Safety data sheet (English translation without any country-specific legislation)
according to Regulation (EC) No 1907/2006, Article 31

Printing date 05.06.2025 Rev. 1 Revision: 05.06.2025

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

· **1.1 Product identifier**
· **Trade name: PIXEL PRECISION comp A**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against** Two-component adhesive.

· **Application of the substance / the mixture** adhesive with very high technical performance

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Litokol Lab S.p.A.
Via G.Falcone, 13/1
42048 Rubiera (RE) - Italia
Tel. +39 0522 626391 - Fax. +39 0522 620150

· **Further information obtainable from:** Litokol Lab S.p.A. - Email: productsafety@litokol.com

· **1.4 Emergency telephone number:**
ITALY - POISONS CENTRES (24h / 365d):
• Milano - Azienda Ospedaliera Niguarda Ca' Granda - Tel. +39 02 66101029
• Pavia - Centro Nazionale d'Informazione Tossicologica - IRCCS Fondazione Salvatore Maugeri Clinica del Lavoro e della riabilitazione - Tel. +39 0382 24444
• Firenze - Azienda Ospedaliera Universitaria "Careggi" U.O. Tossicologia Medica - Tel. +39 055 7947819
• Bergamo - Azienda Ospedaliera "Papa Giovanni XXIII", tossicologia clinica - Tel. +39 800 883300
• Roma - CAV Policlinico "Umberto I", PRGM tossicologia d'urgenza - Tel. +39 06 49978000
• Roma - CAV del Policlinico "Agostino Gemelli", Servizio di tossicologia clinica - Tel. +39 06 3054343
• Roma - CAV "Ospedale Pediatrico Bambino Gesù", dipartimento emergenza e accettazione DEA - Tel. +39 06 68593726
• Foggia - Azienda Ospedaliera Universitaria riuniti, Foggia - Tel. +39 800 183459
• Napoli - Azienda Ospedaliera "Antonio Cardarelli", III Servizio di anestesia e rianimazione - Tel. +39 081 5453333
• Verona - CAV dell'Azienda ospedaliera integrata (AOUI) di Verona sede di Borgo Trento - Tel. +39 800 011858

Litokol Lab S.p.A.
Technical support: Tel. +39 0522 622852 (Monday - Friday: 8.30-12.30 AM , 2.00-6.00 PM)

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labelling:**
Aspartic acid, N-[3-[[[3-ethoxy-1-(ethoxycarbonyl)-3-oxopropyl]amino]methyl]-3,5,5-trimethylcyclohexyl]-, diethyl ester
N-(3-(trimethoxysilyl)propyl)ethylenediamine
maleic anhydride
3-aminopropyltriethoxysilane
· **Hazard statements**
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
· **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** The mixture does not contain substances that pose such a hazard at concentrations >0.1%.
· **vPvB:** The mixture does not contain substances that pose such a hazard at concentrations >0.1%.
· **Determination of endocrine-disrupting properties**
The mixture does not contain substances that pose such a hazard at concentrations >0.1%.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 136210-28-1 EC number: 603-945-2	Aspartic acid, N-[3-[[[3-ethoxy-1-(ethoxycarbonyl)-3-oxopropyl]amino]methyl]-3,5,5-trimethylcyclohexyl]-, diethyl ester Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥50-≤100%
CAS: 1760-24-3 EINECS: 217-164-6 Reg.nr.: 01-2119970215-39-XXXX	N-(3-(trimethoxysilyl)propyl)ethylenediamine Eye Dam. 1, H318; Skin Sens. 1B, H317; STOT SE 3, H335	≥1-<3%
CAS: 919-30-2 EINECS: 213-048-4 Index number: 612-108-00-0 Reg.nr.: 01-2119480479-24-XXXX	3-aminopropyltriethoxysilane Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1, H317	≥0.5-<1%
CAS: 77-58-7 EINECS: 201-039-8 Index number: 050-030-00-3 Reg.nr.: 01-2119496068-27-XXXX	dibutyltin dilaurate Muta. 2, H341; Repr. 1B, H360FD; STOT SE 1, H370; STOT RE 1, H372; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); Eye Irrit. 2, H319; Skin Sens. 1, H317	≤0.05%
CAS: 108-31-6 EINECS: 203-571-6 Index number: 607-096-00-9 Reg.nr.: 01-2119472428-31-XXXX	maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	<0.001%

· **Additional information:**
For the wording of the listed hazard phrases refer to section 16.
If no ATE values are present, refer to LD/LC50 values in section 11.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:** Take off contaminated clothing and wash it before reuse.
· **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
· **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
Use fire extinguishing methods suitable to surrounding conditions.
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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· **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.

