# Safety data sheet
## complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

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

### 1.1 Product identifier

**Trade name:** PENECOAT™ CLEAR MAT FINISH
**UFI:** APC0-306E-R00E-TE33

### 1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
**Application of the substance / the mixture:**
Satin-matt transparent liquid-applied polyurethane waterproofing coating.

### 1.3 Details of the supplier of the safety data sheet
**Manufacturer/Supplier:**
PENETRON HELLAS S.A.
50, THRAKOMAKEDONON AV., 136 79 ACHARNES, GREECE
TEL.: +30 210 2448250 - FAX: + 30 210 2476803
Email: info@penetron.gr Site: www.penetron.gr
G.E.MI. No: 07278001000

### 1.4 Emergency telephone number:



European Emergency Tel.: 112

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture
**Classification according to Regulation EC No 1272/2008 CLP:**



GHS02 flame

| | |
|---|---|
| Flam. Liq. 3 | H226 Flammable liquid and vapour. |



GHS08 health hazard

| | |
|---|---|
| Resp. Sens. 1 | H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| STOT RE 2 | H373 May cause damage to organs through prolonged or repeated exposure. |
| Asp. Tox. 1 | H304 May be fatal if swallowed and enters airways. |



GHS07

| | |
|---|---|
| Skin Irrit. 2 | H315 Causes skin irritation. |
| Eye Irrit. 2 | H319 Causes serious eye irritation. |
| Skin Sens. 1 | H317 May cause an allergic skin reaction. |
| STOT SE 3 | H335 May cause respiratory irritation. |

| | |
|---|---|
| Aquatic Chronic 3 | H412 Harmful to aquatic life with long lasting effects. |

(Contd. on page 2)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 1)

**2.2 Label elements**
**Labelling according to Regulation EC No 1272/2008 CLP:**
The product is classified and labelled according to the CLP regulation.
**Hazard pictograms:**



GHS02 GHS07 GHS08

**Signal word:** Danger

**Hazard-determining components of labelling:**
Reaction mass of ethylbenzene and m-xylene and p-xylene
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate
xylene, mixture of isomers

**Hazard statements:**
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

| | |
|---|---|
| P102 | Keep out of reach of children. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/ doctor. |
| P331 | Do NOT induce vomiting. |
| P302+P352 | IF ON SKIN: Wash with plenty of water and soap. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

**Additional information:**
EUH204 Contains isocyanates. May produce an allergic reaction.
As from 24 August 2023 adequate training is required before industrial or professional use.

(Contd. on page 3)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 2)

### 2.3 Other hazards
**Results of PBT and vPvB assessment**
The product does not contain ingredients that are considered either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
**PBT:** Not applicable
**vPvB:** Not applicable
**Determination of endocrine-disrupting properties**
The product does not contain substances included in the list established in accordance with Article 59(1) of REACH for endocrine disrupting properties or has not been identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or higher than 0.1%.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures
**Description:** Mixture: consisting of the following components.

**Ingredients according Regulation (EU) 2020/878:**

| | | |
|---|---|---|
| EC number: 905-562-9<br>Reg.nr.: 01-2119488216-32-XXXX | Reaction mass of ethylbenzene and m-xylene and p-xylene<br>Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412<br>Specific concentration limit:<br>STOT RE 2; H373: C ≥ 10% | >45-<50% |
| CAS: 53880-05-0<br>NLP: 500-125-5 | 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers<br>Skin Sens. 1B, H317; STOT SE 3, H335 | >4-<7% |
| CAS: 140921-24-0<br>ELINCS: 411-700-4<br>Index number: 616-079-00-5<br>Reg.nr.: 01-2119983489-15-XXXX | 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl) ethyl)carbamate<br>Skin Sens. 1, H317 | >4-<7% |
| CAS: 108-65-6<br>EINECS: 203-603-9<br>Index number: 607-195-00-7<br>Reg.nr.: 01-2119475791-29-XXXX | 2-methoxy-1-methylethyl acetate<br>Flam. Liq. 3, H226; STOT SE 3, H336<br>substance with a Community workplace exposure limit | >3-<5% |

(Contd. on page 4)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 3)

| | | |
|---|---|---|
| CAS: 1330-20-7<br>EINECS: 215-535-7<br>Index number: 601-022-00-9<br>Reg.nr.: 01-2119488216-32-XXXX | xylene, mixture of isomers<br>Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335<br>substance with a Community workplace exposure limit | >1-<2.25% |
| CAS: 4098-71-9<br>EINECS: 223-861-6<br>Index number: 615-008-00-5<br>Reg.nr.: 01-2119490408-31-XXXX | 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate<br>Acute Tox. 3, H331; Resp. Sens. 1, H334; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335<br>Specific concentration limits:<br>Resp. Sens. 1; H334: C ≥0.5 %<br>Skin Sens. 1; H317: C ≥ 0.5 %<br>substance with a Community workplace exposure limit | >0.1-<1% |
| CAS: 100-41-4<br>EINECS: 202-849-4<br>Index number: 601-023-00-4<br>Reg.nr.: 01-2119489370-35-XXXX | ethylbenzene<br>Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332<br>substance with a Community workplace exposure limit | >0.05-<0.4% |
| CAS: 872-50-4<br>EINECS: 212-828-1<br>Index number: 606-021-00-7<br>Reg.nr.: 01-2119472430-46-XXXX | 1-methyl-2-pyrrolidone<br>Repr. 1B, H360D; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335<br>Specific concentration limit:<br>STOT SE 3; H335: C ≥ 10%<br>substance with a Community workplace exposure limit | >0.01-<0.09% |
| CAS: 14808-60-7<br>EINECS: 238-878-4 | quartz<br>substance with a Community workplace exposure limit | >0.01-<0.025% |

**SVHC**
This product does not contain candidate substances of very high concern at a concentration ≥0.1% (Regulation (EC) No 1907/2006 (REACH), Article 59)
**Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures
**General information:**
Take affected persons out into the fresh air.
Seek immediate medical advice.
**After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
Seek immediate medical advice.
**After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Remove contaminated clothing.
Seek immediate medical advice.

(Contd. on page 5)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 4)

**After eye contact:**
Immediately rinse the eyes with plenty of water, alternately lifting the upper and lower eyelids.
Check and remove contact lenses if any.
Continue to rinse for at least 15 minutes.
Seek medical attention if irritation occurs.
Avoid strong water jet-risk of cornea damage, consult a doctor.
**After swallowing:**
Do not induce vomiting; call for medical help immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
Never give anything by mouth to an unconscious person.
**4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
**4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**
**Suitable extinguishing agents:** CO2, powder or water spray.
**For safety reasons unsuitable extinguishing agents:** Water with full jet
**5.2 Special hazards arising from the substance or mixture**
Carbon dioxide (CO2)
Carbon monoxide (CO)
**5.3 Advice for firefighters**
**Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
**Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
Avoid contact with skin and eyes.
Keep away from ignition sources.
Avoid inhalation of vapors.
Wear protective clothing.
**6.1.1 For non-emergency personnel**
Avoid contact with dripping or leaking material.
Use personal protective equipment.
**6.1.2 For emergency responders**
First-aid responders must wear protective clothing, gloves, goggles and respiratory device with filter type A.
**6.2 Environmental precautions:**
Do not allow to penetrate the ground/soil.
Do not allow it to enter sewers/ surface or ground water. It must not penetrate the earth's waters.
**6.3 Methods and material for containment and cleaning up:**
Collect with absorbent material (sand, diatomite).
**6.4 Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

(Contd. on page 6)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 5)

See Section 13 for disposal information.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with skin and eyes.
Do not eat, drink or smoke when using this product.
Wash your hands thoroughly after handling.
Wash contaminated clothes before reusing them.
**Information about fire - and explosion protection:**


Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.
**7.2 Conditions for safe storage, including any incompatibilities**
**Storage:** Store in well-sealed containers and in well-ventilated areas. Keep it cool.
**Requirements to be met by storerooms and receptacles:** Store in a cool location.
**Information about storage in one common storage facility:** Stored away from oxidizing agents.
**Further information about storage conditions:**
Protect from heat and direct sunlight.
Keep container tightly sealed.
**7.3 Specific end use(s)** No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

| **Ingredients with limit values that require monitoring at the workplace:** | |
|---|---|
| **CAS: 108-65-6 2-methoxy-1-methylethyl acetate** | |
| IOELV (EU) | Short-term value: 550 mg/m³, 100 ppm<br>Long-term value: 275 mg/m³, 50 ppm<br>Skin |
| WEL (United Kingdom) | Short-term value: 548 mg/m³, 100 ppm<br>Long-term value: 274 mg/m³, 50 ppm<br>Sk |
| **CAS: 1330-20-7 xylene, mixture of isomers** | |
| IOELV (EU) | Short-term value: 442 mg/m³, 100 ppm<br>Long-term value: 221 mg/m³, 50 ppm<br>Skin |
| WEL (United Kingdom) | Short-term value: 441 mg/m³, 100 ppm<br>Long-term value: 220 mg/m³, 50 ppm<br>Sk; BMGV |
| **CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate** | |
| BOELV (EU) | Short-term value: 0.012 (0.020)* mg/m³<br>Long-term value: 0.006 (0.010)* mg/m³<br>as -NCO *until 31.12.2028 |

