# Safety data sheet
## complying with Regulation 1907/2006/EC (REACH Regulation), EU 2015/830 and Regulation No 1272/2008/EC (CLP)

Printing date 13.12.2017 Version number 4 Revision: 13.12.2017

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

**1.1 Product identifier**

**Trade name:** SiMP® Seal 30

**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:** Adhesive Sealant

**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
**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 N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.
**2.3 Other hazards**
**Results of PBT and vPvB assessment**
**PBT:** Not applicable.
**vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

**3.2 Chemical characterisation: Mixtures**
**Description:** Mixture

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| Ingredients according Regulation (EU) 830/2015: | | |
|---|---|---|
| CAS: 78-40-0<br>EINECS: 201-114-5<br>Index number: 015-013-00-7<br>Reg.nr.: 01-2119492852-28-XXXX | triethyl phosphate<br>Acute Tox. 4, H302; Eye Irrit. 2, H319 | 5-6% |
| CAS: 2768-02-7<br>EINECS: 220-449-8<br>Reg.nr.: 01-2119513215-52-XXXX | trimethoxyvinylsilane<br>Flam. Liq. 3, H226; Acute Tox. 4, H332 | 3-3.5% |
| CAS: 1760-24-3<br>EINECS: 217-164-6<br>Reg.nr.: 01-2119970215-39-XXXX | N-(3-(trimethoxysilyl)propyl)ethylenediamine<br>Eye Dam. 1, H318; Skin Sens. 1, H317 | 0.8-0.9% |

**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.
Take affected persons out into the fresh air.
**After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.
Seek medical treatment in case of complaints.
**After skin contact:** Generally the product does not irritate the skin.
**After eye contact:**
Rinse opened eye for several minutes under running water. 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.
Seek immediate medical advice.
**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:**
Carbon dioxide, foam, chemical powder. For losses and product leaks that are not burned, it can be used water spray jet to disperse flammable vapors and protect carers to inhibit leakage.
**For safety reasons unsuitable extinguishing agents:**
Do not use water pressure. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.
**5.2 Special hazards arising from the substance or mixture** No further relevant information available.
**5.3 Advice for firefighters**
General Information:
Use water jets to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to

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prevent it from draining into the sewer system.
Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
Equipment:
Normal clothing for firefighting, including a breathing open-circuit compressed air breathing apparatus (EN 137), fireproof clothing (EN469), fire-proof gloves (EN 659) and boots Firefighters (HO A29 or A30).
**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:**
Goggles and/ or face shield, if contact with eyes or splashes are anticipated.
Avoid contact with skin and eyes.
Avoid the contact with spilled material.
**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
**6.3 Methods and material for containment and cleaning up:** Pick up mechanically.
**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.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**
Avoid contact with skin, eyes and clothing.
Use adequate personal protective equipment as required. For more information regarding protective equipment see section 8.
Avoid prolonged exposure with skin
**Information about fire - and explosion protection:**
Keep it in a dry, cool, well ventilated, fixed in advance place, away from sources of heat, flames, ignition and direct sunlight.


Keep ignition sources away - Do not smoke.

**7.2 Conditions for safe storage, including any incompatibilities**
**Storage:** Store in cool, dry conditions in well sealed receptacles.
**Requirements to be met by storerooms and receptacles:** Store in a cool location.
**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.



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## 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

**Personal protective equipment**
**General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
**Respiratory protection:**



Use suitable respiratory protective device in case of insufficient ventilation.

In case of exceeding the threshold value (eg, TLV-TWA) of the substance or one or more of the substances present in the product, it is
advisable to wear a mask with filter type A for organic vapors, the class (1, 2 or 3) must be chosen according to the limit concentration of use
(1000, 5000 or 10000 ppm) (ref. standard EN 14387).
**Protection of hands:**



Protective gloves

**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. 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 the application.
NBR (Nitrile rubber)
0.4mm thickness, permeation time> 480 min
Contaminated gloves should be removed.
**Penetration time of glove material**
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
**Eye protection:**



Safety glasses

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**Body protection:**


Boots


Protective work clothing

Use working clothes with long sleeves and safety footwear for professional use category I (ref. Community Directive 89/686 / CEE and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

**General Information**

**Appearance:**

| | |
|---|---|
| **Form:** | Paste |
| **Colour:** | Different according to colouring |
| **Odour:** | Characteristic |
| **Odour threshold:** | Not determined |
| **pH value:** | Not determined |
| **Flash point:** | Not applicable |
| **Flammability (solid, gas):** | Not applicable |
| **Auto-ignition temperature:** | Not determined |
| **Decomposition temperature:** | Not determined |
| **Auto-ignition temperature:** | Product is not selfigniting. |
| **Explosive properties:** | Product does not present an explosion hazard. |
| **Explosion limits:** | |
| **Lower:** | Not determined |
| **Upper:** | Not determined |
| **Oxidising properties** | Not considered as oxidising. |
| **Vapour pressure:** | Not determined |
| **Density at 20 °C:** | 1,55 Kg/L |
| **Relative density** | Not determined |
| **Vapour density** | Not determined |
| **Evaporation rate** | Not determined |

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**Solubility in / Miscibility with water:** Insoluble

**Partition coefficient: n-octanol/water:** Not determined

**Viscosity:**
**Dynamic at 20 °C:** 120000-200000 cps
**Kinematic:** Not determined

**Solvent content:**

**VOC (EC)** 5.00 % - 83.00 g/l
**9.2 Other information** No further relevant information available.

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
Product reacts slowly with water (ambient humidity) turning into a rubbery solid and producing methanol.
**10.2 Chemical stability** Material is stable under normal conditions.
**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** Moisture
**10.5 Incompatible materials** Water
**10.6 Hazardous decomposition products** No dangerous decomposition products known.

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**
**Acute toxicity** Based on available data, the classification criteria are not met.

| **LD/LC50 values relevant for classification:** | | |
|---|---|---|
| **ATE (Acute Toxicity Estimates)** | | |
| Oral | LD50 | >13,333 mg/kg (rat) |
| Inhalative | LC50/4 h (vapour) | 560 mg/l (rat) |

| **78-40-0 triethyl phosphate** | | |
|---|---|---|
| Oral | LD50 | >800 mg/kg (rat) |
| **2768-02-7 trimethoxyvinylsilane** | | |
| Oral | LD50 | 7,178 mg/kg (rat) |
| Dermal | LD50 | 3,200 mg/kg (rabbit) |
| Inhalative | LC50/4 h (vapour) | 16.8 mg/l (rat) |

**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.

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**Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
**CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
**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.

## SECTION 12: Ecological information

**12.1 Toxicity**
**Aquatic toxicity:**
VINYLTRIMETHOXYSILANE.
LC50 - Fish. 191 mg/l/96h Oncorhynchus mykiss
NOEC Chronic Algae. 25 mg/l Selenastrum capricornutum
N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE)
LC50 - Fish. 168 mg/l/96h Pimephales promelas
EC50 - Algae. 5 mg/l/72h
TRIETHYL PHOSPHATE
LC50 - Fish. > 100 mg/l/96h Danio rerio
EC50 - Chronic. 900 mg/l/72h Desmodesmus subspicatus
Chronic NOEC shellfish. 31,6 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.
**Additional ecological information:**
**General notes:**
Not known to be hazardous to water.
Generally not hazardous for water
**12.5 Results of PBT and vPvB assessment**
**PBT:** Not applicable.
**vPvB:** Not applicable.
**12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

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



Dispose according to National Regulations.

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Contact manufacturer for recycling information.

**Uncleaned packaging:**
**Recommendation:**
Disposal must be made according to official regulations.
Packaging may be reused or recycled after cleaning.

## SECTION 14: Transport information

| | |
|---|---|
| **14.1 UN-Number** | |
| **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 Transport in bulk according to Annex II of Marpol and the IBC Code** | 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) 2015/830
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** Substance is not 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.



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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**
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

**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 Engineering Ltd
REACH & Chemical Services Department
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**Abbreviations and acronyms:**
ADR: Accord européen sur le transport 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)
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. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1