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 6 (replaces version 5) Revision: 16.02.2022

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

1.1 Product identifier

Trade name: SiMP Coat 25

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:
Self-leveling and moisture-curing liquid membrane, methoxy silane-based, for the construction industry

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, N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.
EUH210 Safety data sheet available on request.
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
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 Mixtures
Description: Mixture: consisting of the following components.

(Contd. on page 2)

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 6 (replaces version 5) Revision: 16.02.2022

Trade name: SiMP Coat 25

(Contd. of page 1)

Ingredients according Regulation (EU) 2020/878:

CAS: 64771-72-8 EC number: 929-018-5 Reg.nr.: 01-2119475608-26-XXXX	Hydrocarbons, C10-C13, n-Alkanes, < 2% Aromatics Asp. Tox. 1, H304, EUH066	≥6-<7%
CAS: 13463-67-7 EINECS: 236-675-5 Reg.nr.: 01-2119489379-17-XXXX	Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] Classification notes according to Annex VI to the CLP Regulation: 10, V, W Carc. 2, H351, EUH211, EUH212	≥3.5-<4%
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: 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	≥0.8-<0.9%
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	≥0.35-<0.4%
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 of danger area and lay down.
In all cases call a doctor

After inhalation:
If breathing is difficult, remove to fresh air. Restore breathing. Keep warm and quiet. Notify physician.
If the victim is unconscious and does not breathe, make sure the breathing has clogged. Provide artificial respiration by trained staff.
Get medical attention if symptoms occur.

After skin contact:
Remove contaminated clothing and shoes.
Wash with water and soap.

After eye contact:
Remove immediately with a clean cloth or paper and wash affected area with soap and water.
If symptoms persist, consult a doctor.
Avoid strong water jet-risk of cornea damage, consult a doctor.

(Contd. on page 3)

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 6 (replaces version 5) Revision: 16.02.2022

Trade name: SiMP Coat 25

(Contd. of page 2)

After swallowing:
Drink plenty of water and provide fresh air. Call for a doctor immediately.
Rinse mouth with water.
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
Consult a doctor if symptoms are severe or in the case of persistent irritation of the skin.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: Carbon dioxide, foam, powder and water spray.
For safety reasons unsuitable extinguishing agents: None in particular.

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
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 jets of water 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 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.1.1 For non-emergency personnel
Avoid contact with dripping or leaking material
Avoid contact with skin and eyes.
Ensure sufficient ventilation.

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: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10.
Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired.

6.4 Reference to other sections:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

(Contd. on page 4)

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 6 (replaces version 5) Revision: 16.02.2022

Trade name: SiMP Coat 25

(Contd. of page 3)

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Before handling the product, consult all the other sections of this material safety data sheet.
Avoid leakage of the product into the environment.
Do not eat, drink or smoke during use.
Remove any contaminated clothes and personal protective equipment before entering places in which people eat.
Avoid contact with skin and eyes.
Wash hands before each break and after finishing work.
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:
Requirements to be met by storerooms and receptacles:
Store in a cool location.
Keep only in the original container.
Further information about storage conditions: Protect from direct sunlight.
Storage class: TRGS 510 (Germany): 10
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: 13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] **Classification notes according to Annex VI to the CLP Regulation: 10, V, W**	
WEL (Great Britain)	Long-term value: 10* 4** mg/m³ *total inhalable **respirable

DNELs
Trimethoxyvinylsilane | CasNo: 2768-02-7.
Consumers:
Oral: chronic systemic effect - 0.3 mg/kg/d
Inhalation: Acute systemic effect - 93.4 mg/m³
chronic 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
N-(3-(trimethoxysilyl)propyl)ethylenediamine | CasNo: 1760-24-3.
Consumers:
Inhalation: chronic systemic effect - 8.7 mg/m³.

