

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

Printing date 11.09.2025

Version number 3 (replaces version 2)

Revision: 11.09.2025

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

**1.1 Product identifier****Trade name:** KLB-SYSTEM POLYURETHAN PU 410 Component A**1.2 Relevant identified uses of the substance or mixture and uses advised against****Sector of Use**

SU19 Building and construction work

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**Application of the substance / the mixture:**

Coating

Polyurethane resin

**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

\* **SECTION 2: Hazards identification**

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

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

**2.2 Label elements****Labelling according to Regulation EC No 1272/2008 CLP:** Void**Hazard pictograms:** Void**Signal word:** Void**Hazard statements:** Void**Additional information:**

EUH208 Contains benzyl alcohol. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**2.3 Other hazards****Results of PBT and vPvB assessment****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:**

|                                                                                                    |                                                                                                                |         |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------|
| CAS: 77-99-6<br>EINECS: 201-074-9                                                                  | propylidynetrimethanol<br>⚠ Repr. 2, H361                                                                      | <2.5%   |
| CAS: 100-51-6<br>EINECS: 202-859-9<br>Index number: 603-057-00-5<br>Reg.nr.: 01-2119492630-38-XXXX | benzyl alcohol<br>⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1B, H317<br>ATE: LD50 oral: 1,200 mg/kg | 0.1-<1% |

**SVHC**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (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:** No special measures required.

**After inhalation:** Supply fresh air; consult doctor in case of discomfort.

**After skin contact:** Generally the product does not irritate the skin.

**After eye contact:** Wash the eyes under running water for a long time and open the eyelids.

**After swallowing:** If symptoms persist consult doctor.

**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:** Use fire extinguishing methods suitable to surrounding conditions.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

**5.3 Advice for firefighters**

**Protective equipment:** Use any breathing apparatus.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation.

**6.2 Environmental precautions:**

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:**

Collected with liquid binders. (sand, pyrite deposits, acid binders, general binders, sawdust).

**6.4 Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.

No special measures required.

**Information about fire - and explosion protection:** No special measures required.

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

#### Storage:

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** None.

### 7.3 Specific end use(s) No further relevant information available.

## \* SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### DNELs

(CAS: 100-51-6) benzyl alcohol

Consumers:

Short-term exposure, acute systemic effects, oral: 20 mg/kg

Long-term exposure, systemic effects, oral: 4 mg/kg

Short-term exposure, systemic effects, inhalation: 27 mg/m<sup>3</sup>

Long-term exposure, systemic effects, inhalation: 5.4 mg/m<sup>3</sup>

Workers:

Short-term exposure, systemic effects, inhalation: 110 mg/m<sup>3</sup>

Long-term exposure, systemic effects, inhalation: 22 mg/m<sup>3</sup>

Short-term exposure, systemic effects, dermal: 40 mg/kg

Long-term exposure, systemic effects, dermal: 8 mg/kg

(CAS: 77-99-6) propyldinitrimethanol

Employees:

Long-term, systemic effects, by inhalation: 3.3 mg/m<sup>3</sup>

Long-term, systemic effects, dermal: 0.94 mg/kg bw/day

Consumers:

Long-term, systemic effects via inhalation: 0.58 mg/m<sup>3</sup>

Long-term, systemic effects, dermal: 0.34 mg/kg bw/day

Long-term, systemic effects, oral: 0.34 mg/kg bw/day

#### PNECs

(CAS: 100-51-6) benzyl alcohol

Soil: 0.456 mg/kg

Sewage treatment plant: 39 mg/l

Sediment marine water: 0,527 mg/kg

Marine water: 0.1 mg/l

Sediment fresh water: 5,27 mg/kg

Fresh water: 1 mg/l

Intermittent releases: 2.3 mg/L

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**Additional information:** The valid lists during production were used as a basis.

## 8.2 Exposure controls

**8.2.1. Appropriate engineering controls** No other recommendations, see chapter 7.

### Individual protection measures, such as personal protective equipment

**General protective and hygienic measures:** Do not eat, drink or smoke while using the product.

**Respiratory protection:** Not required.

#### Hand protection

Use gloves made from durable material (e.g. Nitril) - possibly lined - for greater comfort.



Wear suitable gloves (EN 374)

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

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.

Butyl rubber, BR - 0,7 mm, Nitrile rubber, NBR- 0,4 mm

#### Penetration time of glove material

The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.

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



Goggles recommended during refilling

Tightly sealed goggles (EN 166).

