

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

Printing date 30.11.2018

Version number 3

Revision: 30.11.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** SiMP SEAL 20**Registration number:** Substances contained in the mixture have already registered by the suppliers.**1.2 Relevant identified uses of the substance or mixture and uses advised against****Sector of Use**

SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SU17 General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment

SU19 Building and construction work

Product category

PC1 Adhesives, sealants

PC21 Laboratory chemicals

Process category

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC10 Roller application or brushing

PROC15 Use as laboratory reagent

Environmental release category

ERC2 Formulation into mixture

ERC5 Use at industrial site leading to inclusion into/onto article

ERC8b Widespread use of reactive processing aid (no inclusion into or onto article, indoor)

Application of the substance / the mixture:

One component, methoxy silane-based, adhesive for generic industrial applications.

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

(Contd. on page 2)

GB

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

Printing date 30.11.2018

Version number 3

Revision: 30.11.2018

Trade name: SiMP SEAL 20

(Contd. of page 1)

Hazard pictograms: Void**Signal word:** Void**Hazard statements:** Void**Additional information:**

EUH208 Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

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: consisting of the following components.**Ingredients according Regulation (EU) 830/2015:**

ELINCS: 432-430-3 Index number: 616-200-00-1 Reg.nr.: 01-0000017860-69-XXXX	mixture of: N,N'-ethane-1,2-diylbis(hexanamide); 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide; N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide) Aquatic Chronic 4, H413	≥2.5-<3%
CAS: 2768-02-7 EINECS: 220-449-8 Reg.nr.: 01-2119513215-52-XXXX	trimethoxyvinylsilane ⚠ Acute Tox. 4, H332	≥1.5-<2%
CAS: 1760-24-3 EINECS: 217-164-6 Reg.nr.: 01-2119970215-39-XXXX	N-(3-(trimethoxysilyl)propyl)ethylenediamine ⚠ STOT RE 2, H373; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317	≥0.89-<1%

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.

Immediately remove any clothing soiled by the product.

After inhalation:

Seek medical treatment in case of complaints.

Supply fresh air and to be sure call for a doctor.

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

After skin contact:

Remove contaminated clothing.

In case of skin irritation, consult a physician.

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.

Induce vomiting and call for medical help.

Seek immediate medical advice.

(Contd. on page 3)

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

Printing date 30.11.2018

Version number 3

Revision: 30.11.2018

Trade name: SiMP SEAL 20

(Contd. of page 2)

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Prolonged contact may cause allergic reactions.

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

Fire-extinguishing powder

For safety reasons unsuitable extinguishing agents: Water with full jet**5.2 Special hazards arising from the substance or mixture** No further relevant information available.**5.3 Advice for firefighters****Protective equipment:**

Cool adjacent tanks by spraying water at a safe distance.

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

No special measures required.

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 spilled material.

Goggles and/ or face shield, if contact with eyes or splashes are anticipated.

Avoid contact with skin and eyes.

6.1.1 For non-emergency personnel

Use personal protective equipment.

Ensure sufficient ventilation.

Avoid contact with skin and eyes.

6.1.2 For emergency responders

Wear protective equipment. Keep unprotected persons away.

Use chemicals resistant gloves.

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:** 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**

Keep receptacles tightly sealed.

(Contd. on page 4)

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

Printing date 30.11.2018

Version number 3

Revision: 30.11.2018

Trade name: SiMP SEAL 20

(Contd. of page 3)

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Store in cool, dry place in tightly closed receptacles.

Avoid prolonged exposure with skin

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

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 cool, dry conditions in well sealed receptacles.

Use only containers specifically permitted for this substance/product.

Requirements to be met by storerooms and receptacles:

Store in original container.

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.* **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

N- [3- (TRIMETHYLDYLDYL) PROPYL] ETHYLENEDIAMINE

Consumers:

Inhalation: chronic systemic effect - 8.7 mg / m³.

Skin: Acute systemic effect - 17 mg / kg bw / d.

chronic systemic effect - 2.5 mg / kg bw / d.

Employees:

Inhalation: chronic systemic effect - 35.3 mg / m³.

Skin: Acute & chronic systemic effect - 5 mg / kg bw / d.

BIS (2,2,6,6-TETRAMETHYL-4-PIPERIDYL) SEBACATE

Consumers:

Oral: chronic systemic effect - 1 mg / kg

systemic effect - 1 mg / kg

Inhalation: Acute systemic effect - 1.4 mg / m³chronic systemic incidence - 1,4 mg / m³

Skin: Acute systemic effect - 1 mg / kg

chronic systemic effect - 1 mg / kg

Employees:

Inhalation: chronic & acute systemic effect - 5.6 mg / m³

Skin: chronic & acute systemic effect - 2 mg / kg

VINYLTRIMETHOXYLANE.

