

Printing:	14/07/2023 Date of compilation: 14/07/2023 Version: 1
SEC	TION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier: CH0231* - SILICONE NEUTRAL ULTIMATE AY CHEMISIL
	Other means of identification:
	UFI: JR10-F0KP-Q00W-29HH
1.2	Relevant identified uses of the substance or mixture and uses advised against:
	Relevant uses: Sealant
	Uses advised against: All uses not specified in this section or in section 7.3
1.3	Details of the supplier of the safety data sheet:
	Lusavouga Avenida Europa, 375 3800-533 Aveiro - Cacia - Portugal Phone: +351 234 915 010 - Fax: +351 234 915 015 lusavouga@lusavouga.pt www.chemitool.com
1.4	Emergency telephone number: CIAV 800 250 250
SEC	TION 2: HAZARDS IDENTIFICATION
2.1	Classification of the substance or mixture:
	CLP Regulation (EC) No 1272/2008:
	The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.
2.2	Label elements:
	CLP Regulation (EC) No 1272/2008:
	Hazard statements:
	Non-applicable
	Precautionary statements:
	Non-applicable
	Supplementary information:
	EUH208: Contains 3-aminopropyltriethoxysilane, N-(2-aminoethyl)-N´-[3-(trimethoxysilyl)propyl]ethylenediamine, 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. UFI: JR10-F0KP-Q00W-29HH
2.3	Other hazards:
	Product fails to meet PBT/vPvB criteria Endocrine-disrupting properties: The product fails to meet the criteria.
SEC	TION 3: COMPOSITION/INFORMATION ON INGREDIENTS
3.1	Substance:
	Non-applicable
3.2	Mixture:
	Chemical description: Mixture of substances
	Components:
	In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:



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ION 3	: COMPOSITIO	N/INFORMATION	ON INGREDIENTS (continued)		
	Identification		Chemical name/Classification		Concentratio
CAS:	13463-67-7	Titanium dioxide (aero	odynamic diameter ≤ 10 μm) ¹	ATP ATP14	
		Regulation 1272/2008	Carc. 2: H351 - Warning		<2,5 %
CAS:	2768-02-7	Trimethoxyvinylsilane	1	ATP ATP15	
	220-449-8 014-049-00-0 H: 01-2119513215-52- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; Skin Sens. 1B: H317 - Warning		0,5 - <1 %
CAS: EC:	252-390-9	N-(2-aminoethyl)-N´-[3	3-(trimethoxysilyl)propyl]ethylenediamine 1	Self-classified	
Index:		Regulation 1272/2008	Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Sens. 1: H317 - Danger	(!) (*) ( <b>b</b> )	0,5 - <1 %
CAS:	1760-24-3	N-(3-(trimethoxysilyl)p	propyl)ethylenediamine 1	Self-classified	
	217-164-6 : Non-applicable :H: 01-2119970215-39- XXXX	Regulation 1272/2008	Eye Dam. 1: H318; Skin Sens. 1: H317 - Danger	()	0,5%
CAS:	919-30-2	3-aminopropyltriethox	kysilane 1	Self-classified	
	213-048-4 612-108-00-0 01-2119480479-24- XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger	()	0,1 - <0,5 %

<sup>1</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

### SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

### By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

### By skin contact:

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or if necessary shower the affected person thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

### By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

# By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

### Most important symptoms and effects, both acute and delayed: 4.2

Acute and delayed effects are indicated in sections 2 and 11.

### 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

### SECTION 5: FIREFIGHTING MEASURES

### **Extinguishing media:** 5.1

Suitable extinguishing media:

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### SECTION 5: FIREFIGHTING MEASURES (continued)

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

## Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

## 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

## For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

### 6.2 Environmental precautions:

Avoid spillage into the aquatic environment as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into the aquatic environment notify the relevant authority.

### 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

### 6.4 Reference to other sections:

See sections 8 and 13.

### SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks



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### SECTION 7: HANDLING AND STORAGE (continued)

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

### 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

### DNEL (Workers):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Trimethoxyvinylsilane	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 2768-02-7	Dermal	Non-applicable	Non-applicable	3,9 mg/kg	Non-applicable
EC: 220-449-8	Inhalation	Non-applicable	Non-applicable	27,6 mg/m <sup>3</sup>	Non-applicable
N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl] ethylenediamine	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 35141-30-1	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 252-390-9	Inhalation	Non-applicable	Non-applicable	16,45 mg/m <sup>3</sup>	Non-applicable
3-aminopropyltriethoxysilane	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 919-30-2	Dermal	Non-applicable	Non-applicable	2 mg/kg	Non-applicable
EC: 213-048-4	Inhalation	Non-applicable	Non-applicable	14 mg/m <sup>3</sup>	Non-applicable