· **5.3 Advice for firefighters**
· **Protective equipment:** Do not inhale explosion gases or combustion gases.
· **Additional information**
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**
Pick up mechanically.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.

· **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Use only in well ventilated areas.
Keep away from heat and direct sunlight.
· **Information about fire - and explosion protection:**
The product is not flammable.
No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
· **Information about storage in one common storage facility:** Store away from foodstuffs.
· **Further information about storage conditions:**
Store in a cool place.
Store in dry conditions.
Protect from frost.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
CAS: 108-31-6 maleic anhydride	
AGW (Germany)	Long-term value: 0.081 mg/m³, 0.02 ppm 1;=2.5=(I);DFG, Sah, Y, 11
VLEP (France)	Short-term value: 1 mg/m³ All
WEL (Great Britain)	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ Sen
TWA (Italy)	Long-term value: 0.04 mg/m³, 0.01 ppm sen, A4 (i, h)
PEL (USA)	Long-term value: 1 mg/m³, 0.25 ppm
REL (USA)	Long-term value: 1 mg/m³, 0.25 ppm

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TLV (USA)	Long-term value: 0.01* mg/m³, 0.0025 ppm DSEN, RSEN;*inh. fraction + vapor, A4
CAS: 77-58-7 dibutyltin dilaurate	
AGW (Germany)	Long-term value: 0.009 mg/m³, 0.0018 ppm 1(I);H, Z, 10, 11, AGS
VLEP (France)	Short-term value: 0.2 mg/m³ Long-term value: 0.1 mg/m³ en Sn
WEL (Great Britain)	Short-term value: 0.2 mg/m³ Long-term value: 0.1 mg/m³ as Sn; Sk
PEL (USA)	Long-term value: 0.1 mg/m³ as Sn
REL (USA)	Long-term value: 0.1 mg/m³ as Sn, Skin
TLV (USA)	Short-term value: 0.2 mg/m³ Long-term value: 0.1 mg/m³ as Sn; A4; Skin

· **Regulatory information**
AGW (Germany): TRGS 900
VLEP (France): ED 1487 26.04.2024
WEL (Great Britain): EH40/2020
TWA (Italy): Valori Limite di Soglia (ACGIH)
PEL (USA): Guide to Occupational Exposure Values (OSHA PELs)
REL (USA): Guide to Occupational Exposure Values (NIOSH RELs)
TLV (USA): Guide to Occupational Exposure Values (TLV)

· **DNELs**

CAS: 1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine		
Oral	DNEL / Long term exposure - Systemic effects	4 mg/Kg bw/d (general population)
Inhalative	DNEL / Long term exposure - Systemic effects	26 mg/m³ (general population)
		130 mg/m³ (workers)
	DNEL / Long term exposure - Local effects	0.1 mg/m³ (general population)
		0.6 mg/m³ (workers)
	DNEL / Short term exposure - Systemic effects	26,400 mg/m³ (general population)
	DNEL / Short term exposure - Local effects	4 mg/m³ (general population)
		5.36 mg/m³ (workers)
CAS: 919-30-2 3-aminopropyltriethoxysilane		
Oral	DNEL / Long term exposure - Systemic effects	1 mg/Kg bw/d (general population)
Dermal	DNEL / Long term exposure - Systemic effects	1 mg/Kg bw/d (general population)
		2 mg/Kg bw/d (workers)
Inhalative	DNEL / Long term exposure - Systemic effects	3.5 mg/m³ (general population)
		14 mg/m³ (workers)
CAS: 108-31-6 maleic anhydride		
Inhalative	DNEL / Long term exposure - Systemic effects	0.081 mg/m³ (workers)
	DNEL / Long term exposure - Local effects	0.081 mg/m³ (workers)
	DNEL / Short term exposure - Systemic effects	0.2 mg/m³ (workers)
	DNEL / Short term exposure - Local effects	0.2 mg/m³ (workers)