(Contd. on page 7)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 6)

| | |
|---|---|
| WEL (United Kingdom) | Short-term value: 0.07 mg/m³<br>Long-term value: 0.02 mg/m³<br>Sen; as -NCO |
| **CAS: 8002-74-2 Paraffin waxes and Hydrocarbon waxes** | |
| WEL (United Kingdom) | Short-term value: 6 mg/m³<br>Long-term value: 2 mg/m³ |
| **CAS: 100-41-4 ethylbenzene** | |
| IOELV (EU) | Short-term value: 884 mg/m³, 200 ppm<br>Long-term value: 442 mg/m³, 100 ppm<br>Skin |
| WEL (United Kingdom) | Short-term value: 552 mg/m³, 125 ppm<br>Long-term value: 441 mg/m³, 100 ppm<br>Sk |
| **CAS: 1317-65-3 limestone** | |
| WEL (United Kingdom) | Long-term value: 10* 4** mg/m³<br>*inhalable dust; **respirable |
| **CAS: 872-50-4 1-methyl-2-pyrrolidone** | |
| BOELV (EU) | Short-term value: 80 mg/m³, 20 ppm<br>Long-term value: 40 mg/m³, 10 ppm<br>Skin |
| IOELV (EU) | Short-term value: 80 mg/m³, 20 ppm<br>Long-term value: 40 mg/m³, 10 ppm<br>Skin |
| WEL (United Kingdom) | Short-term value: 80 mg/m³, 20 ppm<br>Long-term value: 40 mg/m³, 10 ppm<br>Sk |
| **CAS: 77-58-7 dibutyltin dilaurate** | |
| WEL (United Kingdom) | Short-term value: 0.2 mg/m³<br>Long-term value: 0.1 mg/m³<br>as Sn; Sk |
| **CAS: 14808-60-7 quartz** | |
| BOELV (EU) | Long-term value: 0.1* mg/m³<br>*respirable fraction |
| **CAS: 2781-10-4 dibutyltin bis(2-ethylhexanoate)** | |
| WEL (United Kingdom) | Short-term value: 0.2 mg/m³<br>Long-term value: 0.1 mg/m³<br>as Sn; Sk |
| **CAS: 128-37-0 2,6-di-tert-butyl-p-cresol** | |
| WEL (United Kingdom) | Long-term value: 10 mg/m³ |

| | | |
|---|---|---|
| **DNELs** | | |
| **Reaction mass of ethylbenzene and m-xylene and p-xylene** | | |
| Oral | DNEL General Population (long term exposure - systemic effect) | 5 mg/kg bw/d (human) |

(Contd. on page 8)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 7)

| | | |
|---|---|---|
| Dermal | DNEL Workers (long term exposure - systemic effect) | 212 mg/kg bw/d (human) |
| | DNEL General Population (long term exposure - systemic effect) | 125 mg/kg bw/d (human) |
| Inhalative | DNEL Workers (long term exposure - systemic effect) | 221 mg/m³ (human) |
| | DNEL Workers (short term exposure - systemic effect) | 442 mg/m³ (human) |
| | DNEL Workers (long term exposure - local effect) | 221 mg/m³ (human) |
| | DNEL General Population (long term exposure - systemic effect) | 65.3 mg/m³ (human) |
| | DNEL General Population (acute/short term exposure - local effect) | 260 mg/m³ (human) |
| | DNEL General Population (long term exposure - local effect) | 65.3 mg/m³ (human) |
| | DNEL General Population (acute/short term exposure - systemic effect) | 260 mg/m³ (human) |
| | DNEL Workers (acute/short term exposure - local effect) | 442 mg/m³ (human) |
| **CAS: 140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate** | | |
| Oral | DNEL General Population (long term exposure - systemic effect) | 3.3 mg/kg bw/d (human) |
| Dermal | DNEL Workers (long term exposure - systemic effect) | 9.3 mg/kg bw/d (human) |
| | DNEL General Population (long term exposure - systemic effect) | 3.3 mg/kg bw/d (human) |
| Inhalative | DNEL Workers (long term exposure - systemic effect) | 3.3 mg/m³ (human) |
| | DNEL General Population (long term exposure - systemic effect) | 0.58 mg/m³ (human) |
| **CAS: 108-65-6 2-methoxy-1-methylethyl acetate** | | |
| Oral | DNEL General Population (long term exposure - systemic effect) | 36 mg/kg bw/d (human) |
| | DNEL General Population (acute\short term exposure - systemic effect) | 500 mg/kg bw/d (human) |
| Dermal | DNEL Workers (long term exposure - systemic effect) | 796 mg/kg bw/d (human) |
| | DNEL General Population (long term exposure - systemic effect) | 320 mg/kg bw/d (human) |
| Inhalative | DNEL Workers (long term exposure - systemic effect) | 275 mg/m³ (human) |