### **DNEL (General population):**

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Trimethoxyvinylsilane	Oral	Non-applicable	Non-applicable	0,3 mg/kg	Non-applicable
CAS: 2768-02-7	Dermal	Non-applicable	Non-applicable	7,8 mg/kg	Non-applicable
EC: 220-449-8	Inhalation	Non-applicable	Non-applicable	18,9 mg/m <sup>3</sup>	Non-applicable
N-(2-aminoethyl)-N´-[3-(trimethoxysilyl)propyl] ethylenediamine	Oral	Non-applicable	Non-applicable	0,83 mg/kg	Non-applicable
CAS: 35141-30-1	Dermal	Non-applicable	Non-applicable	Non-applicable	e Non-applicable
EC: 252-390-9	Inhalation	Non-applicable	Non-applicable	2,9 mg/m <sup>3</sup>	Non-applicable
3-aminopropyltriethoxysilane	Oral	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
CAS: 919-30-2	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
EC: 213-048-4	Inhalation	Non-applicable	Non-applicable	3,5 mg/m <sup>3</sup>	Non-applicable
PNEC:					
Identification					
N-(3-(trimethoxysilyl)propyl)ethylenediamine	STP	25 mg/L	Fresh water		0,062 mg/L
CAS: 1760-24-3	Soil	0,009 mg/kg	Marine water		0,006 mg/L
EC: 217-164-6	Intermittent	0,62 mg/L	Sediment (Fresh	n water)	0,22 mg/kg
	Oral	Non-applicable	Sediment (Marin	ne water)	0,022 mg/kg



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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
N-(2-aminoethyl)-N´-[3-(trimethoxysilyl)propyl] ethylenediamine	STP	2,5 mg/L	Fresh water	0,0088 mg/L
CAS: 35141-30-1	Soil	0,00149 mg/kg	Marine water	0,00088 mg/L
EC: 252-390-9	Intermittent	0,088 mg/L	Sediment (Fresh water)	0,0333 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,00333 mg/kg
3-aminopropyltriethoxysilane	STP	1,3 mg/L	Fresh water	Non-applicable
CAS: 919-30-2	Soil	Non-applicable	Marine water	Non-applicable
EC: 213-048-4	Intermittent	Non-applicable	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable

### 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

### B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+ A1:2010 and EN ISO 374-1:2016+A1:2018

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

### D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	CATI		Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes	CAT II	EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

	Emergency measure	Standards	Emergency measure	Standards			
	Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	Evewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011			
	Emergency shower		Eyewash stations				
En	Environmental exposure controls:						

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In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

,	With regard to Directive 2010/75/EU	, this product has th	e following characteristics:	
	V.O.C. (Supply):	0 % weight		
	V.O.C. density at 20 °C:	0 kg/m <sup>3</sup> (0 g/L)		
	Average carbon number:	Non-applicable		
	Average molecular weight:	Non-applicable	9	
ECTI	ON 9: PHYSICAL AND CHEMI	CAL PROPERTIE	S	
.1	Information on basic physical and	l chemical properti	ies:	
I	For complete information see the pr	oduct datasheet.		
1	Appearance:			
ļ	Physical state at 20 °C:		Liquid	
1	Appearance:		Paste	
	Colour:		According to the markings on the package	
	Odour:		Characteristic	
	Odour threshold:		Non-applicable *	
,	Volatility:			
ļ	Boiling point at atmospheric pressur	e:	Non-applicable *	
,	Vapour pressure at 20 °C:		Non-applicable *	
,	Vapour pressure at 50 °C:		Non-applicable *	
ļ	Evaporation rate at 20 °C:		Non-applicable *	
ļ	Product description:			
ļ	Density at 20 °C:		~1,2 kg/m³	
ļ	Relative density at 20 °C:		1,2	
	Dynamic viscosity at 20 °C:		10000 cP	
	Kinematic viscosity at 20 °C:		8333,33 mm²/s	
	Kinematic viscosity at 40 °C:		>20,5 mm²/s	
	Kinematic viscosity at 100 °C:		8333,33 mm²/s	
1	Concentration:		Non-applicable *	
ſ	pH:		Non-applicable *	
,	Vapour density at 20 °C:		Non-applicable *	
	Partition coefficient n-octanol/water	20 °C:	Non-applicable *	
1	Solubility in water at 20 °C:		Non-applicable *	
1	Solubility properties:		Insoluble in water	
	Decomposition temperature:		Non-applicable *	
	Melting point/freezing point:		Non-applicable *	
ſ	Flammability:			
	Flash Point:		>100 °C (Does not maintain combustion)	
i	Flammability (solid, gas):		Non-applicable *	
	Autoignition temperature:		>235 °C	
	Lower flammability limit:		Non-applicable *	

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SEC	TION 9: PHYS	ICAL AND CHEMICAL PROPERT	IES (continued)
	Upper flammal	bility limit:	Non-applicable *
	Particle chara	cteristics:	
	Median equiva	lent diameter:	Non-applicable
9.2	Other informa	ition:	
	Information w	ith regard to physical hazard classes	5:
	Explosive prop	erties:	Non-applicable *
	Oxidising prop	erties:	Non-applicable *
	Corrosive to m	etals:	Non-applicable *
	Heat of combu	stion:	Non-applicable *
	Aerosols-total components:	percentage (by mass) of flammable	Non-applicable *
	Other safety o	characteristics:	
	Surface tension	n at 20 °C:	Non-applicable *
	Refraction inde	2X:	Non-applicable *
	*Not relevant due	to the nature of the product, not providing inform	mation property of its hazards.

# SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

### 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
	Not applicable	Not applicable	Precaution	Precaution	Not applicable
10.5	Incompatible materials:				
	Acids	Water	Oxidising materials	Combustible materials	Others
	Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

The experimental information related to the toxicological properties of the product itself is not available

## Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.



TO N	D7/2023         Date of compilation: 14/07/2023         Version: 1				
	N 11: TOXICOLOGICAL INFORMATION (continued)				
B-	Inhalation (acute effect):				
	<ul> <li>Acute toxicity : Based on available data, the classification criteria ar as hazardous for inhalation. For more information see section 3.</li> <li>Corrosivity/Irritability: Based on available data, the classification crit</li> </ul>				
classified as hazardous for this effect. For more information see section 3. C- Contact with the skin and the eyes (acute effect):					
	- Contact with the skin: Based on available data, the classification crit		lowever, it contains	substance	
D-	<ul> <li>classified as hazardous for skin contact. For more information see sect</li> <li>Contact with the eyes: Based on available data, the classification cr</li> <li>classified as hazardous for this effect. For more information see section</li> <li>CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction)</li> </ul>	iteria are not met. 1 n 3.	However, it does cor	ntain subst	
	- Carcinogenicity: Based on available data, the classification criteria a as dangerous with carcinogenic effects. For more information see secti IARC: Titanium dioxide (aerodynamic diameter $\leq$ 10 µm) (2B)		er, it contains substa	ances clas	
	<ul> <li>Mutagenicity: Based on available data, the classification criteria are hazardous for this effect. For more information see section 3.</li> <li>Reproductive toxicity: Based on available data, the classification criteria</li> </ul>				
E-	classified as hazardous for this effect. For more information see section Sensitizing effects:	n 3.			
	<ul> <li>Respiratory: Based on available data, the classification criteria are n hazardous with sensitising effects. For more information see section 3.</li> <li>Skin: Based on available data, the classification criteria are not met. dangerous with sensitising effects. For more information see section 3.</li> </ul>	However, it conta			
F-	Specific target organ toxicity (STOT) - single exposure:				
G-	Based on available data, the classification criteria are not met, as it do this effect. For more information see section 3. Specific target organ toxicity (STOT)-repeated exposure:	es not contain subs	tances classified as	hazardou	
H-	<ul> <li>Specific target organ toxicity (STOT)-repeated exposure: Based on a does not contain substances classified as hazardous for this effect. Fo</li> <li>Skin: Based on available data, the classification criteria are not met, hazardous for this effect. For more information see section 3.</li> <li>Aspiration hazard:</li> </ul>	r more information	see section 3.		
Ot	Based on available data, the classification criteria are not met, as it do this effect. For more information see section 3. her information:	es not contain subs	tances classified as	hazardou	
CA to	S 13463-67-7 Titanium dioxide (aerodynamic diameter $\leq$ 10 μm): The mixtures in powder form containing 1 % or more of titanium dioxide white rodynamic diameter $\leq$ 10 μm				
Sp	ecific toxicology information on the substances:				
	Identification	Acı	ite toxicity	Ge	
Tita	Identification anium dioxide (aerodynamic diameter $\leq$ 10 $\mu$ m)	LD50 oral	ite toxicity 10000 mg/kg		
			,	F	
CA	anium dioxide (aerodynamic diameter ≤ 10 μm)	LD50 oral	10000 mg/kg	F	
CA EC	anium dioxide (aerodynamic diameter ≤ 10 μm) \S: 13463-67-7	LD50 oral LD50 dermal	10000 mg/kg 10000 mg/kg	F Ra	
CA EC Tri	anium dioxide (aerodynamic diameter ≤ 10 μm) \S: 13463-67-7 :: 236-675-5	LD50 oral LD50 dermal LC50 inhalation	10000 mg/kg 10000 mg/kg >5 mg/L	F Ra	
CA EC Tri CA	anium dioxide (aerodynamic diameter ≤ 10 μm) \S: 13463-67-7 :: 236-675-5 methoxyvinylsilane	LD50 oral LD50 dermal LC50 inhalation LD50 oral	10000 mg/kg 10000 mg/kg >5 mg/L 7236 mg/kg	F Ra	
CA EC Tri CA EC	anium dioxide (aerodynamic diameter ≤ 10 μm) \S: 13463-67-7 :: 236-675-5 methoxyvinylsilane \S: 2768-02-7	LD50 oral LD50 dermal LC50 inhalation LD50 oral LD50 dermal	10000 mg/kg 10000 mg/kg >5 mg/L 7236 mg/kg 3880 mg/kg	Ge R Ra R Ra Ra R	
CA EC Tri CA EC	anium dioxide (aerodynamic diameter ≤ 10 μm) \S: 13463-67-7 :: 236-675-5 methoxyvinylsilane \S: 2768-02-7 :: 220-449-8	LD50 oral LD50 dermal LC50 inhalation LD50 oral LD50 dermal LC50 inhalation	10000 mg/kg 10000 mg/kg >5 mg/L 7236 mg/kg 3880 mg/kg >20 mg/L	Ra Ra Ra Ra	
CA EC Tri CA EC N-(	anium dioxide (aerodynamic diameter $\leq 10 \ \mu$ m) S: 13463-67-7 :: 236-675-5 methoxyvinylsilane S: 2768-02-7 :: 220-449-8 (3-(trimethoxysilyl)propyl)ethylenediamine	LD50 oral LD50 dermal LC50 inhalation LD50 oral LC50 inhalation LD50 oral	10000 mg/kg 10000 mg/kg >5 mg/L 7236 mg/kg 3880 mg/kg >20 mg/L >5000 mg/kg	F Ra F Ra	

