

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

Printing date 21.03.2025

Version number 3 (replaces version 2)

Revision: 21.03.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** PENECRYL™ ELASTIC**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: Cement-Based mortar plasticizer and bonding enhancer**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.MH. 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**Precautionary statements**

P102 Keep out of reach of children.

Additional information:

EUH208 Contains 2-methylisothiazol-3(2H)-one, Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6), 1,2-benzisothiazol-3(2H)-one.

May produce an allergic reaction.

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:**

| | | |
|---|---|-------------------|
| CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6 | 1,2-benzisothiazol-3(2H)-one ⚠️ Acute Tox. 2, H330; ⚠️ Eye Dam. 1, H318; ⚠️ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠️ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317 ATE: LD50 oral: 450 mg/kg LC50/4h (dusts and mists) inhalative: 0.21 mg/l Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.036 % | <0.03% |
| CAS: 2682-20-4 EINECS: 220-239-6 Index number: 613-326-00-9 | 2-methylisothiazol-3(2H)-one ⚠️ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠️ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠️ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); ⚠️ Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 % | <0.0015% |
| CAS: 55965-84-9 EC number: 611-341-5 Index number: 613-167-00-5 | Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) ⚠️ Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; ⚠️ Skin Corr. 1C, H314; Eye Dam. 1, H318; ⚠️ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); ⚠️ Skin Sens. 1A, H317, EUH071 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 % | ≥0.00025-<0.0015% |

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)

SECTION 4: First aid measures**4.1 Description of first aid measures****General information:**

No special measures required.

Take affected persons out into the fresh air.

After inhalation:

If breathing is difficult, remove to fresh air. Restore breathing. Keep warm and quiet.

In case of unconsciousness place patient stably in side position for transportation.

Seek medical treatment in case of complaints.

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After skin contact:

Rinse with plenty of water and soap.

In case of discomfort, consult a doctor.

After eye contact:

Rinse opened eye for at least 15 minutes under running water.

Remove contact lenses and continue rinsing for several minutes

If symptoms persist, consult a doctor.

Avoid strong water jet-risk of cornea damage, consult a doctor.

After swallowing:

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Consult the doctor immediately and show the label or this Safety Data Sheet.

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.

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:**

During fire-fighting wear suitable respiratory device (SCBA) with a full face-piece operated in positive pressure mode.

Cool closed containers exposed to fire by spraying water.

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:**

Ensure adequate ventilation.

Avoid inhalation of vapors.

Avoid contact with skin and eyes.

6.1.1 For non-emergency personnel Avoid contact with dripping or leaking material.**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 product to reach sewage system or any water course.**6.3 Methods and material for containment and cleaning up:**

Contain leakage if possible.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with the eyes and skin

Avoid inhaling vapors.

Do not eat, drink or smoke when using this product.

Wash your hands before each break and after finishing work.

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

7.2 Conditions for safe storage, including any incompatibilities

Storage: Store the product in closed original containers in a well-ventilated room.

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Keep in appropriately labelled containers.

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

Further information about storage conditions:

Recommended storage temperature: 5-35 °C

Protect from frost.

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.

Additional information: The lists valid during the making were used as basis.

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:

Do not eat, drink or smoke while using the product.

Avoid contact with skin and eyes.

Keep away from foodstuffs, beverages and feed.

Do not breathe vapours or mists.

Wash hands before breaks and at the end of work.

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:

Use suitable respiratory protective device if high degree of fiber fly is experienced



In conditions of inadequate ventilation, use an appropriate respirator.

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Hand protection

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye/face protection

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

Body protection:

Use appropriate protective clothing such as welder's aprons & gloves when welding or burning.

