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

Printing date 10.04.2019 Version number 1 Revision: 10.04.2019

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

1.1 Product identifier

Trade name: SiMP CRYSTAL

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
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
Hazard pictograms: Void

(Contd. on page 2)

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

Printing date 10.04.2019 Version number 1 Revision: 10.04.2019

Trade name: SiMP CRYSTAL

(Contd. of page 1)

Signal word: Void

Hazard statements: Void
2.3 Other hazards
Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be 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.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
Description:
Mixture consisting of substances that either not classified or not required to be stated in the Safety Data Sheet according to Reg. (EU) 830/2015.
Ingredients according Regulation (EU) 830/2015: Void
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.
After inhalation:
Keep patient calm, remove to fresh air.
Seek medical treatment in case of complaints.
After skin contact:
Immediately wash with water and soap and rinse thoroughly.
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.
Remove contact lenses and continue rinsing for several minutes
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.
Never give anything by mouth to an unconscious person.
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, foam, extinguishing powder, water spray
Use fire extinguishing methods suitable to surrounding conditions.
5.2 Special hazards arising from the substance or mixture release of toxic fumes is possible

(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 10.04.2019 Version number 1 Revision: 10.04.2019

Trade name: SiMP CRYSTAL

(Contd. of page 2)

5.3 Advice for firefighters
Protective equipment:
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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.
Ensure adequate ventilation.
Avoid contact with the skin, eyes and clothing.
6.1.2 For emergency responders
First-aid responders must wear protectice clothing, gloves, goggles and respiratory device with filter type A.
6.2 Environmental precautions:
Prevent product from entering sewers, rivers or other bodies of water. Note: solidified product may clog drains and sewers.
6.3 Methods and material for containment and cleaning up:
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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Do not eat, drink or smoke during the usage of the product.
Avoid contact with eyes, hands and clothing.
Ensure good ventilation.
Information about fire - and explosion protection: No special measures required.
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:
Store away from flammable substances.
Store away from water.
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:	
CAS: 67-56-1 methanol	
WEL (Great Britain)	Short-term value: 333 mg/m³, 250 ppm Long-term value: 266 mg/m³, 200 ppm Sk

(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 10.04.2019 Version number 1 Revision: 10.04.2019

Trade name: SiMP CRYSTAL

(Contd. of page 3)

IOELV (EU)	Long-term value: 260 mg/m³, 200 ppm Skin

DNELs
VINYLTRIMETHOXYSILANE.
Consumers:
Oral: chronic systemic effect - 0.3 mg / kg / d
Inhalation: Acute systemic effect - 93.4 mg / m^3
chronic systemic effect - 1.04 mg / m^3
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 / m^3
Skin: chronic systemic effect - 0.69 mg / kg / 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 / m 3
chronic systemic incidence - 1,4 mg / m 3
Skin: Acute systemic effect - 1 mg / kg
chronic systemic effect - 1 mg / kg

Employees:
Inhalation: chronic & acute systemic effect - 5.6 mg / m 3
Skin: chronic & acute systemic effect - 2 mg / kg
PNECs
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
Take appropriate protective measures with regard to the handling of chemicals and mixtures.

Personal protective equipment
General protective and hygienic measures:
Do not breathe vapours or mists.
Avoid contact with the eyes and skin.

(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 10.04.2019 Version number 1 Revision: 10.04.2019

Trade name: SiMP CRYSTAL

(Contd. of page 4)

Do not eat, drink or smoke while using the product.
Keep the right conditions of industrial hygiene.
Ensure adequate ventilation during use.
Respiratory protection:
If ventilation is not sufficient to control dust levels below exposure limits, use respirators.
Protection of hands: Not required under normal conditions of use.
Eye protection: Not required under normal conditions of use.
Body protection: Not required
Environmental exposure controls:
Dispose of flushing liquids in accordance with local and national regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:	
Form:	Paste
Colour:	Clear
Odour:	Characteristic
Odour threshold:	Not determined
pH value:	Not determined
Flash point:	Not Flammable
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:	1.07 g/cm³
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not determined
Solubility in / Miscibility with water:	Not determined
Partition coefficient: n-octanol/water:	Not determined

(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 10.04.2019 Version number 1 Revision: 10.04.2019

Trade name: SiMP CRYSTAL

(Contd. of page 5)

Viscosity:
Dynamic at 20 °C: 70,000-90,000 cps
Kinematic: Not determined
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 dioxide
Carbon monoxide
Nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity Based on available data, the classification criteria are not met.
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.
Repeated dose toxicity Based on the data, the classification criteria are not fulfilled.
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
Not classified as a risk for aspiration according to paragraphs 3.10.3.3.1.1. & Amp; 3.10.3.3.1.2 of CLP Regulation 1272/2008 / EC. The viscosity of the mixture at 40 ° C is greater than 20.5 mm2 / s.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.
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 hazardous for water.
Not known to be hazardous to water.

(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 10.04.2019 Version number 1 Revision: 10.04.2019

Trade name: SiMP CRYSTAL

(Contd. of page 6)

12.5 Results of PBT and vPvB assessment
On the basis of available data, the product does not contain any PBT or vPvB in percentage 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.

Uncleaned packaging:
Recommendation:
Disposal must be made according to official regulations.
If recycling is not possible, dispose according to the local 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
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

(Contd. on page 8)

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

Printing date 10.04.2019 Version number 1 Revision: 10.04.2019

Trade name: SiMP CRYSTAL

(Contd. of page 7)

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.

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.

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.
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

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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative