

According to COMMISSION REGULATION (EU) 2020/878

### **Top Coat**



Date of compilation: 04/01/2023 Revised: 05/10/2023 Version: 2 (Replaced 1)

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: Ceramic Top Coat

Other means of identification:

UFI: FCR3-M0S8-100H-441F

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

Relevant uses: Vehicle Underseal; water repeller. For professional users/industrial user only.

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:

GARDX INTERNATIONAL LTD LAKE HOUSE, 2 PORT WAY, PORT SOLENT, PO6 4TY PORTSMOUTH - UNITED KINGDOM Phone: +44 (0)1243 376426 product@gardx.co.uk www.gardx.co.uk

AUTOMOTOSOL S.R.O RYBNÁ 716/24 PRAHA 1 110 00 CZECH REPUBLIC

+420 222 703288

1.4 Emergency telephone number: CNN: 1012486. For 24/7 multilingual advice for spill, leak, fire, exposure, or accident call chemtrec @ +44

2038850382. Emergency medical information: (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Members of the public Number (8am-10pm): +353 (0)1 809

2166. Healthcare professional telephone Number (24hrs): +353 (0)1 809 2566

# SECTION 2: HAZARDS IDENTIFICATION \*\*

# 2.1 Classification of the substance or mixture:

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

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Acute Tox. 4: Acute inhalation toxicity, Category 4, H332

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412

Asp. Tox. 1: Aspiration hazard, Category 1, H304

Eye Dam. 1: Serious eye damage, Category 1, H318

Flam. Liq. 3: Flammable liquids, Category 3, H226

Skin Corr. 1B: Skin corrosion, Category 1B, H314

Skin Sens. 1: Sensitisation, skin, Category 1, H317

STOT RE 1: Specific target organ toxicity — Repeated exposure, Hazard Category 1 (Inhalation), H372

## 2.2 Label elements:

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

### Danger









### **Hazard statements:**

Acute Tox. 4: H332 - Harmful if inhaled.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

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

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

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

STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure (Inhalation). Organs affected: Central nervous system.

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<sup>\*\*</sup> Changes with regards to the previous version



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## SECTION 2: HAZARDS IDENTIFICATION \*\* (continued)

### **Precautionary statements:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/face protection.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

#### Substances that contribute to the classification

Hydrocarbons, C10-C13,n-alkanes, iso-alkanes, cyclics, aromatics (2-25 %); Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanam (CAS: 475645-84-2); 3-aminopropyltriethoxysilane (CAS: 919-30-2)

### 2.3 Other hazards:

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance:

Non-applicable

### 3.2 Mixture:

Chemical description: Mixture of polymers, dispersants and organic compounds

## Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification					
CAS:	Non-applicable	Hydrocarbons, C10-C13,n	-alkanes, iso-alkanes, cyclics, aromatics (2-25 %) <sup>(1)</sup> Self-classified					
EC: Index: REACH:	919-164-8 Non-applicable 01-2119473977-17-XXXX	Regulation 1272/2008	Aquatic Chronic 3: H412; Asp. Tox. 1: H304; STOT RE 1: H372; EUH066 - Danger	75 - <100 %				
CAS: EC:	475645-84-2 Non-applicable		rclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products Self-classified ith 3-(triethoxysilyl)-1-propanam <sup>(1)</sup>					
Index: Non-applicable REACH: Non-applicable		Regulation 1272/2008  Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Flam. Liq. 2: H225; Skin Corr. 1B: H314; Water-react. 3: H261 - Danger						
CAS:	919-30-2	3-aminopropyltriethoxys	slane <sup>(1)</sup> Self-classified					
EC: Index: REACH:	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	1 - <3 %				
CAS:	123-86-4	N-butyl acetate <sup>(2)</sup>	ATP CLP00					
EC: 204-658-1 Index: 607-025-00-1 REACH: 01-2119485493-29-XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	<1 %					

<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.