(Contd. on page 9)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 8)

| | | |
|---|---|---|
| | DNEL General Population (long term exposure - systemic effect) | 33 mg/m³ (human) |
| | DNEL General Population (long term exposure - local effect) | 33 mg/m³ (human) |
| | DNEL Workers (acute/short term exposure - local effect) | 550 mg/m³ (human) |
| **CAS: 1330-20-7 xylene, mixture of isomers** | | |
| Oral | DNEL General Population (long term exposure - systemic effect) | 2.5 mg/kg bw/d (human) |
| Dermal | DNEL Workers (long term exposure - systemic effect) | 212 mg/kg bw/d (human) |
| | DNEL General Population (long term exposure - systemic effect) | 125 mg/kg bw/d (human) |
| Inhalative | DNEL Workers (long term exposure - systemic effect) | 221 mg/m³ (human) |
| | DNEL Workers (short term exposure - systemic effect) | 442 mg/m³ (human) |
| | DNEL Workers (long term exposure - local effect) | 221 mg/m³ (human) |
| | DNEL General Population (long term exposure - systemic effect) | 65.3 mg/m³ (human) |
| | DNEL General Population (acute/short term exposure - local effect) | 260 mg/m³ (human) |
| | DNEL General Population (long term exposure - local effect) | 65.3 mg/m³ (human) |
| | DNEL General Population (acute/short term exposure - systemic effect) | 260 mg/m³ (human) |
| | DNEL Workers (acute/short term exposure - local effect) | 442 mg/m³ (human) |
| **CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate** | | |
| Inhalative | DNEL Workers (long term exposure - local effect) | 0.045 mg/m³ (human) |
| | DNEL Workers (acute/short term exposure - local effect) | 0.045 mg/m³ (human) |
| **CAS: 100-41-4 ethylbenzene** | | |
| Oral | DNEL General Population (long term exposure - systemic effect) | 1.6 mg/kg bw/d (human) |
| Dermal | DNEL Workers (long term exposure - systemic effect) | 180 mg/kg bw/d (human) |
| Inhalative | DNEL Workers (long term exposure - systemic effect) | 77 mg/m³ (human) |
| | DNEL General Population (long term exposure - systemic effect) | 15 mg/m³ (human) |

(Contd. on page 10)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 9)

| | | |
|---|---|---|
| | DNEL Workers (acute/short term exposure - local effect) | 293 mg/m³ (human) |
| **CAS: 872-50-4 1-methyl-2-pyrrolidone** | | |
| Oral | DNEL General Population (long term exposure - systemic effect) | 0.85 mg/kg bw/d (human) |
| Dermal | DNEL Workers (long term exposure - systemic effect) | 4.8 mg/kg bw/d (human) |
| | DNEL General Population (long term exposure - systemic effect) | 2.4 mg/kg bw/d (human) |
| Inhalative | DNEL Workers (long term exposure - systemic effect) | 14.4 mg/m³ (human) |
| | DNEL Workers (long term exposure - local effect) | 40 mg/m³ (human) |
| | DNEL General Population (long term exposure - systemic effect) | 3.6 mg/m³ (human) |
| | DNEL General Population (long term exposure - local effect) | 4.5 mg/m³ (human) |

| **PNECs** | |
|---|---|
| **Reaction mass of ethylbenzene and m-xylene and p-xylene** | |
| PNEC freshwater | 0.044 mg/l |
| PNEC freshwater (intermittent releases) | 0.01 mg/l |
| PNEC marinewater | 0.004 mg/l |
| PNEC sediment freshwater | 2.52 mg/kg dw |
| PNEC sediment marinewater | 0.252 mg/kg dw |
| PNEC soil | 0.852 mg/kg dw |
| PNEC STP | 1.6 mg/l |
| PNEC marinewater (intermittent releases) | 0.001 mg/l |
| **CAS: 140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate** | |
| PNEC freshwater | 0.043 mg/l |
| PNEC freshwater (intermittent releases) | 0.43 mg/l |
| PNEC marinewater | 0.004 mg/l |
| PNEC sediment freshwater | 164.5 mg/kg dw |
| PNEC sediment marinewater | 16.5 mg/kg dw |
| PNEC soil | 32.9 mg/kg dw |
| PNEC STP | 35 mg/l |
| **CAS: 108-65-6 2-methoxy-1-methylethyl acetate** | |
| PNEC freshwater | 0.635 mg/l |
| PNEC freshwater (intermittent releases) | 6.35 mg/l |
| PNEC marinewater | 0.064 mg/l |
| PNEC sediment freshwater | 3.29 mg/kg dw |
| PNEC sediment marinewater | 0.329 mg/kg dw |
| PNEC soil | 0.29 mg/kg dw |