LD50 dermal

LC50 inhalation

16640 mg/kg

>20 mg/L

CAS: 35141-30-1

EC: 252-390-9

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SECTION 11: TOX	CICOLOGICAL INFORMATION (	continued)			
	Identification		Ac	ute toxicity	Genus
3-aminopropyltri	ethoxysilane		LD50 oral	1491 mg/kg	Rat
CAS: 919-30-2			LD50 dermal	4000 mg/kg	Rabbit
EC: 213-048-4			LC50 inhalation	>20 mg/L	
Acute Toxicit	y Estimate (ATE mix):				
	ATE mix			Ingredient(s) of unkr	nown toxicity
Oral	>2000 mg/kg (Ca	lculation method)	Non-a	applicable	
Dermal	>2000 mg/kg (Ca	lculation method)	Non-a	applicable	
Inhalation	>20 mg/L (4 h) (C	Calculation method)	Non-a	applicable	
11.2 Information of	n other hazards:				

### **11.2** Information on other hazards:

### Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

### Other information

Non-applicable

## SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

## 12.1 Toxicity:

### Acute toxicity:

Identification		Concentration	Species	Genus
Trimethoxyvinylsilane	LC50	191 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 2768-02-7	EC50	167 mg/L (48 h)	Daphnia magna	Crustacean
EC: 220-449-8	EC50	957 mg/L (72 h)	N/A	Algae
N-(3-(trimethoxysilyl)propyl)ethylenediamine	LC50	597 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 1760-24-3	EC50	81 mg/L (48 h)	Daphnia magna	Crustacean
EC: 217-164-6	EC50	8,8 mg/L (72 h)	Selenastrum capricornutum	Algae
N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine	LC50	>1 - 10 mg/L (96 h)		Fish
CAS: 35141-30-1	EC50	>1 - 10 mg/L (48 h)		Crustacean
EC: 252-390-9	EC50	>1 - 10 mg/L (72 h)		Algae
3-aminopropyltriethoxysilane	LC50	934 mg/L (96 h)	Danio rerio	Fish
CAS: 919-30-2	EC50	331 mg/L (48 h)	N/A	Crustacean
EC: 213-048-4	EC50	603 mg/L (72 h)	Desmodesmus subspicatus	Algae

Chronic toxicity:

Identification		Concentration	Species	Genus
Trimethoxyvinylsilane	NOEC	Non-applicable		
CAS: 2768-02-7 EC: 220-449-8	NOEC	28,1 mg/L	Daphnia magna	Crustacean

# 12.2 Persistence and degradability:

### Substance-specific information:

Identification	Degr	adability	Biodegrada	bility
Trimethoxyvinylsilane	BOD5	Non-applicable	Concentration	104 mg/L
CAS: 2768-02-7	COD	Non-applicable	Period	28 days
EC: 220-449-8	BOD5/COD	Non-applicable	% Biodegradable	51 %
N-(3-(trimethoxysilyl)propyl)ethylenediamine	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 1760-24-3	COD	Non-applicable	Period	28 days
EC: 217-164-6	BOD5/COD	Non-applicable	% Biodegradable	39 %
3-aminopropyltriethoxysilane	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 919-30-2	COD	Non-applicable	Period	28 days
EC: 213-048-4	BOD5/COD	Non-applicable	% Biodegradable	67 %



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SECT	TION 12: ECO	LOGICAL INFORMATION (continued)	
12.3	Bioaccumulat	ive potential:	
	Not available		
12.4	Mobility in so	il:	
	Not available		
12.5	Results of PB	T and vPvB assessment:	
	Product fails to	o meet PBT/vPvB criteria	
12.6	Endocrine dis	rupting properties:	
	Endocrine-disr	upting properties: The product fails to meet the criteria.	
12.7	Other adverse	effects:	
	Not described		
SECT		POSAL CONSIDERATIONS	
13.1	Waste treatmo	ent methods:	
	Code	Description	Waste class (Regulation (EU) No 1357/2014)
	08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09	Non dangerous
	Type of waste	e (Regulation (EU) No 1357/2014):	
	Non-applicable	ž	
	Waste manag	ement (disposal and evaluation):	
	2 (Directive 20 product, it will	thorized waste service manager on the assessment and disposal operations in a 08/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container be processed the same way as the actual product. Otherwise, it will be processed disposed of to drains. See paragraph 6.2.	has been in direct contact with the
	Regulations re	elated to waste management:	
	management a	with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state are stated gislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014	e provisions related to waste

