

Safety data sheet

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

1.1. Product identifier.

Product name. **CROSSBOND MS HL 90**

1.2. Relevant identified uses of the substance or mixture and uses advised against.

Intended use. **Sealant / Adhesive for bodywork.**

Identified Uses	Industrial.	Professional.	Consumer.
Production, Processing, Formulation and Distribution of substances and mixtures.	✓	✓	-
Uses Advised Against			
Not suitable for use in applications "do it yourself".			

1.3. Details of the supplier of the safety data sheet.

Name. **Crosslink Solutions Ltd,**
Full address. **Unit 5.03 Cannock Chase**
District and Country. **Enterprise Centre**
WS12 0QU
United Kingdome-mail address of the competent person.
responsible for the Safety Data Sheet. **rob@crosslinksolutions.co.uk**Product distribution by: **Crosslink Solutions Ltd**1.4. Emergency telephone number. **Tel. 07785355861**

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to EC Regulation 1907/2006 and subsequent amendments.

Hazard classification and indication: --

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements:
EUH210 Safety data sheet available on request.
EUH208 Contains: 3-(triethoxysilyl)-propylamin - CAS n. 919-30-2
May produce an allergic reaction.

Precautionary statements: --

2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

Product hydrolyses under formation of methanol (CAS no. 67-56-1). Methanol is toxic by inhalation, in contact with skin and if swallowed. Methanol causes damage to organs. Methanol is highly flammable.
Product hydrolyses, producing ethanol (CAS no. 64-17-5). Ethanol is highly flammable.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification. **x = Conc. %.** **Classification 1272/2008 (CLP).**

VINYLTRIMETHOXYSILANE - CAS n. 2768-02-7

CAS. 2768-02-7 $2 \leq x < 3$ Flam. Liq. 3 H226, Acute Tox. 4 H332, STOT RE 2 H373

EC. 220-449-8

INDEX.

Reg. no. 01-2119513215-52

POLYAMIDE WAX

CAS. $2 \leq x < 3$ Aquatic Chronic 3 H412

EC. 907-495-0

INDEX.

Reg. no. 01-2119545465-35

3-(triethoxysilyl)-propylamin - CAS n. 919-30-2

CAS. 919-30-2 $0,8 \leq x < 1$ Acute Tox. 4 H302, Skin Corr. 1B H314, Skin Sens. 1 H317, EUH208

EC. 213-048-4

INDEX. 612-108-00-0

Reg. no. 01-2119480479-24-XXXX

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures.

4.1. Description of first aid measures.

They are not known incidents of damage to personnel involved in the use of the product. However, in case of necessity, adopt the following general measures:

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

INHALATION: Material cannot be inhaled under normal conditions.

INGESTION: Give several small portions of water to drink, but do not induce vomiting. Never give anything by mouth to an unconscious person unless authorized by the physician. Seek medical advice immediately.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Seek medical advice in case of continuous irritation.

SKIN: Take off contaminated clothing. Wipe off excess material with cloth or paper. Wash with plenty of water or water and soap. In the event of a visible skin change or irritation persists or other complaints, seek medical advice (show label or SDS where possible). Wash contaminated clothing before reuse.

4.2. Most important symptoms and effects, both acute and delayed.

Specific information on symptoms and effects caused by the product are unknown.

The product does not harm health. Any relevant information can be found in other parts of this section.

4.3. Indication of any immediate medical attention and special treatment needed.

Follow the directions of the doctor. Further toxicology information in section 11 must be observed.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: water mist, extinguishing powder, alcohol-resistant foam, carbon dioxide, sand.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

SECTION 5. Firefighting measures. ... / >>**5.2. Special hazards arising from the substance or mixture.****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products: risk of hazardous gasses or fumes in the event of fire. Exposure to combustion products may be a health hazard! Hazardous combustion products: carbon oxides, silicon oxides, nitrogen oxides, incompletely burnt hydrocarbon, toxic and very toxic fumes.

5.3. Advice for firefighters.**GENERAL INFORMATION**

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. Keep unprotected persons away.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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).

SECTION 6. Accidental release measures.**6.1. Personal precautions, protective equipment and emergency procedures.**

Secure the area. Use breathing equipment if fumes or powders are released into the air; wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material.

These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

6.3. Methods and material for containment and cleaning up.

Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up mechanically the spilled material and place in an appropriate chemical waste container. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

Further information:

Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 7.

The disposal of contaminated material must be carried out in accordance with the provisions of section 13.