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acu	Genus	
Hydrocarbons, C10-C13,n-alkanes, iso-alkanes, cyclics, aromatics (2-25 %)	LD50 oral	15000 mg/kg	Rat
CAS: Non-applicable	LD50 dermal	3400 mg/kg	Rabbit
EC: 919-164-8	LC50 inhalation	Not relevant	

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<sup>(2)</sup> Substance with a Union workplace exposure limit



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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Acute toxicity		Genus
3-aminopropyltriethoxysilane	LD50 oral	1491 mg/kg	Rat
CAS: 919-30-2	LD50 dermal	Not relevant	
EC: 213-048-4	LC50 inhalation	Not relevant	

### **SECTION 4: FIRST AID MEASURES**

### 4.1 Description of first aid measures:

Request medical assistance immediately, showing the SDS of this product.

#### By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

### 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:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

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

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

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

Not relevant

### SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

### Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

## Unsuitable extinguishing media:

Water jet

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

Contains substances that react with water producing extremely flammable gases.

## 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:

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## SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

### 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 at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

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

DO NOT USE WATER TO CLEAN.

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. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

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

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137 / The Dangerous Substances and Explosive Atmospheres Regulations 2002, 2002 No. 2776). 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

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

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

A.- Technical measures for storage

Minimum Temp.: 4 °C

Maximum Temp.: 40 °C

B.- General conditions for storage

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

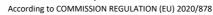
# 7.3 Specific end use(s):

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:

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

Substances whose occupational exposure limits have to be monitored in the workplace:

2021 Code of Practice for the Chemical Agents Regulations:

Identification	Occupational exposure limits		
N-butyl acetate	OEL (8h)	50 ppm	241 mg/m <sup>3</sup>
CAS: 123-86-4 EC: 204-658-1	OEL (15 min)	150 ppm	723 mg/m <sup>3</sup>

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

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
3-aminopropyltriethoxysilane	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 919-30-2	Dermal	Not relevant	Not relevant	2 mg/kg	Not relevant
EC: 213-048-4	Inhalation	Not relevant	Not relevant	14 mg/m³	Not relevant
N-butyl acetate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 123-86-4	Dermal	11 mg/kg	Not relevant	11 mg/kg	Not relevant
EC: 204-658-1	Inhalation	600 mg/m <sup>3</sup>	600 mg/m <sup>3</sup>	300 mg/m <sup>3</sup>	300 mg/m <sup>3</sup>

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

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
3-aminopropyltriethoxysilane	Oral	Not relevant	Not relevant	1 mg/kg	Not relevant
CAS: 919-30-2	Dermal	Not relevant	Not relevant	1 mg/kg	Not relevant
EC: 213-048-4	Inhalation	Not relevant	Not relevant	3.5 mg/m <sup>3</sup>	Not relevant
N-butyl acetate	Oral	2 mg/kg	Not relevant	2 mg/kg	Not relevant
CAS: 123-86-4	Dermal	6 mg/kg	Not relevant	6 mg/kg	Not relevant
EC: 204-658-1	Inhalation	300 mg/m <sup>3</sup>	300 mg/m <sup>3</sup>	35.7 mg/m <sup>3</sup>	35.7 mg/m <sup>3</sup>

### PNEC:

Identification				
3-aminopropyltriethoxysilane	STP	1.3 mg/L	Fresh water	Not relevant
CAS: 919-30-2	Soil	Not relevant	Marine water	Not relevant
EC: 213-048-4	Intermittent	Not relevant	Sediment (Fresh water)	Not relevant
	Oral	Not relevant	Sediment (Marine water)	Not relevant
N-butyl acetate	STP	35.6 mg/L	Fresh water	0.18 mg/L
CAS: 123-86-4	Soil	0.09 mg/kg	Marine water	0.018 mg/L
EC: 204-658-1	Intermittent	0.36 mg/L	Sediment (Fresh water)	0.981 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.098 mg/kg

