 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. Do not store with strong oxidizing agents.

#### Storage classes

Storage class according to TRGS 510 3 Flammable liquids

#### Further information on storage conditions

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

### 7.3 Specific End Use(s):

Adhesive agent

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control Parameters:**

**Exposure limit values**

**Methyl-methacrylate**

Value	208	mg/m <sup>3</sup>	50	ppm(V)
Short term exposure limit	416	mg/m <sup>3</sup>	100	ppm(V)

**Other information**

There are not known any further control parameters.

**8.2 Exposure Controls:**

**General protective and hygiene measures**

Do not smoke during work time. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Do not eat or drink 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**

Use NIOSH approved respirator if there is potential to exceed exposure limits. If this material is handled at elevated temperatures, or under mist-forming conditions without engineering controls, a NIOSH approved respirator must be used.

**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. Fire-resistant antistatic protective clothing

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on Basic Physical and Chemical Properties:**

Physical state	Liquid
Colour	Colourless
Odour	Characteristic
Melting point	
Remarks	Not determined
Freezing point	
Remarks	Not determined
Boiling point or initial boiling point and boiling range	
Value	101 °C
Flammability	Not determined
Upper and lower explosive limits	
Remarks	Not determined
Flash point	
Value	10°C
Auto-ignition temperature	
Remarks	Not determined
Decomposition temperature	
Remarks	Not determined
pH value	
Remarks	Not determined

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Viscosity	
dynamic	
Value	4000 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 <sup>3</sup>
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**

ATE	8.681,81	mg/kg
	82	

Method calculated value according to GHS (e.g see UN GHS)

**Acute oral toxicity (Components)**

**Methyl-methacrylate**

Species	rat	mg/kg
LD50	7872	

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**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)**

**Methyl-methacrylate**

Species Rabbit  
LC50 >5000 mg/kg

**Cumene Hydroperoxide**

Species Rabbit  
LD50 > 500 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)**

**Methyl-methacrylate**

Species Rat  
LC50 78 mg/l  
Duration of exposure 4 h

**Cumene Hydroperoxide**

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

**Skin corrosion/irritation**

Remarks Not determined

**Serious eye damage/irritation**

Remarks Not determined

**Sensitization**

Remarks Not determined

**Sensitization (Components)**

**Methacrylic acid**

evaluation sensitizing

**Subacute, subchronic, chronic toxicity**

Remarks Not determined

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**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:**

No toxicological data are available.

**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:**

Inhalation may lead to irritation of the respiratory tract.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity:**

**General information**

Not determined

**Fish toxicity (Components)**

**Methyl-methacrylate**

Species	Fathead minnow (Pimephales promelas)
LC50	125,5 to 275,0 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)**

**Methyl-methacrylate**

Species	Daphnia magna
EC50	720 mg/l

**2-Hydroxyethyl methacrylate**

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

**2-Hydroxyethyl methacrylate**

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

**Algae toxicity (Components)**

**Methyl-methacrylate**

Species	Algae
EC50	170 mg/l
Duration of exposure	96 h

**2-Hydroxyethyl methacrylate**

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

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**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.

**SECTION 14: TRANSPORT INFORMATION**

	<b>Land transport ADR/RID</b>	<b>Marine transport IMDG/GGVSee</b>	<b>Air transport ICAO/IATA</b>
	Tunnel restriction code: E		
	EmS: -	F-E, S-D	
<b>14.1 UN Number:</b>	1133	1133	1133
<b>14.2 UN Proper Shipping Name:</b>	ADHESIVES (2,3-Epoxypropylmethacrylate, Methylmethacrylate)	ADHESIVES (2,3-Epoxypropylmethacrylate, Methylmethacrylate)	ADHESIVES

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**14.3 Transport Hazard Class(es):**



**14.4 Packing Group:**

III

The product is viscous; packing group III in containers with not more than 450 ltrs.

Limited Quantity: 5L

Transport category: 3

III

The product is viscous; packing group III in containers with not more than 450 ltrs.

III

The product is viscous; packing group III in containers with not more than 450 ltrs.

**14.5 Environmental Hazards:**

-

-

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**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**

- H225 Highly flammable liquid and vapour.
- 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.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.
- H351 Suspected of causing cancer.

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

H400 Very toxic to aquatic life.