(Contd. on page 11)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 10)

| | |
|---|---|
| PNEC STP | 100 mg/l |
| **CAS: 1330-20-7 xylene, mixture of isomers** | |
| PNEC freshwater | 0.044 mg/l |
| PNEC freshwater (intermittent releases) | 0.01 mg/l |
| PNEC marinewater | 0.004 mg/l |
| PNEC sediment freshwater | 2.52 mg/kg dw |
| PNEC sediment marinewater | 0.252 mg/kg dw |
| PNEC soil | 0.852 mg/kg dw |
| PNEC STP | 1.6 mg/l |
| PNEC marinewater (intermittent releases) | 0.001 mg/l |
| **CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate** | |
| PNEC freshwater | 0.027 mg/l |
| PNEC freshwater (intermittent releases) | 0.27 mg/l |
| PNEC marinewater | 0 mg/l |
| PNEC sediment freshwater | 98.51 mg/kg dw |
| PNEC sediment marinewater | 1.46 mg/kg dw |
| PNEC soil | 19.8 mg/kg dw |
| PNEC STP | 10.6 mg/l |
| PNEC marinewater (intermittent releases) | 0.04 mg/l |
| **CAS: 100-41-4 ethylbenzene** | |
| PNEC freshwater | 0.1 mg/l |
| PNEC marinewater | 0.01 mg/l |
| PNEC sediment freshwater | 13.7 mg/kg dw |
| PNEC sediment marinewater | 1.37 mg/kg dw |
| PNEC soil | 2.68 mg/kg dw |
| PNEC STP | 9.6 mg/l |
| **CAS: 872-50-4 1-methyl-2-pyrrolidone** | |
| PNEC freshwater | 0.25 mg/l |
| PNEC freshwater (intermittent releases) | 5 mg/l |
| PNEC marinewater | 0.025 mg/l |
| PNEC sediment freshwater | 1.09 mg/kg dw |
| PNEC sediment marinewater | 0.109 mg/kg dw |
| PNEC soil | 0.07 mg/kg dw |
| PNEC STP | 10 mg/l |

| | |
|---|---|
| **Ingredients with biological limit values:** | |
| **CAS: 1330-20-7 xylene, mixture of isomers** | |
| BMGV (United Kingdom) | 650 mmol/mol creatinine<br>Medium: urine<br>Sampling time: post shift<br>Parameter: methyl hippuric acid |

(Contd. on page 12)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 11)

| **CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate** | |
|---|---|
| BMGV (United Kingdom) | 1 µmol creatinine/mol<br>Medium: urine<br>Sampling time: At the end of the period od exposure<br>Parameter: isocyanate-derived diamine |

**8.2 Exposure controls**

**8.2.1. Appropriate engineering controls** Provide adequate ventilation.

**Individual protection measures, such as personal protective equipment**
**General protective and hygienic measures:**
Keep away from food, beverages and pet food.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Remove contaminated clothes and wash before reusing them.
Do not breathe vapours or mists.
Do not eat, drink or smoke while using the product.
**Respiratory protection:**



Use suitable respiratory protective device in case of insufficient ventilation. Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter A2-P2 (EN529) is recommended.

**Hand protection**



Protective gloves resistant to chemicals (standard EN 374-1)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material should be made considering the penetration times, rates of diffusion and the degradation
**Material of gloves**
Hand protection when handling the product at room temperature:
Butyl rubber - IIR: thickness ≥0,5mm; breakthrough time ≥480min.
Fluorinated rubber - FKM: thickness ≥0,4mm; breakthrough time ≥480min.
Recommendation: contaminated gloves should be disposed of.
The selection of the suitable gloves does not only depend on the material. Further marks of quality vary from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to application.
**Penetration time of glove material**
≥480 minutes
The breakthrough times according to EN 374 Part III do not always apply under real conditions. A maximum usage time corresponding to 50% of the breakthrough time is recommended.
**Eye/face protection**