# 8.2 Exposure controls:

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

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have CE marking in accordance with Directive 2016/425/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional 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

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours (Filter type: A2)	CAT III	EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands



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

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	NON-disposable chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.15 mm, Conditions of use: Normal)	CAT III	EN ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018 EN ISO 21420:2020	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.
Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.15 mm, Conditions of use: Normal)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

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	Face shield	CATII	EN 166:2002 EN 167:2002 EN 168:2002 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
Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	CAT III	EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
	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.
Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties	CAT III	EN ISO 13287:2020 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

# F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
+	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	+	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

### **Environmental exposure controls:**

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

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties:

Appearance:

Physical state at 20 °C: Liquid
Appearance: Transparent
Color: Yellowish

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECT	TON 9: PHYSICAL AND CHEMICAL PROPERTIES (co	ntinued)
	Odor:	Ammoniacal
	Odour threshold:	Not relevant *
	Volatility:	
	Boiling point at atmospheric pressure:	190 ℃
	Vapour pressure at 20 °C:	32 Pa
	Vapour pressure at 50 °C:	214.91 Pa (0.21 kPa)
	Evaporation rate at 20 °C:	Not relevant *
	Product description:	
	Density at 20 ºC:	817.2 kg/m³
	Relative density at 20 ºC:	0.807 - 0.827
	Dynamic viscosity at 20 °C:	Not relevant *
	Kinematic viscosity at 20 °C:	Not relevant *
	Kinematic viscosity at 40 °C:	<20.49 mm²/s
	Concentration:	Not relevant *
	pH:	Not relevant *
	Vapour density at 20 ºC:	Not relevant *
	Partition coefficient n-octanol/water 20 ºC:	Not relevant *
	Solubility in water at 20 ºC:	Not relevant *
	Solubility properties:	Not relevant *
	Decomposition temperature:	Not relevant *
	Melting point/freezing point:	Not relevant *
	Flammability:	
	Flash Point:	~32 <u>°</u> C
	Flammability (solid, gas):	Not relevant *
	Autoignition temperature:	300 ºC
	Lower flammability limit:	Not available
	Upper flammability limit:	Not available
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard classes:	
	Explosive properties:	Not relevant *
	Oxidising properties:	Not relevant *
	Corrosive to metals:	Not relevant *
	Heat of combustion:	Not relevant *
	Aerosols-total percentage (by mass) of flammable	Not relevant *

### **SECTION 10: STABILITY AND REACTIVITY**

\*Not relevant due to the nature of the product, not providing information property of its hazards.

Other safety characteristics: Surface tension at 20 °C:

10.1 Reactivity:

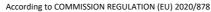
components:

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Not relevant \*

Not relevant \*





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### SECTION 10: STABILITY AND REACTIVITY (continued)

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

### 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 Increa		Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Precaution

#### 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Precaution	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 ( $CO_2$ ), 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: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.
- B- Inhalation (acute effect):
  - Acute toxicity: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
  - Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
  - Contact with the eyes: Produces serious eye damage after contact.
- 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.
  - 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: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

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#### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Serious health effects in the case of prolonged inhalation, including death, serious functional disorders or morphological changes of toxicological importance. Organs affected: Central nervous system.
  - Skin: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
- H- Aspiration hazard:

May be fatal if swallowed and enters airways.

