

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

Printing date 16.02.2022

Version number 5 (replaces version 4)

Revision: 16.02.2022

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

1.1 Product identifier

Trade name: SiMP CLEAR

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:

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

Hazard pictograms: Void

Signal word: Void

Hazard statements: Void

Additional information:

EUH208 Contains trimethoxyvinylsilane. 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 Mixtures

Description: Mixture: consisting of the following components.

Ingredients according Regulation (EU) 2020/878:

CAS: 28553-12-0	diisononyl phthalate	≥19.5-<21%
EINECS: 249-079-5	substance with a Community workplace exposure limit	
Reg.nr.: 01-2119430798-28-XXXX		

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CAS: 2768-02-7 EINECS: 220-449-8 Index number: 014-049-00-0 Reg.nr.: 01-2119513215-52-XXXX	trimethoxyvinylsilane ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H332; Skin Sens. 1B, H317	≥0.89-<1%
CAS: 52829-07-9 EINECS: 258-207-9 Reg.nr.: 01-2119537297-32-XXXX	bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate ⚠ Acute Tox. 2, H330; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411	≥0.3-<0.35%
CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X	methanol ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	≥0-<0.05%

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

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

After inhalation:

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:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

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

Dry powder

For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

For safety reasons unsuitable extinguishing agents: Water with full jet

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5.2 Special hazards arising from the substance or mixture

In the event of fire and/or explosion do not breathe fumes.

5.3 Advice for firefighters Keep containers cool using water spray.**Protective equipment:**

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).

Use of protective clothes and respiratory device is being recommended in case of fire.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations

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.

Keep people at a distance and upwind.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Ensure adequate ventilation.

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** Use self-contained breathing apparatus and protective clothing.**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:**

Vacuum or sweep up material and place into a suitable disposal container.

Dispose contaminated material as waste according to item 13.

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.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Use adequate personal protective equipment as required. For more information regarding protective equipment see section 8.

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

Avoid contact with skin and eyes.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Prevent the creation of electrostatic charges

7.2 Conditions for safe storage, including any incompatibilities**Storage:** Store in cool, dry conditions in well sealed receptacles.

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Requirements to be met by storerooms and receptacles:

Keep only the original container or in a suitable container for this kind of product

Store away from sources of ignition

Further information about storage conditions: Protect from humidity and water.**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:****CAS: 28553-12-0 diisononyl phthalate**WEL (Great Britain) Long-term value: 5 mg/m³**DNELs**

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | CasNo: 52829-07-9.

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

Dermal: Acute systemic effect - 1 mg/kg

chronic systemic effect - 1 mg/kg

Workers:

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

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

Trimethoxyvinylsilane | CasNo: 2768-02-7.

Consumers:

Oral: chronic systemic effect - 0.3 mg/kg/d

Inhalation: Acute systemic effect - 93.4 mg/m³chronic systemic effect - 1.04 mg/m³

Dermal: Acute systemic effect - 26.9 mg/kg/d

chronic systemic effect - 0.3 mg/kg/d

Workers:

Inhalation: chronic systemic effect - 4.9 mg/m³

Dermal: chronic systemic effect - 0.69 mg/kg/d

PNECs

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | CasNo: 52829-07-9.

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

Trimethoxyvinylsilane | CasNo: 2768-02-7.

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

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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:**

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

Immediately remove all soiled and contaminated clothing.

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

Avoid contact with skin and eyes.

Respiratory protection:

If the limit value (eg, TLV-TWA) of the substance or for one or more of the substances are present in the product, it is advisable to use mask with filter type A for organic vapors. The class (1, 2 or 3) should be chosen according to the limit concentration of use (1000, 5000 or 10000 ppm) (Reference standard EN 14387).

Hand protection

Wear suitable gloves (EN 374)

Material of gloves

After short-term use or protection from liquids, use nitrile rubber gloves (thickness 0.3 mm, penetration time > 480 min). In the case of continuous exposure, use butyl rubber gloves (thickness 0.4 mm, penetration time > 480 minutes). Contaminated gloves should be removed.

