

Trade name: Penloc® GTI part A

Version: 1 / GB

Date revised: 09.01.2019

Replaces Version: - / GB

Print date: 07.02.2019

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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

P261.9 Avoid breathing vapours/spray.

P273 Avoid release to the environment.

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.

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

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

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients**Hazardous ingredients (Regulation (EC) No. 1272/2008)****Methyl-methacrylate**

CAS No. 80-62-6

EINECS no. 201-297-1

Concentration >= 50 %

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

Flam. Liq. 2	H225
STOT 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 D

2-Hydroxyethyl methacrylate

CAS No. 868-77-9

EINECS no. 212-782-2

Registration no. 01-2119490169-29

Concentration >= 10 < 25 %

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

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

Cumene Hydroperoxide

CAS No. 80-15-9

EINECS no. 201-254-7

Concentration >= 1 < 2,5 %

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

Trade name: Penloc® GTI part A

Version: 1 / GB

Date revised: 09.01.2019

Replaces Version: - / GB

Print date: 07.02.2019

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

Propylidynetrimethyl trimethacrylate

CAS No.	3290-92-4
EINECS no.	221-950-4
Registration no.	01-2119542176-41
Concentration	>= 1 < 2,5 %
Classification (Regulation (EC) No. 1272/2008)	Aquatic Chronic 2 H411

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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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. In the event of symptoms take medical treatment.

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

Trade name: Penloc® GTI part A

Version: 1 / GB

Date revised: 09.01.2019

Replaces Version: - / GB

Print date: 07.02.2019

Hints for the physician / hazards

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. 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. In case the product spills into sewage waters, immediately inform the 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). Avoid impact, friction and electro-static loading; risk of ignition!. Keep container tightly closed. Observe the usual precautions for handling chemicals.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take precautionary measures against static discharge. Avoid impact and friction. Keep away from combustible material.

7.2. Conditions for safe storage, including any incompatibilities

Trade name: Penloc® GTI part A

Version: 1 / GB

Date revised: 09.01.2019

Replaces Version: - / GB

Print date: 07.02.2019

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.

Further information on storage conditions

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

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values****1,4-Dihydroxybenzene**

Value	0,5	mg/m ³		
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Methyl-methacrylate

Value	208	mg/m ³	50	ppm(V)
Short term exposure limit	416	mg/m ³	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. 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. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. 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

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	liquid
Colour	green
Odour	characteristic
Odour threshold	
Remarks	not determined

Trade name: Penloc® GTI part A

Version: 1 / GB

Date revised: 09.01.2019

Replaces Version: - / GB

Print date: 07.02.2019

pH value

Remarks not determined

Melting point

Remarks not determined

Freezing point

Remarks not determined

Initial boiling point and boiling range

Value 101 °C

Flash point

Value 10 °C

Evaporation rate (ether = 1) :

Remarks not determined

Flammability (solid, gas)

not determined

Upper/lower flammability or explosive limits

Remarks not determined

Vapour pressure

Value 47 hPa

Temperature 20 °C

Vapour density

Remarks not determined

DensityValue 1 g/cm³

Temperature 25 °C

Solubility in water

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

Viscosity**dynamic**

Value 4000 to 6000 mPa.s

Temperature 25 °C

kinematicValue 4000 to 6000 mm²/s

Temperature 23 °C

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Trade name: Penloc® GTI part A

Version: 1 / GB

Date revised: 09.01.2019

Replaces Version: - / GB

Print date: 07.02.2019

9.2. Other information**Other information**

None known

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.

Decomposition temperature

Remarks not determined

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

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

Acute oral toxicity (Components)**Methyl-methacrylate**

Species	rat		
LD50		7872	mg/kg

Cumene Hydroperoxide

Species	rat		
LD50		382	mg/kg
Source	GESTIS-Stoffdatenbank		

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	rat		
LD50		500	mg/kg
Source	GESTIS-Stoffdatenbank		

Acute inhalational toxicity

Trade name: Penloc® GTI part A

Version: 1 / GB

Date revised: 09.01.2019

Replaces Version: - / GB

Print date: 07.02.2019

ATE	>	100	mg/l
Administration/Form	Vapors		
Method	calculated value according to GHS (e.g see UN GHS)		
ATE	>	20	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	78000		mg/m ³
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)**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

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information**12.1. Toxicity****General information**

not determined

Fish toxicity (Components)**Methyl-methacrylate**

Species Fathead minnow (Pimephales promelas)

Trade name: Penloc ® GTI part A

Version: 1 / GB

Date revised: 09.01.2019

Replaces Version: - / GB

Print date: 07.02.2019

LC50	125,5	to	275,0	mg/l
Duration of exposure	96	h		

Daphnia toxicity (Components)**Methyl-methacrylate**

Species	Daphnia magna			
EC50	720			mg/l

Algae toxicity (Components)**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

Remarks not determined

12.4. Mobility in soil**General information**

not determined

12.5. Results of PBT and vPvB assessment**General information**

not determined

12.6. Other adverse effects**General information**

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

SECTION 14: Transport information

Trade name: Penloc® GTI part A

Version: 1 / GB

Date revised: 09.01.2019

Replaces Version: - / GB

Print date: 07.02.2019

Land transport ADR/RID

14.1. UN number

UN 1133

14.2. UN proper shipping name

ADHESIVES (Methyl-methacrylate)

14.3. Transport hazard class(es)

Class 3
Label



3

14.4. Packing group

Packing group III
Remarks

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

Limited Quantity 5 l

Transport category 3

14.5. Environmental hazards

Tunnel restriction code E

Marine transport IMDG/GGVSee

14.1. UN number

UN 1133

14.2. UN proper shipping name

ADHESIVES (Methyl-methacrylate)

14.3. Transport hazard class(es)

Class 3



3

14.4. Packing group

Packing group III
Remarks

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

14.5. Environmental hazards

no

EmS F-E, S-D

Air transport ICAO/IATA

14.1. UN number

UN 1133

14.2. UN proper shipping name

ADHESIVES (Methyl-methacrylate)

14.3. Transport hazard class(es)

Class 3



3

14.4. Packing group

Trade name: Penloc® GTI part A

Version: 1 / GB

Date revised: 09.01.2019

Replaces Version: - / GB

Print date: 07.02.2019

Packing group
Remarks

III

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

14.5. Environmental hazards

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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****VOC**

VOC (EU) 0 % 0 g/l

15.2. Chemical safety assessment

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

SECTION 16: Other information**Hazard statements listed in Chapter 3**

H225	Highly flammable liquid and vapour.
H242	Heating may cause a fire.
H302	Harmful if swallowed.
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.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure:
H400	Very toxic to aquatic life.
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 Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
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
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

Department issuing safety data sheet

Department product safety

Supplemental information

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Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.