Consumers:

(Contd. on page 5)

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

Printing date 30.11.2018

Version number 3

Revision: 30.11.2018

Trade name: SiMP SEAL 20

(Contd. of page 4)

Oral: chronic systemic effect - 0.3 mg / kg / d
 Inhalation: Acute systemic effect - 93.4 mg / m³
 chronic systemic effect - 1.04 mg / m³
 Skin: Acute systemic effect - 26.9 mg / kg / d
 chronic systemic effect - 0.3 mg / kg / d

Employees:

Inhalation: chronic systemic effect - 4.9 mg / m³
 Skin: chronic systemic effect - 0.69 mg / kg / d

PNECs

N- [3- (TRIMETHYLDYLDYL) PROPYL] ETHYLENEDIAMINE

fresh water 0.062 mg / l
 marine water 0,0062 mg / l
 sediment in fresh water 0.22 mg / kg
 sediment in sea water 0,022 mg / kg
 for water, intermittent release of 0.62 mg / l
 for STP microorganisms 25 mg / l
 for the terrestrial compartment 0,0085 mg / kg

VINYLTRIMETHOXYSILANE

fresh water 0.34 mg / l
 marine water 0,034 mg / l
 sediment in fresh water 0.27 mg / kg
 for water, intermittent release of 3.4 mg / l
 for STP micro-organisms 110 mg / l
 for the terrestrial compartment of 0.046 mg / kg

BIS (2,2,6,6-TETRAMETHYL-4-PIPERIDYL) SEBACATE

fresh water 0,005 mg / l
 marine water 0,0005 mg / l
 sediments in fresh water 8.02 mg / kg
 sediment in seawater 0.802 mg / kg
 for micro-organisms STP 1 mg / l
 for the terrestrial compartment of 1,6 mg / kg

8.2 Exposure controls**8.2.1. Appropriate engineering controls** Use of local ventilation is advised.**Personal protective equipment****General protective and hygienic measures:**

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

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

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

Respiratory protection:

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: Not required under normal conditions of use.

(Contd. on page 6)

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

Printing date 30.11.2018

Version number 3

Revision: 30.11.2018

Trade name: SiMP SEAL 20

(Contd. of page 5)

Material of gloves

Butyl rubber

0.4mm thickness, permeation time > 480 min

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:

Tightly sealed goggles

Body protection:

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body 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:	Various colours
Odour:	Characteristic
Odour threshold:	Not determined

pH value:	Not applicable
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined

Flash point: Not Flammable

Flammability (solid, gas): Not determined

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 applicable

Density: Not determined

Relative density at 20 °C: 1.49 g/l

Vapour density: Not applicable

(Contd. on page 7)

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

Printing date 30.11.2018

Version number 3

Revision: 30.11.2018

Trade name: SiMP SEAL 20

(Contd. of page 6)

Evaporation rate Not applicable**Solubility in / Miscibility with water:** Insoluble**Partition coefficient: n-octanol/water:** Not determined**Viscosity:****Dynamic at 20 °C:** 100000 - 150000 cps**Kinematic:** Not applicable**Solvent content:****VOC (EC)** 0**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**

Carbon monoxide

Carbon dioxide

Nitrogen oxides (NO_x)

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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:**

Acute Toxicity:

LC50(Inhalation): > 20 mg/l.

CAS: 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)

CAS: 1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine

Oral	LD50	2295 mg/kg (rat)
Dermal	LD50	>2000 (rabbit)
Inhalative	LC50(4h)	1.49 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.

(Contd. on page 8)

GB

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation),
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Printing date 30.11.2018

Version number 3

Revision: 30.11.2018

Trade name: SiMP SEAL 20

(Contd. of page 7)

Respiratory or skin sensitisation

May produce an allergic reaction.

Contains: N-[3-(TRIMETHOXYSYLYL)PROPYL]ETHYLENEDIAMINE.

CMR effects (carcinogenicity, 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.

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SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:****CAS: 2768-02-7 trimethoxyvinylsilane**

NOEC 25 mg/l (algae)

LC50 (96h) 191 mg/l (fis)

CAS: 1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine

EC50(48h) 81 mg/ml (daphnia magna)

EC50(72h) 126 mg/l (ssu)

LC50(96h) 344 mg/l (Brachydanio rerio)

12.2 Persistence and degradability

N-[3-(TRIMETHOXYSYLYL)PROPYL]ETHYLENEDIAMINE.

NOT rapidly degradable

VINYLTRIMETHOXYSYLANE.

NOT rapidly degradable.

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

Based on available data, the product does not contain PBT or vPvB in an amount greater than 0.1%.

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.

Contact manufacturer for recycling information.

(Contd. on page 9)

GB

Safety data sheet
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EU 2015/830 and Regulation No 1272/2008/EC (CLP)

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Trade name: SiMP SEAL 20

(Contd. of page 8)

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

Constituents of the mixture that fall within the scope of REACH Regulation 1907/2006/EC, have been (pre)-registered.

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** 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**

CAS: 28553-12-0 diisononyl phthalate

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.

(Contd. on page 10)

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

Printing date 30.11.2018

Version number 3

Revision: 30.11.2018

Trade name: SiMP SEAL 20

(Contd. of page 9)

Relevant phrases

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H413 May cause long lasting harmful effects to aquatic life.

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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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)

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

Acute Tox. 4: Acute toxicity – Category 4

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

Skin Sens. 1: Skin sensitisation – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

*** Data compared to the previous version altered.**