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:

Wear category II 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****Physical state**

Paste

Colour:

Transparent

Odour:

Characteristic

Odour threshold:

Not determined

Melting point/freezing point:

Not determined

Boiling point or initial boiling point and boiling range

Not determined

Flammability

Not applicable

Lower and upper explosion limit**Lower:**

Not determined

Upper:

Not determined

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Flash point:	Not Flammable
Decomposition temperature:	Not determined
pH	Not determined
Viscosity:	
Kinematic viscosity	Not determined
Dynamic:	65.000-90.000 cps (UNI EN ISO 3219)
Solubility	
water:	Insoluble
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not determined
Density and/or relative density	
Density:	1.05-1.09 g/cm ³ (ISO 1183-1 A)
Relative density	Not determined
Vapour density	Not determined
9.2 Other information	VOC (Directive 2010/75/EC) : 0 VOC (volatile carbon) : 0
Appearance:	
Form:	Paste
Important information on protection of health and environment, and on safety.	
Auto-ignition temperature:	Not determined
Explosive properties:	Product does not present an explosion hazard.
Cloud point / clarification point:	
Oxidising properties	No data available
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**

Product reacts slowly with water (ambient humidity) turning into a rubbery solid and producing METHANOL.

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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** Moisture**10.5 Incompatible materials** Water**10.6 Hazardous decomposition products**

Carbon monoxide

Carbon dioxide (CO₂)

Nitrogen oxides

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: 28553-12-0 diisononyl phthalate**

Oral	LD50	>10,000 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg (rabbit)

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: 52829-07-9 bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

Oral	LD50	3,700 mg/kg (rat)
Dermal	LD50	>3,170 mg/kg (rat)
Inhalative	LC50/4 h (vapour)	0.5 mg/l (rat)

CAS: 67-56-1 methanol

Oral	LD50	5,000 mg/kg (rat)
		15,800 mg/kg (rabbit)

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.

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11.2 Information on other hazards**Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:****CAS: 28553-12-0 diisononyl phthalate**

EC50 (72h) >88 mg/l (ssu)

EC50 (48h) >74 mg/l (Daphnia magna)

LC50 (96h) >102 mg/l (Danio rerio)

CAS: 2768-02-7 trimethoxyvinylsilane

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

CAS: 52829-07-9 bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

EC50 (72h) 1.9 mg/l (ssu)

EC50 (48h) 0.57 mg/l (Crustacea)

LC50 (96h) 4.4 mg/l (Brachydanio rerio)

CAS: 67-56-1 methanol

EC50 (48h) >10,000 mg/l (daphnia magna)

LC50 (96h) 15,400-29,400 mg/l (fis)

12.2 Persistence and degradability

CAS: 2768-02-7 | Trimethoxyvinylsilane

Not rapidly degradable.

CAS: 52829-07-9 | Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

Not rapidly degradable

CAS: 67-56-1 Methanol

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

12.3 Bioaccumulative potential

CAS: 67-56-1 | Methanol

Partition coefficient: n-octanol/water: -0,77

BCF: 0,2

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 disrupting properties see section 11.**12.7 Other adverse effects****Additional ecological information:****General notes:** Not hazardous for water.

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SECTION 13: Disposal considerations**13.1 Waste treatment methods****Recommendation**

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.



Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Contact manufacturer for recycling information.

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information****14.1 UN number or ID 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 Maritime transport in bulk according to IMO instruments** Not applicable.

UN "Model Regulation": Void

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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** None of the ingredients is listed.**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 52a

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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

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H370 Causes damage to organs.

H400 Very toxic to aquatic life.

H411 Toxic 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.

Department issuing SDS:

SUSTCHEM CONSULTING SUSTCHEM S.A.
 REACH & Chemical Services Department
 A: 144, 3rd Septemvriou, GR 112 51 | Athens, Greece
 T: +30 210 8252510 | F: +30 210 8252575
 W: www.sustchem.gr | E: info@suschem.gr

Version number of previous version: 4**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)

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

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Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 4: Acute toxicity – Category 4

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

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

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

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

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

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