

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 4 (replaces version 3)

Revision: 16.02.2022

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

1.1 Product identifier**Trade name:** SiMP SEAL 20**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 N-(3-(trimethoxysilyl)propyl)ethylenediamine, trimethoxyvinylsilane. 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****PBT:** Not applicable.**vPvB:** Not applicable.

* **SECTION 3: Composition/information on ingredients**

3.2 Mixtures**Description:** Mixture: consisting of the following components.

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Ingredients according Regulation (EU) 2020/878:

CAS: 28553-12-0 EINECS: 249-079-5 Reg.nr.: 01-2119430798-28-XXXX	diisononyl phthalate substance with a Community workplace exposure limit	≥19.5-<21%
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%
ELINCS: 432-430-3 Index number: 616-200-00-1 Reg.nr.: 01-0000017860-69-XXXX	Reaction mass of N, N'-ethane-1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl] octadecanamide and N, N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide) Aquatic Chronic 4, H413	≥2.5-<3%
CAS: 1333-86-4 EINECS: 215-609-9 Reg.nr.: 01-2119384822-32-XXXX	Carbon black substance with a Community workplace exposure limit	≥1-<1.5%
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%
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	≥0.2-<0.25%
CAS: 3896-11-5 EINECS: 223-445-4 Reg.nr.: 01-2119971796-18-XXXX	bumetrizole	≥0.2-<0.25%
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.

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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.

Immediately rinse with plenty of water.

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.

Seek immediate medical advice.

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.

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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.

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.

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:****CAS: 28553-12-0 diisononyl phthalate**WEL (Great Britain) Long-term value: 5 mg/m³

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CAS: 13463-67-7 Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]

Classification notes according to Annex VI to the CLP Regulation: 10, V, W

WEL (Great Britain)	Long-term value: $10 \times 4^{**} \text{ mg/m}^3$ *total inhalable **respirable
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CAS: 1333-86-4 Carbon black

WEL (Great Britain)	Short-term value: 7 mg/m^3 Long-term value: 3.5 mg/m^3
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DNELs

N-(3-(trimethoxysilyl)propyl)ethylenediamine | CasNo: 1760-24-3.

Consumers:

Inhalation: chronic systemic effect - 8.7 mg/m^3 .

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/m^3 .

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/m^3
 chronic systemic incidence - 1.4 mg/m^3

Dermal: Acute systemic effect - 1 mg/kg
 chronic systemic effect - 1 mg/kg

Workers:

Inhalation: chronic & acute systemic effect - 5.6 mg/m^3

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/m^3
 chronic systemic effect - 1.04 mg/m^3

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/m^3

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

PNECs

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

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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

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

8.2 Exposure controls**8.2.1. Appropriate engineering controls** Use of local ventilation is advised.**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.

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).

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

Butyl rubber

0.4 mm thickness, penetration time > 480 min

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)

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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.

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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****General Information**

Physical state	Paste
Colour:	Various
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
pH	Not determined
Viscosity:	
Kinematic viscosity	Not determined
Dynamic:	100.000-180.000 mPas (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:	1.47-1.51 g/cm ³ (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): 0
Cloud point / clarification point:	
Oxidising properties	Not oxidising
Evaporation rate	Not determined

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void

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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 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 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: 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	> 10.000 mg/kg (rat)
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CAS: 1333-86-4 Carbon black

Oral	LD50	> 8000 mg/kg (rat)
Dermal	LD50	> 3000 mg/kg (rabbit)
Inhalative	LD50	> 27 mg/l/1h (rat)

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

Oral	LD50	2,295 mg/kg (rat)
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Dermal	LD50	>2,000 mg/kg
Inhalative	LC50/4h (dusts and mists)	1.49 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: 67-56-1 methanol		
Oral	LD50	5,000 mg/kg (rat)
		15,800 mg/kg (rabbit)
CAS: 3896-11-5 bumetrizole		
Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (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**

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.**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.

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

NOEC	25 mg/l (Selenastrum capricornutum)
LC50 (96h)	191 mg/l (fis)

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

LC50 (96h)	4.4 mg/l (Brachydanio rerio)
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EC50 (48) 0.57 mg/l (Crustacea)

EC50 (72) 1.9 mg/l (ssu)

CAS: 67-56-1 methanol

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

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

CAS: 3896-11-5 bumetrizole

LC50 (96h) >100 mg/l (Dn)

CAS: 1333-86-4 Carbon black

EC50 (72h) > 10000 mg/l (ssu)

LC50 (96h) > 1000 mg/l (Brachydanio rerio)

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: 67-56-1 Methanol

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

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

Not 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.**12.7 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.

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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 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.**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 52a**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.

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.

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- 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.
- H413 May cause long lasting harmful effects to aquatic life.
- 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.

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  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: 3**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
 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
 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
 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

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