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

Printing date 02.06.2025 Rev. 1 Revision: 02.06.2025

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

· **1.1 Product identifier**
· **Trade name: X-Cleaner Pro**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against** Cleaner for coloured stains

· **Application of the substance / the mixture** Cleaning agent/ Cleaner

· **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**

Met. Corr.1	H290 May be corrosive to metals.
Skin Corr. 1A	H314 Causes severe skin burns and eye damage.
Eye Dam. 1	H318 Causes serious eye damage.
Aquatic Acute 1	H400 Very toxic to aquatic life.
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**



GHS05 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**
sodium hypochlorite, solution
· **Hazard statements**
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H410 Very toxic 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.
P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

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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].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**
EUH031 Contact with acids liberates toxic gas.

· **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 consisting of the following components:

· **Dangerous components:**

CAS: 7681-52-9 EINECS: 231-668-3 Index number: 017-011-00-1 Reg.nr.: 01-2119488154-34-XXXX	sodium hypochlorite, solution Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411, EUH031 Note: B Specific concentration limit: EUH031: C ≥ 5 %	≥5-≤10%
CAS: 3332-27-2 EINECS: 222-059-3 Reg.nr.: 01-2119949262-37-XXXX	tetradecyldimethylamine oxide Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315	≥2.5-<3%
CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6 Reg.nr.: 01-2119457892-27-XXXX	sodium hydroxide Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	≥0.5-<1%

· **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:** Immediately remove any clothing soiled by the product.
· **After inhalation:**
Supply fresh air.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.
· **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
Protect unharmed eye.
· **After swallowing:**
Rinse out mouth and then drink plenty of water.
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.

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CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **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.
Wear fully protective suit.
Mouth respiratory protective device.
· **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).
Use neutralising agent.
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**
Prevent formation of aerosols.
Keep receptacles tightly sealed.
Use only in well ventilated areas.
Ensure good ventilation/exhaustion at the workplace.
· **Information about fire - and explosion protection:**
No special measures required.
The product is not flammable.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Store in a cool location.
· **Information about storage in one common storage facility:**
Store away from foodstuffs.
Do not store together with acids.
Store away from reducing agents.
· **Further information about storage conditions:**
Protect from heat and direct sunlight.
Keep container tightly sealed.
Store receptacle in a well ventilated area.

· **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: 7681-52-9 sodium hypochlorite, solution	
WEEL (USA)	Short-term value: 2 mg/m³

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CAS: 1310-73-2 sodium hydroxide	
MAK (Germany)	vgl.Abschn.IIb
VLEP (France)	Long-term value: 2 mg/m³
WEL (Great Britain)	Short-term value: 2 mg/m³
TWA (Italy)	Ceiling limit: 2 mg/m³
PEL (USA)	Long-term value: 2 mg/m³
REL (USA)	Ceiling limit: 2 mg/m³
TLV (USA)	Ceiling limit: 2 mg/m³

· **Regulatory information**
WEEL (USA): Guide to Occupational Exposure Values (AIHA WEELs)
MAK (Germany): MAK- und BAT-Liste
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: 7681-52-9 sodium hypochlorite, solution		
Oral	DNEL / Long term exposure - Local effects	0.26 mg/Kg (general population)
Inhalative	DNEL / Long term exposure - Systemic effects	1.55 mg/m³ (general population)
		1.55 mg/m³ (workers)
	DNEL / Long term exposure - Local effects	1.55 mg/m³ (general population)
		1.55 mg/m³ (workers)
	DNEL / Short term exposure - Systemic effects	3.1 mg/m³ (general population)
		3.1 mg/m³ (algae - Desmodesmus subspicatus)
	DNEL / Short term exposure - Local effects	3.1 mg/m³ (general population)
		3.1 mg/m³ (workers)
CAS: 3332-27-2 tetradecyldimethylamine oxide		
Oral	DNEL / Long term exposure - Systemic effects	0.44 mg/Kg bw/d (general population)
Dermal	DNEL / Long term exposure - Systemic effects	5.5 mg/Kg bw/d (general population)
		11 mg/Kg bw/d (workers)
Inhalative	DNEL / Long term exposure - Systemic effects	1.53 mg/m³ (general population)
		6.2 mg/m³ (workers)
CAS: 1310-73-2 sodium hydroxide		
Inhalative	DNEL / Long term exposure - Local effects	1 mg/m³ (general population)
		1 mg/m³ (workers)