#### Body protection:



Protective work clothing

\*

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

|                                      |                                  |
|--------------------------------------|----------------------------------|
| <b>Physical state</b>                | Liquid                           |
| <b>Colour:</b>                       | Different according to colouring |
| <b>Odour:</b>                        | Not determined                   |
| <b>Odour threshold:</b>              | Not determined                   |
| <b>Melting point/freezing point:</b> | Not determined                   |
| <b>Flammability</b>                  | Not applicable                   |

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**Lower and upper explosion limit****Lower:** Not determined**Upper:** Not determined**Flash point:** >100 °C

Not Flammable

**Auto-ignition temperature:** 420 °C**Decomposition temperature:** Not determined**pH** Not determined**Viscosity:****Kinematic viscosity** Not determined**Dynamic at 20 °C:** 5.000 mPas (DIN EN ISO 3219)**Solubility****water:** Not soluble or slightly soluble**Partition coefficient n-octanol/water (log value)** Not determined**Vapour pressure at 20 °C:** 3 hPa (Polyalkohol mit Ester- und Ether-Gruppen)**Vapour pressure at 50 °C:** 11 hPa**Density and/or relative density****Density at 20 °C:** 1.52 g/cm<sup>3</sup> ((DIN EN ISO 2811-2)**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 does not present an explosion hazard.**Solvent content:****VOC (EC)** 2.5 g/l**Fusion temperature / range:****Oxidising properties** Not oxidising**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** Void**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

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**Corrosive to metals**  
**Desensitised explosives**

Void  
 Void

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### SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability**

**Thermal decomposition / conditions to be avoided**

No decomposition occurs if used according to specifications.

**10.3 Possibility of hazardous reactions** Exothermic polymerisation

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials** No further relevant information available.

**10.6 Hazardous decomposition products** No dangerous decomposition products known.

\*

### 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:**

**CAS: 100-51-6 benzyl alcohol**

|            |           |                                        |
|------------|-----------|----------------------------------------|
| Oral       | LD50      | 1,200 mg/kg (ATE)<br>1,620 mg/kg (rat) |
| Dermal     | LD50      | >2,000 mg/kg (rabbit)                  |
| Inhalative | LC50(4h)  | 4,178 mg/m <sup>3</sup> air (rat)      |
|            | LC50(14d) | 5.1 mg/l (freshwater fish)             |

**CAS: 77-99-6 propylidynetrimethanol**

|            |      |                                               |
|------------|------|-----------------------------------------------|
| Oral       | LD50 | 14,100 mg/kg (rat)                            |
|            | EBC5 | >1,000 mg/l (Pseudokirchneriella subcapitata) |
| Inhalative | LC50 | 850 mg/m <sup>3</sup> (rat)                   |

**Specific symptoms in biological assay:**

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**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** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**Additional toxicological information:**

**Repeated dose toxicity** Based on available data, the classification criteria are not met.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

The product does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with 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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None of the ingredients is listed.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

##### CAS: 100-51-6 benzyl alcohol

|            |                                    |
|------------|------------------------------------|
| EC50 (72h) | 759 mg/l (algae)                   |
| EC50 (48h) | 230 mg/l (Daphnia magna)           |
| LC50 (96h) | >100 mg/l (Pimephales promelas)    |
| EC10(21d)  | 54 mg/l (freshwater invertebrates) |
| NOEC(72h)  | 310 mg/l (algae)                   |

##### CAS: 77-99-6 propylidynetrimethanol

|            |                             |
|------------|-----------------------------|
| EC50 (48h) | 13 mg/l (daphnia magna)     |
| LC50 (96h) | >1,000 mg/l (alb)           |
| NOEC (21d) | >1,000 mg/l (daphnia magna) |

**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

**PBT:** Not applicable.

**vPvB:** Not applicable.

#### 12.6 Endocrine disrupting properties

For information on endocrine disruption properties, see sections 2.3 & 11.2.

#### 12.7 Other adverse effects

#### Additional ecological information:

##### General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

\*

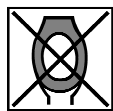
## SECTION 13: Disposal considerations

### 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.

#### Waste disposal key:

08 04 09\* waste adhesives and sealants containing organic solvents or other hazardous substances

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**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information**

|                                                                     |                                                           |
|---------------------------------------------------------------------|-----------------------------------------------------------|
| <b>14.1 UN number or ID number</b>                                  | Unenforceable. Not classified as dangerous for transport. |
| <b>ADR, ADN, IMDG, IATA</b>                                         | Void                                                      |
| <b>14.2 UN proper shipping name</b>                                 |                                                           |
| <b>ADR, ADN, IMDG, IATA</b>                                         | Void                                                      |
| <b>14.3 Transport hazard class(es)</b>                              |                                                           |
| <b>ADR, ADN, IMDG, IATA</b>                                         |                                                           |
| <b>Class</b>                                                        | Void                                                      |
| <b>14.4 Packing group</b>                                           |                                                           |
| <b>ADR, IMDG, IATA</b>                                              | Void                                                      |
| <b>14.5 Environmental hazards:</b>                                  | Not applicable.                                           |
| <b>14.6 Special precautions for user</b>                            | Not applicable.                                           |
| <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable.                                           |
| <b>UN "Model Regulation":</b>                                       | Void                                                      |

\*

**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.**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.

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**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:**

**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).

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

\*

## 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

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

### 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.

### Department issuing SDS:



SUSTCHEM S.A.

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**Date of previous version:** 10.07.2023

**Version number of previous version:** 2

### 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

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

ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1B: Skin sensitisation – Category 1B

Repr. 2: Reproductive toxicity – Category 2