6.4. Reference to other sections.

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7. Handling and storage.**7.1. Precautions for safe handling.****Information for safe handling.**

Ensure adequate ventilation of the working environment. Avoid contact with skin and eyes. Spilled substance increases risk of slipping. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Remove any contaminated clothes and personal protective equipment before entering mess hall. Observe information in section 8. Keep away from incompatible substances in accordance with section 10.

Precautions against fire and explosion:

Reacting with moisture, product can release ethanol and methanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

7.2. Conditions for safe storage, including any incompatibilities.

Store in a dry and cool place. Protect against moisture. Store container in a well ventilated place. Normal storage conditions without special incompatibilities (see Section 10).

7.3. Specific end use(s).

No data available.

SECTION 8. Exposure controls/personal protection.

Maximum airborne concentrations at the workplace:

CAS n°	Material	Type	TWA/8h		STEL/15min	
			mg/m3	ppm	mg/m3	ppm
67-56-1	Methanol	WEL_UK	266	200	333	250
64-17-5	Ethanol	WEL_UK	1920	1000	-	-

Values are shown as a precaution. Methanol and Ethanol are substances released in trace amounts depending on the moisture.

8.1. Control parameters.

Regulatory References:

GBR	United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
	TLV-ACGIH	ACGIH 2016

PRECIPITATED CALCIUM CARBONATE - CAS n. 471-34-1

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.	VND	6,1 mg/kg	VND	6,1 mg/kg				
Inhalation.			VND	10 mg/m3			VND	10 mg/m3

VINYLTRIMETHOXYSILANE - CAS n. 2768-02-7

Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
WEL	GBR	266	200	333	250	SKIN. Methanol
VLEP	ITA	10				INHAL. Aerosol
TLV-ACGIH		262	200	328	250	SKIN. Metanolo

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,34	mg/l
Normal value in marine water	0,034	mg/l
Normal value for fresh water sediment	0,27	mg/kg
Normal value for water, intermittent release	3,4	mg/l
Normal value of STP microorganisms	110	mg/l
Normal value for the terrestrial compartment	0,046	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	0,3 mg/kg/d				
Inhalation.	VND	93,4 mg/m3	VND	1,04 mg/m3	VND	4,9 mg/m3	VND	4,9 mg/m3
Skin.	VND	26,9 mg/kg/d	VND	0,3 mg/kg/d	VND	0,69 mg/kg bw/d	VND	0,69 mg/kg/d

SECTION 8. Exposure controls/personal protection. ... / >>

POLYAMIDE WAX

Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH		10			

INHAL.

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,0432	mg/l
Normal value in marine water	0,00432	mg/l
Normal value for fresh water sediment	1080	mg/kg
Normal value for marine water sediment	108	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	217	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	0,56 mg/kg/d				
Inhalation.					30,3 mg/m3	3 mg/m3	3 mg/m3	VND
Skin.	11,2 mg/cm2	VND	3,75 mg/cm2	VND	11,2 mg/cm2	VND	3,75 mg/cm2	VND

CARBON BLACK, AMORPHOUS - CAS n. 1333-86-4

Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
VLEP	ITA	3			

(frazione respirabile)

3-(triethoxysilyl)-propylamin - CAS n. 919-30-2

Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
VLEP	ITA		1000		

Ethanol

2-(5-CHLORO (2H)-benzotriazol-2-IL)-4-(methyl)-6-(tert-BUTYL) PHENOL - CAS n. 3896-11-5

Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
VLEP	ITA			0,21	

Durata = 10'

Bis (2,2,6,6-TETRAMETHYL-4-PIPERIDYL) SEBACATE - CAS n. 52829-07-9

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,005	mg/l
Normal value in marine water	0,0005	mg/l
Normal value for fresh water sediment	8,02	mg/kg
Normal value for marine water sediment	0,802	mg/kg
Normal value for water, intermittent release	0,01	mg/l
Normal value of STP microorganisms	1	mg/l
Normal value for the terrestrial compartment	1,6	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation.							5,6 mg/m3	VND
Skin.							VND	2,0 mg/kg

SECTION 8. Exposure controls/personal protection. ... / >>

DI-OCTYL TIN DILAUATE - CAS n. 3648-18-8

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,0000018	mg/l
Normal value in marine water	0,0000018	mg/l
Normal value for fresh water sediment	0,02798	mg/kg
Normal value for marine water sediment	0,02798	mg/kg
Normal value of STP microorganisms	100	mg/l
Normal value for the food chain (secondary poisoning)	0,02	mg/kg
Normal value for the terrestrial compartment	0,005593	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	0,0005 mg/kg bw/d				
Inhalation.			VND	0,0009 mg/m3			VND	0,0035 mg/m3

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration. When selecting personal protective equipment, if necessary, ask your chemical substance supplier for advice.