## SECTION 14: TRANSPORT INFORMATION

**Transport of dangerous goods by land:** With regard to ADR 2021 and RID 2021:

14.1 UN number or ID number: Non-applicable 14.2 UN proper shipping name: Non-applicable 14.3 Transport hazard class(es): Non-applicable Non-applicable Labels: 14.4 Packing group: Non-applicable 14.5 Environmental hazards: No 14.6 Special precautions for user Special regulations: Non-applicable Tunnel restriction code: Non-applicable Physico-Chemical properties: see section 9 Limited quantities: Non-applicable 14.7 Maritime transport in bulk Non-applicable according to IMO instruments: Transport of dangerous goods by sea:

With regard to IMDG 40-20:



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SECTION 14: T	RANSPORT INFORMATION (	continued)
14.1	UN number or ID number:	Non-applicable
14.2		Non-applicable
14.3		Non-applicable
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Marine pollutant:	No
14.6	Special precautions for user	
	Special regulations:	Non-applicable
	EmS Codes:	
	Physico-Chemical properties:	see section 9
	Limited quantities:	Non-applicable
	Segregation group:	Non-applicable
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable
Transpo	rt of dangerous goods by air:	
With rega	ard to IATA/ICAO 2023:	
14.1	UN number or ID number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4	0000	Non-applicable
14.5	Environmental hazards:	No
14.6	Special precautions for user	
	Physico-Chemical properties:	see section 9
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable

## SECTION 15: REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

### Seveso III:

### Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....): Non-applicable

### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

### Other legislation:

The product could be affected by sectorial legislation

### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

## SECTION 16: OTHER INFORMATION

### Legislation related to safety data sheets:



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SECTION 16: OTHE	ER INFORMATION (continued)	
has been desigr (COMMISSION	ned in accordance with ANNEX II-Guide REGULATION (EU) 2020/878).	e country where the product is placed on the market. This safety data sheet to the compilation of safety data sheets of Regulation (EC) No 1907/2006
	related to the previous Safety Data SI	heet which concerns the ways of managing risks.:
Non-applicable	gislative phrases mentioned in sectio	n 2·
The phrases ind components wh	licated do not refer to the product itself; iich appear in section 3	they are present merely for informative purposes and refer to the individual
	n (EC) No 1272/2008: 302 - Harmful if swallowed.	
	c 2: H411 - Toxic to aquatic life with long	g lasting effects.
	Suspected of causing cancer (Inhalation	n).
	18 - Causes serious eye damage. 226 - Flammable liquid and vapour.	
	H314 - Causes severe skin burns and ey	e damage.
Skin Sens. 1: H	317 - May cause an allergic skin reactio	n.
	H317 - May cause an allergic skin reacti	ion.
Classification p		
Non-applicable		
Advice related	-	ricks for staff using this product and to facilitate their comprehension and
interpretation of	f this safety data sheet, as well as the la	risks for staff using this product and to facilitate their comprehension and abel on the product.
	ographical sources:	
http://echa.euro		
http://eur-lex.eu	•	
	and acronyms:	Laswings of departure goods by road
	agreement concerning the international onal maritime dangerous goods code	t carriage of daligerous goods by road
	nal Air Transport Association	
ICAO: Internatio	onal Civil Aviation Organisation	
COD: Chemical	Oxygen Demand	
BOD5: 5day bio BCF: Bioconcen	ochemical oxygen demand	
LD50: Lethal Do		
LC50: Lethal Co		
	concentration 50	
	nolwater partition coefficient	
	pefficient of organic carbon	
UFI: unique form	nula identifier onal Agency for Research on Cancer	

Product safety information sheet prepared in accordance with Article 32 of Regulation (EC) 1907/2006 (REACH); this document does not constitute a Safety Data Sheet under Article 31 of Regulation (EC) No. 1907/2006, as a Safety Data Sheet is not mandatory for this product The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF DOCUMENT