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

| | |
|--|-------------------------|
| Physical state | Liquid |
| Colour: | White |
| Odour: | Characteristic of ester |
| Odour threshold: | Not determined |
| Melting point/freezing point: | Not determined |
| Flammability | Not applicable |
| Lower and upper explosion limit | |
| Lower: | Not determined |
| Upper: | Not determined |
| Flash point: | Not applicable |
| Auto-ignition temperature: | Not specified |
| Decomposition temperature: | Not determined |
| pH at 20 °C | 8 |
| Viscosity: | |
| Kinematic viscosity | Not determined |
| Dynamic at 20 °C: | 100 - 800 mPas |
| Solubility | |
| water: | Dispersible |
| Partition coefficient n-octanol/water (log value) | Not determined |
| Vapour pressure at 20 °C: | 23 hPa |

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Density and/or relative density

| | |
|--------------------------|---------------------------|
| Density at 20 °C: | 0.9-1.1 g/cm ³ |
| Relative density | Not determined |
| Vapour density | Not determined |

9.2 Other information**Appearance:****Form:** Aqueous Dispersion**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.**Fusion temperature / range:****Oxidising properties** Not classified as an oxidizer according to CLP Regulation 1272/2008/EC.**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 |
| 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**

No decomposition if used and stored according to specifications.

Stable at environment temperature.

10.3 Possibility of hazardous reactions No dangerous reactions known.**10.4 Conditions to avoid** Avoid high temperatures and direct sunlight.**10.5 Incompatible materials** No further relevant information available.**10.6 Hazardous decomposition products** No dangerous decomposition products known.

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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:****CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one**

| | | |
|------------|---------------------------|------------------------------------|
| Oral | LD50 | 450 mg/kg (ATE) 670 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rat) |
| Inhalative | LC50/4h (dusts and mists) | 0.21 mg/l (ATE) |

CAS: 2682-20-4 2-methylisothiazol-3(2H)-one

| | | |
|------------|-------------------|---|
| Oral | LD50 | 120-249 mg/kg (rat) |
| Dermal | LD50 | 242 mg/kg (rat) (Acute Dermal Toxicity) |
| Inhalative | LC50/4 h (vapour) | 0.13 mg/l (rat) (Acute Inhalation Toxicity) |

CAS: 55965-84-9 Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6)

| | | |
|--------|------|--|
| Oral | LD50 | 66 mg/kg (rat) (Acute Oral Toxicity) |
| Dermal | LD50 | >141 mg/kg (rat) (Acute Dermal Toxicity) |

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:**

No toxicological data available on the product itself. The product contains no substances known to be hazardous to health in concentrations which need to be taken into account.

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 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%.

None of the ingredients is listed.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one

| | |
|------------|-------------------------------|
| EC50 (72h) | 110 mg/l (algae) |
| EC50 (48h) | 2.9-2.94 mg/l (Daphnia magna) |
| LC50 (96h) | 22 mg/l (fish) |

CAS: 2682-20-4 2-methylisothiazol-3(2H)-one

| | |
|------------|---------------------------------|
| EC50 (72h) | 0.103 mg/l (algae) |
| EC50 (48h) | 0.934 mg/l (Daphnia magna) |
| LC50 (96h) | 4.77 mg/l (Oncorhynchus mykiss) |
| NOEC (21d) | 0.044 mg/l (Daphnia magna) |
| NOEC | 4.93 mg/L (Pimephales promelas) |

CAS: 55965-84-9 Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6)

| | |
|--------------|---|
| EC50 (72h) | 0.048 mg/l (Pseudokirchneriella subcapitata) (Freshwater Alga and Cyanobacteria, Grow Inhibition) |
| EC50 (48h) | 0.1 mg/l (Daphnia) (Daphnia sp. Acute Immobilisation Test) |
| LC50 (96h) | 0.22 mg/l (Rainbow Trout) (Fish, Acute Toxicity Test) |
| NOEC (21d) | 0.004 mg/l (Daphnia) (Daphnia magna Reproduction Test) |
| NOEC r (72h) | 0.0012 mg/l (Pseudokirchneriella subcapitata) |

12.2 Persistence and degradability

Given the properties of the individual components, the product is evaluated according to the OECD-classification as not easily biodegradable.

- Physicochemical elimination capability:

98%, Method: OECD TG 302.

Remarks: The product can be eliminated from the water by abiotic processes e.g. by absorption in biological sludge.

12.3 Bioaccumulative potential Not bioaccumulative.

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 No further relevant information available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation



Dispose according to National Regulations.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

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

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 amended

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.

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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).

15.2 Chemical safety assessment:

Has been performed for the main ingredients of the product.

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

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H310 Fatal in contact with skin.
- 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.
- H330 Fatal if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.

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:

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 REACH & Chemical Services Department
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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)

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. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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