Safety glasses with side-shields (frame goggles) (e.g. EN 166)

(Contd. on page 13)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 12)

**Body protection:**



Chemically resistant, protective work clothing (EN 14605) and boots.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **General Information** | |
| **Physical state** | Viscous liquid |
| **Colour:** | Colourless |
| **Odour:** | Characteristic |
| **Odour threshold:** | Not determined |
| **Melting point/freezing point:** | Not determined |
| **Boiling point or initial boiling point and boiling range** | Not determined |
| **Flammability** | Flammable. |
| **Lower and upper explosion limit** | |
| **Lower:** | Not determined |
| **Upper:** | Not determined |
| **Flash point:** | 30 °C |
| **Auto-ignition temperature:** | Not specified |
| **Decomposition temperature:** | Not determined |
| **pH** | Not determined |
| **Viscosity:** | |
| **Kinematic viscosity** | Not determined |
| **Dynamic:** | Not determined |
| **Solubility** | |
| **water:** | Not miscible |
| **Partition coefficient n-octanol/water (log value)** | Not determined |
| **Vapour pressure:** | Not determined |
| **Density and/or relative density** | |
| **Density at 20 °C:** | 0.99 g/cm³ |
| **Relative density** | Not determined |
| **Vapour density** | Not determined |

### 9.2 Other information

| | |
|---|---|
| **Appearance:** | |
| **Form:** | Liquid |
| **Important information on protection of health and environment, and on safety.** | |
| **Ignition temperature:** | Product is not selfigniting. |
| **Explosive properties:** | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| **Solvent content:** | |
| **VOC (EC)** | ≥3.39-<5.26 % |
| **Change in condition** | Not applicable |
| **Fusion temperature / range:** | Not applicable |
| **Oxidising properties** | Not oxidising |

(Contd. on page 14)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 13)

| | |
|---|---|
| **Evaporation rate** | Not determined |
| **Information with regard to physical hazard classes** | |
| **Explosives** | Void |
| **Flammable gases** | Void |
| **Aerosols** | Void |
| **Oxidising gases** | Void |
| **Gases under pressure** | Void |
| **Flammable liquids** | Flammable liquid and vapour. |
| **Flammable solids** | Void |
| **Self-reactive substances and mixtures** | Void |
| **Pyrophoric liquids** | Void |
| **Pyrophoric solids** | Void |
| **Self-heating substances and mixtures** | Void |
| **Substances and mixtures, which emit flammable gases in contact with water** | Void |
| **Oxidising liquids** | Void |
| **Oxidising solids** | Void |
| **Organic peroxides** | Void |
| **Corrosive to metals** | Void |
| **Desensitised explosives** | Void |

## SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.
**10.2 Chemical stability**
**Thermal decomposition / conditions to be avoided** Stable at environment temperature.
**10.3 Possibility of hazardous reactions** No dangerous reactions known.
**10.4 Conditions to avoid** Avoid heat, sparkles, naked flame or other sources of ignition.
**10.5 Incompatible materials** No further relevant information available.
**10.6 Hazardous decomposition products**
Carbon dioxide ($CO_2$)
Carbon monoxide (CO)

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## SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
**Acute toxicity** Based on available data, the classification criteria are not met.
**LD/LC50 values relevant for classification:**
For the calculation of the ATEmix value for acute toxicity by inhalation (vapours), the calculation formula for mixtures laid down in Regulation (EC) No 1272/2008 (CLP) was applied.
For substances classified as acute toxicity by inhalation (vapours) Category 4, the converted ATE point estimate of 11 was used, and for substances classified as acute toxicity by inhalation (vapours) Category 3, the converted ATE point estimate of 3 was used, in accordance with Annex I of the CLP Regulation.
Based on the available classifications and toxicological information in line with the provisions of CLP, the final ATEmix (inhalation, vapours) value of the product was calculated.

| | | |
|---|---|---|
| Dermal | ATEmix | 3,333 mg/kg |
| Inhalative | ATEmix | 21.05 mg/l |

(Contd. on page 15)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 14)

| | | |
|---|---|---|
| **Reaction mass of ethylbenzene and m-xylene and p-xylene** | | |
| Inhalative | LC50(4h) | 27,124 mg/m³ air (rat) |
| **CAS: 140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate** | | |
| Oral | LD50 | >2,000 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rat) |
| **CAS: 108-65-6 2-methoxy-1-methylethyl acetate** | | |
| Oral | LD50 | 6,190 mg/kg (rat) ((OECD 401)) |
| Dermal | LD50 | >5,000 mg/kg (rabbit) ((OECD 402)) |
| Inhalative | LC50 (4h) | >1,728 ppm (rat) ((OECD 403)) |
| **CAS: 1330-20-7 xylene, mixture of isomers** | | |
| Inhalative | LC50(4h) | 27,124 mg/m³ air (rat) |
| **CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate** | | |
| Oral | LD50 | 4,814 mg/kg (rat) |
| Dermal | LD50 | 7,000 mg/kg (rat) |
| Inhalative | LC50(4h) | 0.031 mg/l (rat) |
| **CAS: 100-41-4 ethylbenzene** | | |
| Inhalative | LC50(4h) | 17,629 mg/m³ air (rat) |
| **CAS: 872-50-4 1-methyl-2-pyrrolidone** | | |
| Oral | LD50 | 4,150 mg/kg (rat) ((OECD 401)) |
| Dermal | LD50 | >5,000 mg/kg (rat) ((OECD 402)) |
| Inhalative | LC50/4 h (vapour) | >5.1 mg/l (rat) ((OECD 403)) |

**Specific symptoms in biological assay:**
**Skin corrosion/irritation** Causes skin irritation.
**Serious eye damage/irritation** Causes serious eye irritation.
**Respiratory or skin sensitisation**
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
**Germ cell mutagenicity** Based on available data, the classification criteria are not met.
**Carcinogenicity** Based on available data, the classification criteria are not met.
**Reproductive toxicity** Based on available data, the classification criteria are not met.
**STOT-single exposure**
The product is classified as Specific Target Organ Toxicity after single exposure Category 3
May cause respiratory irritation.
**STOT-repeated exposure**
STOT Repeated Exposure Category 2
May cause damage to organs through prolonged or repeated exposure.
**Aspiration hazard**
The product is classified Aspiration toxicity Category 1
May be fatal if swallowed and enters airways.
**Additional toxicological information:**
**Sensitisation** Sensitization possible through skin contact
**11.2 Information on other hazards**
**Endocrine disrupting properties**
The product does not contain substances included in the list established in accordance with Article 59(1) of REACH for endocrine disrupting properties or has not been identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or

(Contd. on page 16)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 15)

Commission Regulation (EU) 2018/605 at a concentration equal to or higher than 0.1%.

None of the ingredients is listed.

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## SECTION 12: Ecological information

### 12.1 Toxicity

| | |
|---|---|
| **Aquatic toxicity:** | |
| **Reaction mass of ethylbenzene and m-xylene and p-xylene** | |
| EC50 (72h) | 4.6-4.9 mg/l (algae) |
| EC50 (48h) | 10.389 mg/l (Daphnia magna) |
| LC50(96h) | >2.6 mg/l (fish) |
| **CAS: 140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate** | |
| EC50 (72h) | 29-43 mg/l (aquatic algae and cyanobacteria) |
| EC50 (48h) | 193 mg/l (aquatic invertebrates) |
| LC0 | 70.7 mg/l (fish) |
| NOEC(72h) | 12.5 mg/l (aquatic algae and cyanobacteria) |
| **CAS: 108-65-6 2-methoxy-1-methylethyl acetate** | |
| EC50 (48h) | >500 mg/l (daphnia magna) |
| LC50(96h) | 100-180 mg/l (Oncorhynchus mykiss) |
| NOEC (21d) | 100 mg/l (aquatic invertebrates) |
| NOEC (14d) | 47.5 mg/l (fish) |
| **CAS: 1330-20-7 xylene, mixture of isomers** | |
| EC50 (72h) | 4.6-4.9 mg/l (aquatic algae and cyanobacteria) |
| NOEC (21d) | 1.57 mg/l (aquatic invertebrates) |
| LC50(48h) | 8.5 mg/l (crustaceans) |
| **CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate** | |
| EC50 (72h) | 4.8 mg/l (Daphnia magna) |
| | 70 mg/l (algae) |
| EC50 (48h) | 27 mg/l (aquatic invertebrates) |
| LC50(96h) | 208 mg/l (fish) |
| LC0 | 72-208 mg/l (fish) |
| NOEC(72h) | 4.4 mg/l (aquatic algae and cyanobacteria) |
| **CAS: 100-41-4 ethylbenzene** | |
| EC50 (72h) | 3.6 mg/l (Pseudokirchneriella subcapitata) |
| EC50 (48h) | 1.8 mg/l (Daphnia magna) |
| LC50(96h) | 4.2-5.1 mg/l (Rainbow Trout) |
| NOEC (21d) | 1 mg/l (Ceriodaphnia sp.) |
| LC50(48h) | 8.78-75 mg/l (crustaceans) |
| | 6.4 mg/l (fish) |
| LC50(24h) | 7 mg/l (fish) |