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SEC1	TION 1: IDENTIFICATI	ON OF THE SUBS	ANCE/MIXTURE AND OF THE COMPA	ANY/UNDERTAKING				
1.1	Product identifier:	CH(	231T* - SILICONE NEUTRAL ULTIMATE AYT	CHEMISIL				
	Other means of identifi	cation:						
	UFI:	QT1	)-Y093-100D-QN3K					
1.2	Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant uses: Sealant							
	Uses advised against: Al	l uses not specified in	this section or in section 7.3					
1.3	Details of the supplier	of the safety data sh	eet:					
	Lusavouga Avenida Europa, 375 3800-533 Aveiro - Cacia Phone: +351 234 915 01 lusavouga@lusavouga.p www.chemitool.com	10 - Fax: +351 234 91 ht						
1.4	Emergency telephone	number: CIAV 800 2	50 250					
SEC1	TION 2: HAZARDS IDE	NTIFICATION						
2.1	Classification of the su	bstance or mixture:						
	CLP Regulation (EC) No	o 1272/2008:						
	The product is not class	ified as hazardous ac	ording to CLP Regulation (EC) No 1272/2008					
2.2	Label elements:							
	CLP Regulation (EC) No 1272/2008:							
	Hazard statements:							
	Non-applicable	ntc.						
	Precautionary stateme Non-applicable	nts:						
	Supplementary inform	ation:						
	,	inopropyltriethoxysila tion. eet available on reque	ne, N-(3-(trimethoxysilyl)propyl)ethylenediam st.	ne, Trimethoxyvinylsilane.	Мау			
2.3	Other hazards:							
	Product fails to meet PB							
	Endocrine-disrupting pro	perues: The product i						
SECT								
SEC		N/INFORMATION	IN INGREDIENTS					
3.1	Substance:							
	Non-applicable							
3.2	Mixture:							
	Chemical description:	Mixture of substance						
	Components:	y II of Regulation (FC	No 1907/2006 (point 3), the product contains	s.				
					Concontration			
	Identification CAS: 919-30-2	3-aminopropyltriethoxy	Chemical name/Classification	Self-classified	Concentration			
	EC: 213-048-4 Index: 612-108-00-0 REACH: 01-2119480479-24- XXXX		cute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317 - [	A A	0,5 - <1 %			
	<sup>1</sup> Substances presenting a healt	h or environmental hazard w	ch meet criteria laid down in Regulation (EU) No. 2020/878					



SE

## CH0231T\* - SILICONE NEUTRAL ULTIMATE AYT CHEMISIL

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	Identification		Chemical name/Classification		Concentratio
	2768-02-7 220-449-8	Trimethoxyvinylsilan	e <sup>1</sup>	ATP ATP15	
Index: REACH:	220-449-8 014-049-00-0 01-2119513215-52- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; Skin Sens. 1B: H317 - Warning	() ()	0,5 - <1 %
CAS: 1760-24-3		propyl)ethylenediamine <sup>1</sup>	Self-classified		
Index: REACH:	217-164-6 Non-applicable 01-2119970215-39- XXXX	Regulation 1272/2008	Eye Dam. 1: H318; Skin Sens. 1: H317 - Danger	$\langle t \rangle \diamondsuit$	0,1 - <0,5 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

# SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product. By inhalation:

### This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

### By skin contact:

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or if necessary shower the affected person thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

### By eve contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

### By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

### Most important symptoms and effects, both acute and delayed: 4.2

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

### SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

### Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

### Advice for firefighters: 5.3

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.



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### SECTION 5: FIREFIGHTING MEASURES (continued)

### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

### 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

### 6.4 Reference to other sections:

See sections 8 and 13.

### SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

- D.- Technical recommendations to prevent environmental risks
  - It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

### 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.:	5 °C
Maximum Temp.:	30 °C

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.



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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 **Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

### **DNEL (Workers):**

Systemic Non-applicable	Local Non-applicable
	Non-applicable
2 mg/kg	Non-applicable
14 mg/m <sup>3</sup>	Non-applicable
Non-applicable	Non-applicable
3,9 mg/kg	Non-applicable
27,6 mg/m <sup>3</sup>	Non-applicable
2	e 3,9 mg/kg

### **DNEL (General population):**

		Short e	xposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
3-aminopropyltriethoxysilane	Oral	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
CAS: 919-30-2	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
EC: 213-048-4	Inhalation	Non-applicable	Non-applicable	3,5 mg/m <sup>3</sup>	Non-applicable
Trimethoxyvinylsilane	Oral	Non-applicable	Non-applicable	0,3 mg/kg	Non-applicable
CAS: 2768-02-7	Dermal	Non-applicable	Non-applicable	7,8 mg/kg	Non-applicable
EC: 220-449-8	Inhalation	Non-applicable	Non-applicable	18,9 mg/m <sup>3</sup>	Non-applicable

### PNFC:

Identification				
3-aminopropyltriethoxysilane	STP	1,3 mg/L	Fresh water	Non-applicable
CAS: 919-30-2	Soil	Non-applicable	Marine water	Non-applicable
EC: 213-048-4	Intermittent	Non-applicable	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
N-(3-(trimethoxysilyl)propyl)ethylenediamine	STP	25 mg/L	Fresh water	0,062 mg/L
CAS: 1760-24-3	Soil	0,009 mg/kg	Marine water	0,006 mg/L
EC: 217-164-6	Intermittent	0,62 mg/L	Sediment (Fresh water)	0,22 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,022 mg/kg