#### Other information:

Not relevant

### Specific toxicology information on the substances:

Identification	A	cute toxicity	Genus
3-aminopropyltriethoxysilane	LD50 oral	1491 mg/kg (ATEi)	Rat
CAS: 919-30-2	LD50 dermal	4000 mg/kg	Rabbit
EC: 213-048-4	LC50 inhalation		
Hydrocarbons, C10-C13,n-alkanes, iso-alkanes, cyclics, aromatics (2-25 %)	LD50 oral	15000 mg/kg	Rat
CAS: Non-applicable	LD50 dermal	3400 mg/kg	Rabbit
EC: 919-164-8	LC50 inhalation	>13.1 mg/L (4 h)	Rat
Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanam	LD50 oral	>301 mg/kg	Rat
CAS: 475645-84-2	LD50 dermal		
EC: Non-applicable	LC50 inhalation		
N-butyl acetate	LD50 oral	12789 mg/kg	Rat
CAS: 123-86-4	LD50 dermal	14112 mg/kg	Rabbit
EC: 204-658-1	LC50 inhalation	23.4 mg/L (4 h)	Rat

### 11.2 Information on other hazards:

### **Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

# Other information

Not relevant

# **SECTION 12: ECOLOGICAL INFORMATION**

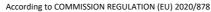
The experimental information related to the eco-toxicological properties of the product itself is not available Harmful to aquatic life with long lasting effects.

### 12.1 Toxicity:

# Acute toxicity:

Identification		Concentration	Species	Genus
Hydrocarbons, C10-C13,n-alkanes, iso-alkanes, cyclics, aromatics (2-25 %)	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: Non-applicable	EC50	>10 - 100 mg/L (48 h)		Crustacean
EC: 919-164-8	EC50	>10 - 100 mg/L (72 h)		Algae
Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanam	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 475645-84-2	EC50	>10 - 100 mg/L (48 h)		Crustacean
EC: Non-applicable	EC50	>10 - 100 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

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#### SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Species	Genus
N-butyl acetate	LC50	18 mg/L (96 h)	Pimephales promelas	Fish
CAS: 123-86-4	EC50	44 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-658-1	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae

### **Chronic toxicity:**

Identification	Concentration		Species	Genus
N-butyl acetate	NOEC	Not relevant		
CAS: 123-86-4 EC: 204-658-1	NOEC	23.2 mg/L	Daphnia magna	Crustacean

### 12.2 Persistence and degradability:

### **Substance-specific information:**

Identification	Degradability		Biodegradability		
3-aminopropyltriethoxysilane	BOD5	Not relevant	Concentration	Not relevant	
CAS: 919-30-2	COD	Not relevant	Period	28 days	
EC: 213-048-4	BOD5/COD	Not relevant	% Biodegradable	67 %	
N-butyl acetate	BOD5	Not relevant	Concentration	Not relevant	
CAS: 123-86-4	COD	Not relevant	Period	5 days	
EC: 204-658-1	BOD5/COD	Not relevant	% Biodegradable	84 %	

#### 12.3 Bioaccumulative potential:

### Substance-specific information:

Identification	Bioaccumulation potential		
N-butyl acetate	BCF	4	
CAS: 123-86-4	Pow Log	1.78	
EC: 204-658-1	Potential	Low	

## 12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
N-butyl acetate	Кос	Not relevant	Henry	Not relevant
CAS: 123-86-4	Conclusion	Not relevant	Dry soil	Not relevant
EC: 204-658-1	Surface tension	2.478E-2 N/m (25 ºC)	Moist soil	Not relevant

### 12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

## 12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

### 12.7 Other adverse effects:

Not described

# **SECTION 13: DISPOSAL CONSIDERATIONS**

# 13.1 Waste treatment methods:

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

Not relevant

## 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/EU) 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-hazardous 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

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# SECTION 14: TRANSPORT INFORMATION \*\*

### Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:



**14.1 UN number or ID number:** UN3470

**14.2 UN proper shipping name:** PAINT, CORROSIVE, FLAMMABLE

14.3Transport hazard class(es):8Labels:8, 314.4Packing group:II14.5Environmental hazards:No

14.6 Special precautions for user

Special regulations: 163, 367
Tunnel restriction code: D/E

Physico-Chemical properties: see section 9

Limited quantities: 1 L

14.7 Maritime transport in bulk Not relevant according to IMO instruments:

### Transport of dangerous goods by sea:

With regard to IMDG 41-22:



14.1 UN number or ID number: UN3470

**14.2 UN proper shipping name:** PAINT, CORROSIVE, FLAMMABLE

 14.3
 Transport hazard class(es):
 8

 Labels:
 8, 3

 14.4
 Packing group:
 II

 14.5
 Marine pollutant:
 No

14.6 Special precautions for user

Special regulations:163, 367EmS Codes:F-E, S-CPhysico-Chemical properties:see section 9

Limited quantities: 1 L

Segregation group: Not relevant

14.7 Maritime transport in bulk Not relevant according to IMO instruments:

### Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:



14.1 UN number or ID number: UN3470

L4.2 UN proper shipping name: PAINT, CORROSIVE, FLAMMABLE

 14.3
 Transport hazard class(es):
 8

 Labels:
 8, 3

 14.4
 Packing group:
 II

 14.5
 Environmental hazards:
 No

14.5 Environmental hazards:14.6 Special precautions for user

Physico-Chemical properties: see section 9 **14.7 Maritime transport in bulk** Not relevant

according to IMO instruments:

## **SECTION 15: REGULATORY INFORMATION**

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

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

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## SECTION 15: REGULATORY INFORMATION (continued)

### Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c		5000	50000

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

Shall not be used in

- —ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- -tricks and jokes,
- —games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

#### 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:

Chemicals (Amendment) Act 2010 (No. 32 of 2010) as amended by S.I. No. 623/2015- Safety, Health and Welfare at Work (Chemical Agents) (Amendment) Regulations 2015

Chemicals Act 2008 (No. 13 of 2008)

Safety, Health and Welfare (chemical agents) (amendment) regulations 2021 (S.I. No. 232 of 2021) and associated Code of Practice Chemical Agents Regulations (S.I. No. 619 of 2001)

European Communities (Waste Directive) Regulations, S.I. No. 126 of 2011

S.I. No. 315/2016 - European Union (Waste Directive) (Amendment) Regulations 2016.

S.I. No. 323/2020 - European Union (Waste Directive) Regulations 2020

Chemicals Act (Control of Major Accident Hazards involving Dangerous Substances) Regulations 2015 (S.I. No. 209 of 2015)

The Chemicals Act (CLP Regulation) Regulations 2011 (S.I. No. 102 of 2011)

#### 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:

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.:

Substances that contribute to the classification (SECTION 2):

- · New declared substances
  - 3-aminopropyltriethoxysilane (919-30-2)
- Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanam (475645-84-2)

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- · Hazard statements
- TRANSPORT INFORMATION (SECTION 14):
  - · UN number

# Texts of the legislative phrases mentioned in section 2:

- H314: Causes severe skin burns and eye damage.
- H318: Causes serious eye damage.
- H412: Harmful to aquatic life with long lasting effects.
- H317: May cause an allergic skin reaction.
- H372: Causes damage to organs through prolonged or repeated exposure (Inhalation). Organs affected: Central nervous system.
- H332: Harmful if inhaled.
- H304: May be fatal if swallowed and enters airways.
- H226: Flammable liquid and vapour.

### 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:

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### SECTION 16: OTHER INFORMATION \*\* (continued)

Acute Tox. 4: H302 - Harmful if swallowed.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

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

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

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

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

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

STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure (Inhalation).

STOT SE 3: H336 - May cause drowsiness or dizziness.

Water-react. 3: H261 - In contact with water releases flammable gases.

### Classification procedure:

Skin Corr. 1B: Calculation method
Eye Dam. 1: Calculation method
Aquatic Chronic 3: Calculation method
Skin Sens. 1: Calculation method
STOT RE 1: Calculation method
Acute Tox. 4: Calculation method
Asp. Tox. 1: Calculation method

Flam. Liq. 3: Calculation method (2.6.4.3)

#### 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

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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