(Contd. on page 5)

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 6 (replaces version 5) Revision: 16.02.2022

Trade name: SiMP Coat 25

(Contd. of page 4)

Dermal: Acute systemic effect - 17 mg/kg bw/d.
chronic systemic effect - 2.5 mg/kg bw/d.
Workers:
Inhalation: chronic systemic effect - 35.3 mg/m³.
Dermal: Acute & chronic systemic effect - 5 mg/kg bw/d.
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/m³
chronic 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
PNECs
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
N-(3-(trimethoxysilyl)propyl)ethylenediamine | CasNo: 1760-24-3.
fresh water 0.062 mg/l
marine water 0,0062 mg/l
sediment in fresh water 0.22 mg/kg
sediment in marine 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
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
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:
The usual precautionary measures are to be adhered to when handling chemicals.
Avoid contact with skin and eyes.
Do not eat, drink or smoke while using the product.

(Contd. on page 6)

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 6 (replaces version 5) Revision: 16.02.2022

Trade name: SiMP Coat 25

(Contd. of page 5)

Do not breathe vapours or mists.
Be sure to clean skin thoroughly after work and before breaks.

Respiratory protection:
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

Hand protection

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

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
NBR (Nitrile rubber)
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 I professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN ISO 20344). Wash body with soap and water after removing overalls.

*
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Paste
Colour:	Various colours
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
Flash point:	Not Flammable
Decomposition temperature:	Not determined
pH	Not determined
Viscosity:	
Kinematic viscosity	Not determined
Dynamic:	6.000-13.000 cps (UNI EN ISO 3219)

(Contd. on page 7)

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 6 (replaces version 5) Revision: 16.02.2022

Trade name: SiMP Coat 25

(Contd. of page 6)

Solubility	
water:	Insoluble
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not determined
Density and/or relative density	
Density:	1.41-1.45 g/cm³ (ISO 1183-1 A)
Relative density	Not determined
Vapour density	Not determined

9.2 Other information

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.
Solvent content:	
VOC (EC)	VOC (Directive 2010/75/EC) : 6,97 % - 99,67 g/l
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.
10.2 Chemical stability Stable under normal conditions and in the absence of water/moisture.
10.3 Possibility of hazardous reactions No dangerous reactions known.
10.4 Conditions to avoid Moisture
10.5 Incompatible materials Water

(Contd. on page 8)

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 6 (replaces version 5) Revision: 16.02.2022

Trade name: SiMP Coat 25

(Contd. of page 7)

10.6 Hazardous decomposition products
Carbon dioxide
Carbon monoxide
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: 64771-72-8 Hydrocarbons, C10-C13, n-Alkanes, < 2% Aromatics		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4h (dusts and mists)	>5 mg/l (rat)
CAS: 13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] Classification notes according to Annex VI to the CLP Regulation: 10, V, W		
Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h (vapour)	>6.82 mg/l (rat)
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	2,295 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg
Inhalative	LC50/4h (dusts and mists)	1.49 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
May produce an allergic reaction.
Contains: N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE.
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.

(Contd. on page 9)

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 6 (replaces version 5) Revision: 16.02.2022

Trade name: SiMP Coat 25

(Contd. of page 8)

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.
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: 2768-02-7 trimethoxyvinylsilane	
LC50 (96h)	191 mg/l (fis)
CAS: 1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine	
EC50 (72h)	126 mg/l (ssu)
EC50 (48h)	81 mg/l (Daphnia magna)
LC50 (96h)	344 mg/l (Brachydanio rerio)
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: 1760-24-3 | N-(3-(trimethoxysilyl)propyl)ethylenediamine
Not rapidly degradable
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
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 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

(Contd. on page 10)

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 6 (replaces version 5) Revision: 16.02.2022

Trade name: SiMP Coat 25

(Contd. of page 9)

12.7 Other adverse effects No further relevant information available.

*
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

*
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

(Contd. on page 11)

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 6 (replaces version 5) Revision: 16.02.2022

Trade name: SiMP Coat 25

(Contd. of page 10)

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.
H304 May be fatal if swallowed and enters airways.
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.
H351 Suspected of causing cancer.
H370 Causes damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Department issuing SDS:

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Version number of previous version: 5

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)
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

(Contd. on page 12)

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 6 (replaces version 5) Revision: 16.02.2022

Trade name: SiMP Coat 25

(Contd. of page 11)

PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
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. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
Carc. 2: Carcinogenicity – Category 2
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – 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.**