### 8.2 **Exposure controls:**

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

### B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+ A1:2010 and EN ISO 374-1:2016+A1:2018

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection



ECTION	8: EXPOSURE	CONTROLS/PERSO	NAL PROTECTI	ON (continued)		
	Pictogram	PPE	Labelling	CEN Standard	R	emarks
	Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2002 EN ISO 4007:2018	the manufacturer's inst	ect periodically according to tructions. Use if there is a ris splashing.
E	Body protection					
	Pictogram	PPE	Labelling	CEN Standard	R	emarks
		Work clothing	CATI		periods of prolonged professional/industrial in accordance with 6529:2013, EN I	vidence of deterioration. For exposure to the product for users CE III is recommended the regulations in EN ISO SO 6530:2005, EN ISO .3, EN 464:1994.
		Anti-slip work shoes		EN ISO 20347:2012	periods of prolonged professional/industrial in accordance with	vidence of deterioration. For exposure to the product for users CE III is recommended the regulations in EN ISO y EN 13832-1:2007
F	Additional emerger	ncy measures				
	Emergency meas	sure Sta	andards	Emergency meas	sure	Standards
	Emergency show	ISO 3864-1:201	6  Z358-1 L1, ISO 3864-4:2011	Eyewash statio		DIN 12 899 L:2011, ISO 3864-4:2011
Env	/ironmental expos	sure controls:				
	•		an tha musta ation .	af the environment it i	s recommended to av	unial any discommental

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	0 % weight
V.O.C. density at 20 °C:	0 kg/m <sup>3</sup> (0 g/L)
Average carbon number:	Non-applicable
Average molecular weight:	Non-applicable

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Paste
Colour:	According to the markings on the package
Odour:	Characteristic
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	Non-applicable *
Vapour pressure at 20 °C:	Non-applicable *
Vapour pressure at 50 °C:	Non-applicable *
Evaporation rate at 20 °C:	Non-applicable *
*Not relevant due to the nature of the product, not providing inform	ation property of its hazards.

- CONTINUED ON NEXT PAGE -



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SEC	TION 9: PHYSI	CAL AND CHEMICAL PROPERTI	ES (continued)
	Product descri	iption:	
	Density at 20 °C		~1 kg/m³
	Relative density	/ at 20 °C:	Non-applicable *
	Dynamic viscos	ity at 20 °C:	Non-applicable *
	Kinematic visco	sity at 20 °C:	Non-applicable *
	Kinematic visco	sity at 40 °C:	≈8280 mm²/s
	Concentration:		Non-applicable *
	pH:		Non-applicable *
	Vapour density	at 20 °C:	Non-applicable *
	Partition coeffic	ient n-octanol/water 20 °C:	Non-applicable *
	Solubility in wat	ter at 20 °C:	Non-applicable *
	Solubility prope	erties:	Non-applicable *
	Decomposition	temperature:	Non-applicable *
	Melting point/fr	eezing point:	Non-applicable *
	Flammability:		
	Flash Point:		>100 °C
	Flammability (s	olid, gas):	Non-applicable *
	Autoignition ten	nperature:	>235 °C
	Lower flammab	ility limit:	Non-applicable *
	Upper flammab	ility limit:	Non-applicable *
	Particle charac	cteristics:	
	Median equival	ent diameter:	Non-applicable
9.2	Other informat	tion:	
	Information wi	th regard to physical hazard classes	:
	Explosive prope	erties:	Non-applicable *
	Oxidising prope	erties:	Non-applicable *
	Corrosive to me	etals:	Non-applicable *
	Heat of combus	stion:	Non-applicable *
	Aerosols-total p components: Other safety cl	percentage (by mass) of flammable haracteristics:	Non-applicable *
	Surface tension	at 20 °C:	Non-applicable *
	Refraction inde	x:	Non-applicable *
	*Not relevant due t	to the nature of the product, not providing inform	nation property of its hazards.

# SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

# 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:



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SECTION 10: STABILITY AND REACTIVITY (continued)						
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity	
	Not applicable	Not applicable	Precaution	Precaution	Not applicable	
10.5	Incompatible materials:					
	Acids	Water	Oxidising materials	Combustible materials	Others	
	Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases	

### Hazardous decomposition products: 10.6

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO), carbon monoxide and other organic compounds.

# SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

The experimental information related to the toxicological properties of the product itself is not available

### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
  - Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3. IARC: Non-applicable
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
    - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as
  - hazardous for this effect. For more information see section 3.



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SECTION 11: TOX	ICOLOGICAL INFORMATION (cor	ntinued)				
H- Aspiration	nazard:					
	vailable data, the classification criteria a For more information see section 3. I <b>tion:</b>	are not met, as it doe	s not contain subs	tances classified as l	hazardous for	
Non-applicable	Non-applicable					
Specific toxic	ology information on the substances	:				
	Identification		Acu	ite toxicity	Genus	
3-aminopropyltrie	ethoxysilane		LD50 oral	1491 mg/kg	Rat	
CAS: 919-30-2			LD50 dermal	4000 mg/kg	Rabbit	

CAS: 919-30-2	LD50 dermal	4000 mg/kg	Rabbit
EC: 213-048-4	LC50 inhalation	>20 mg/L	
Trimethoxyvinylsilane	LD50 oral	7236 mg/kg	Rat
CAS: 2768-02-7	LD50 dermal	3880 mg/kg	Rabbit
EC: 220-449-8	LC50 inhalation	>20 mg/L	
N-(3-(trimethoxysilyl)propyl)ethylenediamine	LD50 oral	>5000 mg/kg	Rat
CAS: 1760-24-3	LD50 dermal	>2000 mg/kg	
EC: 217-164-6	LC50 inhalation	>20 mg/L	

### Acute Toxicity Estimate (ATE mix):

	Ingredient(s) of unknown toxicity	
Oral	>2000 mg/kg (Calculation method)	Non-applicable
Dermal	>2000 mg/kg (Calculation method)	Non-applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable

### **11.2** Information on other hazards:

### **Endocrine disrupting properties**

Endocrine-disrupting properties: The product fails to meet the criteria.