The personal protective equipment must display the CE marking attesting their compliance with applicable regulations. Provide emergency eye-washer with bowl.

HAND PROTECTION

Gloves are required at all times when handling the material. Protect hands with category I (ref. Directive 89/686/EEC and standard EN 374) work gloves.

Recommended glove types: Protective gloves made of butyl rubber

thickness of the material: > 0,3 mm - Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of nitrile rubber

thickness of the material: > 0,1 mm - Breakthrough time: > 480 min

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

SKIN 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.

EYE PROTECTION

Use of protective airtight goggles (ref. standard EN 166) recommended.

RESPIRATORY PROTECTION

If the threshold value (if available) for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.

Recommended Filter type: Gas filter type ABEK (certain inorganic, organic and acidic gases and vapors; ammonia/amines), according to acknowledged standards such as EN 14387.

Observe the equipment manufacturer's information and wear time limits for respirators. If they are present different types of gas or vapors and / or gases or vapors with particles (aerosols, fumes, mists, etc.), combined filters type should be provided for.

The use of respiratory tract protection equipment, such as masks like that indicated above, is necessary to reduce worker exposure in the absence of technical measures. The protection provided by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138).

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

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

Appearance	High viscosity paste
Colour	black
Odour	odourless
Odour threshold.	Not available.
pH.	Not applicable.
Melting point / freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	Not available.
Evaporation Rate	Not available.
Flammability of solids and gases	not applicable
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	1,48 kg/dm ³
Solubility	Insoluble in water, soluble in organic solvents
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	> 200 °C.
Decomposition temperature.	100
Viscosity	> 20,5 mm ² /s
Explosive properties	not applicable
Oxidising properties	not applicable

9.2. Other information.

VOC (Directive 2010/75/EC) :	0
VOC (volatile carbon) :	0

SECTION 10. Stability and reactivity.**10.1. Reactivity.**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.2. Chemical stability.

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

Keep away from water and moisture. The usual precautions used for chemical products should be respected.

10.4. Conditions to avoid.

Keep away from water and moisture. The usual precautions used for chemical products should be respected.

10.5. Incompatible materials.

Reacts with: water , basic substances and acids . Reaction causes the formation of: methanol and ethanol .

10.6. Hazardous decomposition products.

Small amounts of methanol/ethanol are released reacting with moisture. Thermal decomposition: product is stable up to 100 °C. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation. In the event of fire may develop the following hazardous products: oxides of carbon, oxides of silicon, nitrogen oxides, unburned hydrocarbons, toxic and very toxic fumes.

SECTION 11. Toxicological information.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects.

ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture:	> 20 mg/l
LC50 (Inhalation - mists / powders) of the mixture:	Not classified (no significant component).
LD50 (Oral) of the mixture:	Not classified (no significant component).
LD50 (Dermal) of the mixture:	Not classified (no significant component).

POLYAMIDE WAX

LD50 (Oral).	> 2000 mg/kg OECD 423
LD50 (Dermal).	> 2000 mg/kg Ratto/Rat/Ratte/Rata/Sobolan - OECD 402

VINYLTRIMETHOXYSILANE - CAS n. 2768-02-7

LD50 (Oral).	7120 mg/kg Ratto/Rat/Ratte/Sobolan/Rata - OECD401
LD50 (Dermal).	> 3460 mg/kg Coniglio/Rabbit/Lapin/Kaninchen/Iepure/Conejo - OECD 402
LC50 (Inhalation).	16,8 mg/l/4h Ratto/Rat/Ratte/Sobolan/Rata - OECD 403

3-(triethoxysilyl)-propylamin - CAS n. 919-30-2

LD50 (Oral).	1,57 Ratto/Rat (fem.) - OECD 401
LD50 (Dermal).	4,29 Coniglio/Rabbit/Lapin/Kaninchen/Conejo/Iepure
LC50 (Inhalation).	> 5 Ratto/Rat (male) - OECD 403

SKIN CORROSION / IRRITATION.

Does not meet the classification criteria for this hazard class.

SERIOUS EYE DAMAGE / IRRITATION.

Does not meet the classification criteria for this hazard class.