H411 Very toxic to aquatic life. 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 Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Muta. 2	Germ cell mutagenicity, Category 2
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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- 1.1 Product Name:** EB Penloc GTI Part B
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Adhesives, sealants  
**Uses advised against:** Consumer uses: Private households (= general public = consumers)
- 1.3 UFI:**
- 1.3 Supplier:** Techsil Ltd  
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- 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)

Flam. Liq. 2	H225
Skin Corr. 1A	H314
Eye Dam. 1	H318
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

H225	Highly flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction
H335	May cause respiratory irritation.

#### Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.

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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:**

Methacrylic acid; 1-Benzoyl-2-Ethylimidazol; 2-Hydroxyethyl methacrylate; Methyl-methacrylate

### 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**

**Methyl-methacrylate**

CAS No. 80-62-6  
EINECS no. 201-297-1  
Concentration >= 50 %

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

Flam. Liq. 2	H225
TOT SE 3	H335
Skin Irrit. 2	H315
Skin Sens. 1	H317

**Additional remarks:**

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

**2-Hydroxyethyl methacrylate**

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

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

Eye Irrit. 2	H319
Skin Sens. 1	H317
Skin Irrit. 2	H315
Aquatic Chronic 2	H411

**Methacrylic acid**

CAS No. 79-41-4  
EINECS no. 201-204-4  
Registration no. 01-2119463884-26  
Concentration >= 10 < 20 %

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

Acute Tox. 3	H311
Acute Tox. 4	H302
Skin Corr. 1A	H314
Acute Tox. 4	H332

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		STOT SE 3	H335		
<b>Concentration limits (Regulation (EC) No. 1272/2008)</b>					
		STOT SE 3	H335	>= 1	
ATE	oral		1.320		mg/kg
ATE	dermal		500		mg/kg
cATpE	inhalative, Dust/Mist		1.5		mg/l
cATpE	inhalative, Vapors		11		mg/l

**Additional remarks:**

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

**Monobenzoyl Thiourea**

CAS No. 614-23-3  
 Concentration >= 1 < 8,3 %

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

		Acute Tox. 4	H302		
cATpE	oral		500		mg/kg

**1-Benzoyl-2-Ethylimidazol**

CAS No. 137590-32-0  
 EINECS no. 415-820-8  
 Concentration >= 1 < 3 %

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

Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 3	H412

**3.2 Mixtures:**

-

**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.). Summon a doctor immediately.

**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.

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#### **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. 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.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### **6.1 Personal Precautions, Protective Equipment and Emergency Procedures:**

Keep away sources of ignition. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective 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. Do not pick up with the help of saw-dust or other combustible substances. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

#### **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:**

##### **Advice on safe handling**

Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). Observe the usual precautions for handling chemicals. Avoid impact, friction and electrostatic loading; risk of ignition! Keep container tightly closed.

##### **Advice on protection against fire and explosion**

Keep away from sources of heat and ignition. No smoking. Take action to prevent static discharges. Avoid impact and friction. Keep away from combustible material

#### **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 with strong oxidizing agents.

##### **Storage classes**

Storage class according to TRGS 510      3      Flammable liquids

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**Further information on storage conditions**

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

**7.3 Specific End Use(s):**

-

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control Parameters:**

**Exposure limit values**

**Methyl-methacrylate**

Value	208	mg/m <sup>3</sup>	50	ppm(V)
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Short term exposure limit	416	mg/m <sup>3</sup>	100	ppm(V)
---------------------------	-----	-------------------	-----	--------

**Methacrylic acid**

Value	72	mg/m <sup>3</sup>	20	ppm(V)
-------	----	-------------------	----	--------

Short term exposure limit	143	mg/m <sup>3</sup>	40	ppm(V)
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**Other information**

There are not known any further control parameters.

**8.2 Exposure Controls:**

**General protective and hygiene measures**

Do not smoke during work time. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Do not eat or drink 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**

Use NIOSH approved respirator if there is potential to exceed exposure limits. If this material is handled at elevated temperatures, or under mist-forming conditions without engineering controls, a NIOSH approved respirator must be used.

**Hand protection**

Chemical resistant gloves

Use Short-term hand contact

Appropriate Material nitrile

Material thickness	>=	0,4	mm
--------------------	----	-----	----

Breakthrough time	>	480	min
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**Eye protection**

Safety glasses with side protection shield; Face shield

**Body protection**

Clothing as usual in the chemical industry. Fire-resistant antistatic protective clothing

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on Basic Physical and Chemical Properties:**

Physical state	Liquid
Colour	Colourless
Odour	Characteristic
Melting point	
Remarks	Not determined
Freezing point	
Remarks	Not determined
Boiling point or initial boiling point and boiling range	
Value	101 °C
Flammability	Not determined
Upper and lower explosive limits	
Remarks	Not determined
Flash point	
Value	10°C