· **PNECs**

CAS: 1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine	
PNEC / water	0.05 mg/l (freshwater)
	0.072 mg/l (Intermittent releases (freshwater))
	0.005 mg/l (marine water)
PNEC / sediment	0.181 mg/Kg dw (freshwater)
	0.0181 mg/Kg dw (marine water)
PNEC / soil	0.00687 mg/Kg dw
PNEC / STP	20 mg/l (sewage treatment plant)
CAS: 919-30-2 3-aminopropyltriethoxysilane	
PNEC / water	0.5 mg/l (freshwater)

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	2.05 mg/l (Intermittent releases (freshwater))
	0.05 mg/l (marine water)
PNEC / sediment	1.8 mg/Kg dw (freshwater)
	0.18 mg/Kg dw (marine water)
PNEC / soil	0.069 mg/Kg dw
PNEC / STP	0.81-1.3 mg/l (sewage treatment plant)
CAS: 108-31-6 maleic anhydride	
PNEC / water	0.0379 mg/l (freshwater)
	0.379 mg/l (Intermittent releases (freshwater))
	0.0379 mg/l (Intermittent releases (marine water))
	0.00379 mg/l (marine water)
PNEC / sediment	0.06 mg/Kg dw (freshwater)
	0.006 mg/Kg dw (marine water)
PNEC / soil	0.01 mg/Kg dw
PNEC / STP	4.46 mg/l (sewage treatment plant)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**
· **Appropriate engineering controls** Ensure good ventilation in the workplace.
· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Do not eat or drink while working.
Keep away from tobacco products.
Avoid contact with the eyes and skin.
Ensure that washing facilities are available at the work place.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.

· **Respiratory protection:**



Use suitable respiratory protective device in case of insufficient ventilation.

Short term filter device:
Filter A/P2

· **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye/face protection** Goggles recommended.
· **Body protection:** Light weight protective clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**
· **General Information**
· **Physical state** Liquid

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· **Colour:**	Different according to colouring
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **Melting point/freezing point:**	Undetermined.
· **Boiling point or initial boiling point and boiling range**	>100 °C
· **Flammability**	Non-flammable mixture
· **Lower and upper explosion limit**	
· **Lower:**	Not determined. Non-flammable mixture
· **Upper:**	Not determined. Non-flammable mixture
· **Flash point:**	>60 °C
· **Auto-ignition temperature:**	>270 °C
· **Decomposition temperature:**	Not applicable. Mixture is not self-reactive, does not contail organic peroxide and does not decompose under foreseen conditions of use
· **pH**	Not applicable. Mixture is non-polar/aprotic.
· **Viscosity:**	
· **Kinematic viscosity**	Not determined.
· **Solubility**	
· **water:**	Insoluble. Not miscible or difficult to mix.
· **Partition coefficient n-octanol/water (log value)**	Not applicable. The product is a mixture
· **Vapour pressure:**	Not determined.
· **Density and/or relative density**	
· **Density at 20 °C:**	1.38 g/cm³
· **Relative gas density**	Not determined.
· **Particle characteristics**	Fluid
· **9.2 Other information**	
· **Appearance:**	
· **Form:**	Pasty
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product does not present an explosion hazard.
· **Solvent content:**	
· **VOC (EC)**	0.00 %
· **Change in condition**	
· **Evaporation rate**	Not determined.
· **Information with regard to physical hazard classes**	Void

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No dangerous reactions known.

· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
No decomposition if used and stored according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

· **10.4 Conditions to avoid**
To avoid thermal decomposition do not overheat.
Keep ignition sources away - Do not smoke.

· **10.5 Incompatible materials:** Store away from water.

· **10.6 Hazardous decomposition products:** Formation of toxic gases is possible during heating or in case of fire.

SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** Based on available data, the classification criteria are not met.

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· **LD/LC50 values relevant for classification:**

CAS: 1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine		
Oral	LD50	2,295 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	1.49 mg/l (rat) (OECD TG 403: Acute Inhalation Toxicity)
CAS: 919-30-2 3-aminopropyltriethoxysilane		
Oral	LD50	1,490 mg/kg (rat)
Dermal	LD50	4,075 mg/kg (rabbit) (OECD TG 402: Acute Dermal Toxicity)
Inhalative	LC50 / 6h	>145 mg/m³ (rat) (OECD TG 403: Acute Inhalation Toxicity)
CAS: 77-58-7 dibutyltin dilaurate		
Oral	LD50	2,071 mg/kg (rat) (OECD TG 401: Acute Oral Toxicity)
Dermal	LD50	>2,000 mg/kg (rat) (OECD TG 402: Acute Dermal Toxicity)
CAS: 108-31-6 maleic anhydride		
Oral	LD50	1,090 mg/kg (rat) (OECD TG 401: Acute Oral Toxicity)
Dermal	LD50	2,620 mg/kg (rabbit)