RESPIRATORY OR SKIN SENSITISATION.

Does not meet the classification criteria for this hazard class.

GERM CELL MUTAGENICITY.

Does not meet the classification criteria for this hazard class.

CARCINOGENICITY.

Does not meet the classification criteria for this hazard class.

REPRODUCTIVE TOXICITY.

Does not meet the classification criteria for this hazard class.

STOT - SINGLE EXPOSURE.

Does not meet the classification criteria for this hazard class.

STOT - REPEATED EXPOSURE.

Does not meet the classification criteria for this hazard class.

ASPIRATION HAZARD.

Does not meet the classification criteria for this hazard class.

SECTION 12. Ecological information.

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

SECTION 12. Ecological information. ... / >>

There are not available eco-toxicological data on the mixture as a whole. Below the toxicological information are listed, relating to the main substances in the mixture.

12.1. Toxicity.

POLYAMIDE WAX

LC50 - for Fish.	> 100 mg/l/96h pesci - OECD 203
EC50 - for Crustacea.	> 94,9 mg/l/48h Daphnia - OECD 202
EC50 - for Algae / Aquatic Plants.	> 43,2 mg/l/72h alghe - OECD 201
Chronic NOEC for Algae / Aquatic Plants.	> 43,2 mg/l/72h alghe - OECD 201

VINYLTRIMETHOXYSILANE - CAS n. 2768-02-7

LC50 - for Fish.	191 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea.	169 mg/l/48h Daphnia magna - OECD 202
EC50 - for Algae / Aquatic Plants.	> 100 mg/l/72h Desmodesmus subspicatus - 201
EC10 for Algae / Aquatic Plants.	32 Selenastrum capricornutum
Chronic NOEC for Crustacea.	28 mg/l Daphnia Magna (Reproduction; 21 days) OECD 211
Chronic NOEC for Algae / Aquatic Plants.	25 mg/l Selenastrum capricornutum (7d)

3-(triethoxysilyl)-propylamin - CAS n. 919-30-2

LC50 - for Fish.	> 934 mg/l/96h Danio rerio - OECD 203
EC50 - for Crustacea.	331 mg/l/48h Daphnia magna - OECD 202
EC50 - for Algae / Aquatic Plants.	> 1000 mg/l/72h Pseudokirchneriella subcapitata - OECD 201
EC10 for Algae / Aquatic Plants.	> 1000 mg/l/72h Pseudokirchneriella subcapitata - OECD 201

12.2. Persistence and degradability.

POLYAMIDE WAX

Solubility in water.	0,021 mg/l
Rapidly biodegradable.	61% (90d) - OECD 301D

VINYLTRIMETHOXYSILANE - CAS n. 2768-02-7

Solubility in water.	At 20°C - (hydrolytic decomposition) mg/l
NOT rapidly biodegradable.	51% / 28d - OECD 301F

3-(triethoxysilyl)-propylamin - CAS n. 919-30-2

Solubility in water.	> 10000 mg/l
NOT rapidly biodegradable.	67% 28d - OECD 301A

Information not available on the mixture as a whole. Refer to substances listed above.

12.3. Bioaccumulative potential.

POLYAMIDE WAX

Partition coefficient: n-octanol/water.	8,6 Log Kow @25°C
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VINYLTRIMETHOXYSILANE - CAS n. 2768-02-7

Partition coefficient: n-octanol/water.	1,1 Basso potenziale - Low potential
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3-(triethoxysilyl)-propylamin - CAS n. 919-30-2

BCF.	3,4 Cyprinus carpio - 8 weeks - OECD 305C
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Information not available on the mixture as a whole. Refer to substances listed above.

12.4. Mobility in soil.

POLYAMIDE WAX

Partition coefficient: soil/water.	5,4
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Information not available on the mixture as a whole. Refer to substances listed above.

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%.

12.6. Other adverse effects.

Information not available.

SECTION 15. Regulatory information. ... / >>

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention.

None.

Healthcare controls.

Information not available.

15.2. Chemical safety assessment.

A chemical safety assessment has been performed for the following contained substances:

VINYLTRIMETHOXYSILANE - CAS n. 2768-02-7

POLYAMIDE WAX

3-(triethoxysilyl)-propylamin - CAS n. 919-30-2

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains <name of sensitising substance>. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.

SECTION 16. Other information. ... / >>

- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
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9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
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- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

02 / 03 / 04 / 05 / 06 / 07 / 08 / 09 / 10 / 16.