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Auto-ignition temperature	
Remarks	Not determined
Decomposition temperature	
Remarks	Not determined
pH value	
Remarks	Not determined
Viscosity	
dynamic	
Value	4000 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 <sup>3</sup>
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 4.680,85 mg/kg  
11  
Method calculated value according to GHS (e.g see UN GHS)

**Acute oral toxicity (Components)**

**Methacrylic acid**

Species Rat  
LD50 1320 mg/kg

**Methyl-methacrylate**

Species Rat  
LD50 7872 mg/kg

**2-Hydroxyethyl methacrylate**

Species Rat  
LD50 > 5000 mg/kg

**Acute dermal toxicity**

ATE 3.333,33 mg/kg  
33  
Method calculated value according to GHS (e.g see UN GHS)

**Acute dermal toxicity (Components)**

**Methacrylic acid**

Species Rabbit  
LD50 >5000 to 1000 mg/kg

**Methyl-methacrylate**

Species Rabbit  
LC50 > 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 73,3333 mg/l  
Administration/Form Vapors  
Method calculated value according to GHS (e.g see UN GHS)

ATE 10 mg/l  
Administration/Form Dust/Mist  
Method calculated value according to GHS (e.g see UN GHS)

**Acute inhalative toxicity (Components)**

**Methacrylic acid**

Species Rat  
LC50 7.1 mg/l  
Duration of exposure 4 h

**Methyl-methacrylate**

Species Rat  
LC50 78000 mg/l  
Duration of exposure 4 h

**Skin corrosion/irritation**

Remarks Not determined

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**Serious eye damage/irritation**

Remarks Not determined

**Sensitization**

Remarks Not determined

**Sensitization (Components)**

**Methacrylic acid**

Route of exposure dermal  
Species guinea pig  
evaluation non-sensitizing

**Methyl-methacrylate**

evaluation sensitizing

**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:**

No toxicological data are available.

**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:**

Inhalation may lead to irritation of the respiratory tract.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity:**

**General information**

Not determined

**Fish toxicity (Components)**

**Methacrylic acid**

Species rainbow trout (*Oncorhynchus mykiss*)  
LC50 85 mg/l  
Duration of exposure 96 h

**Methyl-methacrylate**

Species Fathead minnow (*Pimephales promelas*)  
LC50 125.5 to 275.0 mg/l  
Duration of exposure 96 H

**Daphnia toxicity (Components)**

**Methacrylic acid**

Species *Daphnia magna*  
EC50 > 130 mg/l  
Duration of exposure 48 h

**Methacrylic acid**

Species *Daphnia magna*  
NOEC 53 mg/l

**Methyl-methacrylate**

Species *Daphnia magna*  
EC50 45 mg/l

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**Algae toxicity (Components)**

**Methacrylic acid**

Species	Selenastrum capricornutum	
EC50	45	mg/l
Duration of exposure	72	h

**Methacrylic acid**

Species	Selenastrum capricornutum	
NOEC	8.2	mg/l
Duration of exposure	72	h

**Methyl-methacrylate**

Species	Algae	
EC50	170	mg/l
Duration of exposure	96	h

**12.2 Persistence and Degradability:**

**General information**

Not determined

**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:**

**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**




Tunnel restriction code: E

EmS: -

F-E, S-D

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<b>14.1 UN Number:</b>	1133	1133	1133
<b>14.2 UN Proper Shipping Name:</b>	ADHESIVES (Methyl- methacrylate, Methacrylic acid)	ADHESIVES (Methyl- methacrylate, Methacrylic acid)	ADHESIVES
<b>14.3 Transport Hazard Class(es):</b>	3	3	3
			
<b>14.4 Packing Group:</b>	III The product is viscous; packing group III in containers with not more than 450 ltrs. Limited Quantity: 5L Transport category: 3	III The product is viscous; packing group III in containers with not more than 450 ltrs.	III The product is viscous; packing group III in containers with not more than 450 ltrs.
<b>14.5 Environmental Hazards:</b>	-	-	-
<b>14.6 Special Precautions for User:</b>	The relevant transport regulations have to be considered		
<b>14.7 Maritime transport in bulk according to IMO instruments:</b>	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

**15.2 Chemical Safety Assessment:**

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

**SECTION 16: OTHER INFORMATION**

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation
- H412 Harmful to aquatic life with long lasting effects.

**CLP categories listed in Chapter 3**

Acute Tox. 3 Acute toxicity, Category 3

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Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Skin Corr. 1A	Skin corrosion, Category 1A
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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