· **Primary irritant effect:**
· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Causes serious eye irritation.
· **Respiratory or skin sensitisation** May cause an allergic skin reaction.
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**
None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

CAS: 1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine	
EC50 / 48h	81 mg/l (crustacea - Daphnia magna)
LC50 / 96h	597 mg/l (fish - Brachydanio rerio)
EC50 / 72h	8.8 mg/l (algae - Pseudokirchneriella subcapitata)
CAS: 919-30-2 3-aminopropyltriethoxysilane	
EC50 / 48h	331 mg/l (crustacea - Daphnia magna) (OECD TG 202: Daphnia sp. Acute Immobilisation Test)
LC50 / 96h	>934 mg/l (fish - Brachydanio rerio) (OECD TG 203: Fish, Acute Toxicity Test)
EC50 / 72h	>1,000 mg/l (algae - Desmodesmus subspicatus)
NOEC / 72h	1.3 mg/l (algae - Desmodesmus subspicatus)
CAS: 77-58-7 dibutyltin dilaurate	
EC50 / 48h	0.463 mg/l (crustacea - Daphnia magna) (OECD TG 202: Daphnia sp. Acute Immobilisation Test)
LC50 / 96h	3.1 mg/l (fish - Oncorhyncus mykiss) (OECD TG 203: Fish, Acute Toxicity Test)
EC50 / 72h	>1 mg/l (algae - Desmodesmus subspicatus) (OECD TG 201: Alga, Growth Inhibition Test)

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential**

CAS: 919-30-2 3-aminopropyltriethoxysilane	
BCF	3.4

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

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· **12.7 Other adverse effects**
· **Remark:** Harmful to fish
· **Additional ecological information:**
· **General notes:**
Harmful to aquatic organisms
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Disposal must be made according to official regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN number or ID number**	
· **ADR/RID/ADN, IMDG, IATA**	Void
· **14.2 UN proper shipping name**	
· **ADR/RID/ADN, IMDG, IATA**	Void
· **14.3 Transport hazard class(es)**	
· **ADR/RID/ADN, ADN, IMDG, IATA**	
· **Class**	Void
· **14.4 Packing group**	
· **ADR/RID/ADN, IMDG, IATA**	Void
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	No
· **14.6 Special precautions for user**	Not applicable.
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable.
· **UN "Model Regulation":**	Void

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Regulation (EC) No 1907/2006 (REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals)
Regulation (EC) No 1272/2008 (CLP - Classification, Labelling and Packaging of substances and mixtures)
Compilation of Safety Data Sheet: Reg.UE n. 878/2020 (amending Reg.EC n.1907/2006, Annex II)

· **REACH**
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Regulation (EU) No 649/2012**

CAS: 77-58-7	dibutyltin dilaurate	Annex I Part 1

· **REGULATION (EC) No 273/2004 on drug precursors**
None of the ingredients is listed.

· **REGULATION (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
None of the ingredients is listed.

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· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H360FD May damage fertility. May damage the unborn child.
H370 Causes damage to organs.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

· **Classification according to Regulation (EC) No 1272/2008**

Serious eye damage/irritation Skin sensitisation Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Contact:** Litokol Lab S.p.A.

· **Abbreviations and acronyms:**
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
CLP: Classification, Labelling and Packaging
TLV: Threshold Limit Value
TLV-TWA: Threshold Limit Value - Time Weighted Average
TLV-STEL: Threshold Limit Value - Short Term Exposure Limit
PEL: Permissible Exposure Limits (Limiti di esposizione consentiti)
REL: Recommended Exposure Limits (Limiti di esposizione raccomandati)
IOELV: Indicative Occupational Exposure Limit Value
WEELs: Workplace Environmental Exposure Limits (Limiti di esposizione ambientale sul posto di lavoro)
BEI: Biological Exposure Indices
LC50: Lethal Concentration, 50 percent
EC50: Effective Concentration, 50 percent
ErC50: Effective Concentration, 50 percent, reduction of growth rate
NOEC: No-Observed Effect Concentration
NOELR: No-Observed Effect Loading Rate
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Skin Sens. 1B: Skin sensitisation – Category 1B
Muta. 2: Germ cell mutagenicity – Category 2
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3