(Contd. on page 17)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 16)

| CAS: 872-50-4 1-methyl-2-pyrrolidone | |
|---|---|
| EC50 (72h) | 600.5 mg/l (aquatic algae and cyanobacteria) |
| NOEC (21d) | 12.5 mg/l (daphnia magna) (Daphnia magna Reproduction Test) |
| EC10 (96h) | 92.6 mg/L (aquatic algae and cyanobacteria) |

**12.2 Persistence and degradability** No further relevant information available.
**12.3 Bioaccumulative potential** No further relevant information available.
**12.4 Mobility in soil** No further relevant information available.
**12.5 Results of PBT and vPvB assessment**
The product does not contain ingredients that are considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative at levels of 0.1% or higher according to REACH, Annex XIII.
**PBT:** Not applicable
**vPvB:** Not applicable
**12.6 Endocrine disrupting properties**
The product does not contain substances included in the list established in accordance with Article 59(1) of REACH for endocrine disrupting properties or has not been identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or higher than 0.1%.
**12.7 Other adverse effects**
**Remark:** Harmful to fish
**Additional ecological information:**
**General notes:**
The product contains materials that are harmful to the environment.
Harmful to aquatic organisms
Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**
**Recommendation**



Dispose according to National Regulations.



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

| European waste catalogue | |
|---|---|
| HP3 | Flammable |
| HP4 | Irritant - skin irritation and eye damage |
| HP5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP6 | Acute Toxicity |
| HP14 | Ecotoxic |

(Contd. on page 18)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 17)

**Uncleaned packaging:**
**Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

**14.1 UN number or ID number**
**ADR, IMDG, IATA** UN1866
**14.2 UN proper shipping name**
**ADR** UN1866 RESIN SOLUTION
**IMDG, IATA** RESIN SOLUTION
**14.3 Transport hazard class(es)**

**ADR, IMDG, IATA**



**Class** 3 Flammable liquids.
**Label** 3
**14.4 Packing group**
**ADR, IMDG, IATA** III
**14.5 Environmental hazards:**
**Marine pollutant:** No
**14.6 Special precautions for user** Warning: Flammable liquids.
**Hazard identification number (Kemler code):** 30
**EMS Number:** F-E,S-E
**Stowage Category** A
**14.7 Maritime transport in bulk according to IMO instruments** Not applicable

**Transport/Additional information:**

**ADR**
**Limited quantities (LQ)** 5L


Limited Quantity Marking.

**Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
**Transport category** 3
**Tunnel restriction code** D/E

**IMDG**
**Limited quantities (LQ)** 5L

(Contd. on page 19)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 18)


Limited Quantity Marking.

**Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

**UN "Model Regulation":** UN 1866 RESIN SOLUTION, 3, III

* 
## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
REACH Regulation 1907/2006/EC
Regulation (EU) 2020/878
CLP Regulation 1272/2008/EC
Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.
Council Directive 94/33/EC on the protection of young people at work, as ammended.
Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as ammended

**Directive 2012/18/EU**
**Named dangerous substances - ANNEX I** The substance is not included in Annex I.
**Seveso category** P5c FLAMMABLE LIQUIDS
**Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
**Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 74

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.

**REGULATION (EU) 2019/1148**

**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors**
None of the ingredients is listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
None of the ingredients is listed.

**National regulations:** None

**Other regulations, limitations and prohibitive regulations**

**Substances of very high concern (SVHC) according to REACH, Article 57**
It doesn't contain substances of very high concern (SVHC).

(Contd. on page 20)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 19)

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H360D May damage the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

**Training hints**

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

| **Classification according to Regulation (EC) No 1272/2008** | |
|---|---|
| Flammable liquids | Bridging principles |
| Skin corrosion/irritation<br>Serious eye damage/irritation<br>Respiratory sensitisation<br>Skin sensitisation<br>Specific target organ toxicity (single exposure)<br>Specific target organ toxicity (repeated exposure)<br>Hazardous to the aquatic environment - long-term (chronic) aquatic hazard | The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. |
| Aspiration hazard | Expert judgement |

**Department issuing SDS:**

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**Version number of previous version:** 5

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association

(Contd. on page 21)

**Safety data sheet**
**complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2026 Version number 6 (replaces version 5) Revision: 21.04.2026

**Trade name:** PENECOAT™ CLEAR MAT FINISH

(Contd. of page 20)

GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3