### Other information

Non-applicable

## SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

### 12.1 Toxicity:

## Acute toxicity:

Identification		Concentration	Species	Genus
3-aminopropyltriethoxysilane	LC50	934 mg/L (96 h)	Danio rerio	Fish
CAS: 919-30-2	EC50	331 mg/L (48 h)	N/A	Crustacean
EC: 213-048-4	EC50	603 mg/L (72 h)	Desmodesmus subspicatus	Algae
Trimethoxyvinylsilane	LC50	191 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 2768-02-7	EC50	167 mg/L (48 h)	Daphnia magna	Crustacean
EC: 220-449-8	EC50	957 mg/L (72 h)	N/A	Algae
N-(3-(trimethoxysilyl)propyl)ethylenediamine	LC50	597 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 1760-24-3	EC50	81 mg/L (48 h)	Daphnia magna	Crustacean
EC: 217-164-6	EC50	8,8 mg/L (72 h)	Selenastrum capricornutum	Algae
Chronic toxicity:				
Identification		Concentration	Species	Genus
Trimethoxyvinylsilane	NOEC	Non-applicable		
CAS: 2768-02-7 EC: 220-449-8	NOEC	28,1 mg/L	Daphnia magna	Crustacean
Persistence and degradability:				
Substance-specific information:				

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12.2

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Identification	De	gradability	Bioc	legradability
3-aminopropyltriethoxysilane	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 919-30-2	COD	Non-applicable	Period	28 days
EC: 213-048-4	BOD5/COD	Non-applicable	% Biodegradable	67 %
Trimethoxyvinylsilane	BOD5	Non-applicable	Concentration	104 mg/L
CAS: 2768-02-7	COD	Non-applicable	Period	28 days
EC: 220-449-8	BOD5/COD	Non-applicable	% Biodegradable	51 %
N-(3-(trimethoxysilyl)propyl)ethylenediamine	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 1760-24-3	COD	Non-applicable	Period	28 days
EC: 217-164-6	BOD5/COD	Non-applicable	% Biodegradable	39 %
Bioaccumulative potential:				

Not available

## 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

### 12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product fails to meet the criteria.

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### 12.7 Other adverse effects:

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09	Non dangerous

### Type of waste (Regulation (EU) No 1357/2014):

Non-applicable

### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

### **Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

## SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land: With regard to ADR 2021 and RID 2021:



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SECTION 14: T	RANSPORT INFORMATION (	(continued)
	UN number or ID number:	Non-applicable
	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Environmental hazards:	No
14.6	Special precautions for user	
	Special regulations:	Non-applicable
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	see section 9
	Limited quantities:	Non-applicable
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable
Transpo	rt of dangerous goods by sea:	
With rega	rd to IMDG 40-20:	
14.1	UN number or ID number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4		Non-applicable
14.5	Marine pollutant:	No
14.6	Special precautions for user	
	Special regulations:	Non-applicable
	EmS Codes:	
	Physico-Chemical properties:	see section 9
	Limited quantities:	Non-applicable
	Segregation group:	Non-applicable
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable
Transpo	rt of dangerous goods by air:	
With rega	rd to IATA/ICAO 2023:	
14.1	UN number or ID number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Environmental hazards:	No
14.6	Special precautions for user	
	Physico-Chemical properties:	see section 9
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable

# SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture:
	Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable
	Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable
	Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable
	Article 95, REGULATION (EU) No 528/2012: Non-applicable
	REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable
	Seveso III:
	Non-applicable

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### SECTION 15: REGULATORY INFORMATION (continued)

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....): Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product

### Other legislation:

The product could be affected by sectorial legislation

### Chemical safety assessment: 15.2

The supplier has not carried out evaluation of chemical safety.

### SECTION 16: OTHER INFORMATION

### Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

# Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

# Non-applicable

### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

### CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed.

Eye Dam. 1: H318 - Causes serious eye damage.

Flam. Lig. 3: H226 - Flammable liquid and vapour.

Skin Corr. 1B: H314 - Causes severe skin burns and eve damage.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

### **Classification procedure:**

Non-applicable

### Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

### Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon UFI: unique formula identifier IARC: International Agency for Research on Cancer

Product safety information sheet prepared in accordance with Article 32 of Regulation (EC) 1907/2006 (REACH); this document does not constitute a Safety Data Sheet under Article 31 of Regulation (EC) No. 1907/2006, as a Safety Data Sheet is not mandatory for this product

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified

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