· **PNECs**

CAS: 7681-52-9 sodium hypochlorite, solution	
PNEC / water	0.00021 mg/l (freshwater)
	0.00026 mg/l (intermittent releases)
	0.000042 mg/l (marine water)
PNEC / STP	4.69 mg/l (sewage treatment plant)
CAS: 3332-27-2 tetradecyldimethylamine oxide	
PNEC / water	0.0335 mg/l (freshwater)
	0.0335 mg/l (intermittent releases)
	0.00335 mg/l (marine water)
PNEC / sediment	5.24 mg/Kg dw (freshwater)
	0.524 mg/Kg dw (marine water)
PNEC / soil	1.02 mg/Kg dw
PNEC / STP	24 mg/l (sewage treatment plant)

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

· **8.2 Exposure controls**
· **Appropriate engineering controls** No further data; see section 7.
· **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.

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Do not eat, drink, smoke or sniff while working.
Ensure that washing facilities are available at the work place.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.

· **Respiratory protection:**



Use suitable respiratory protective device in case of insufficient ventilation.

Short term filter device:
Filter B

· **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**
PVC gloves
Butyl rubber, BR
Recommended thickness of the material: ≥ 0.5 mm
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**
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**



Tightly sealed goggles

· **Body protection:** Alkaline resistant protective clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**
· **General Information**

· **Physical state**	Liquid
· **Colour:**	Colourless
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **Melting point/freezing point:**	≤0 °C
· **Boiling point or initial boiling point and boiling range**	96-120 °C
· **Flammability**	Non-flammable mixture
· **Lower and upper explosion limit**	
· **Lower:**	Not determined. Non-flammable mixture
· **Upper:**	Not determined. Non-flammable mixture
· **Flash point:**	Not determined. No flash point up to 100 °C
· **Auto-ignition temperature:**	Not determined.
· **Decomposition temperature:**	> 35 °C
· **pH at 20 °C**	12-13
· **Viscosity:**	
· **Kinematic viscosity**	Not determined.

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· **Solubility**	
· **water:**	Soluble.
· **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:**	1.11-1.12 g/cm³
· **Relative gas density**	Not determined.
· **9.2 Other information**	
· **Appearance:**	
· **Form:**	Viscous
· **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.
· **Change in condition**	
· **Evaporation rate**	Not determined.
· **Information with regard to physical hazard classes**	Void
· **Corrosive to metals**	May be corrosive to metals.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
Stable at environment temperature.
To avoid thermal decomposition do not overheat.

· **10.3 Possibility of hazardous reactions**
Reacts with acids.
Corrosive action on metals.
Reacts with reducing agents.
Toxic fumes may be released if heated above the decomposition point.
Contact with acids releases toxic gases.
Reacts with acids releasing chlorine.

· **10.4 Conditions to avoid**
Protect from humidity and water.
Keep ignition sources away - Do not smoke.

· **10.5 Incompatible materials:**
Warning! Do not use together with other products. May release dangerous gases (chlorine).

· **10.6 Hazardous decomposition products:**
Poisonous gases/vapours
Chlorine

SECTION 11: Toxicological information

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

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

CAS: 7681-52-9 sodium hypochlorite, solution		
Oral	LD50	1,100 mg/kg (rat) (OECD TG 401: Acute Oral Toxicity)
Dermal	LD50	>20,000 mg/kg (rabbit) (OECD TG 402: Acute Dermal Toxicity)
Inhalative	LC50 / 1h	>10,500 mg/m³ (rat) (OECD TG 403: Acute Inhalation Toxicity)
CAS: 3332-27-2 tetradecyldimethylamine oxide		
Oral	LD50	>1,495 mg/kg (rat) (OECD TG 401: Acute Oral Toxicity)
Dermal	LD50	>2,000 mg/kg (rat) (OECD TG 402: Acute Dermal Toxicity)

· **Primary irritant effect:**
· **Skin corrosion/irritation**
Causes severe skin burns and eye damage.

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· **Serious eye damage/irritation**
Causes serious eye damage.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.
· **11.2 Information on other hazards**

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

SECTION 12: Ecological information

· **12.1 Toxicity**
· **Aquatic toxicity:**
No further relevant information available.

CAS: 7681-52-9 sodium hypochlorite, solution	
EC50 / 48h	0.141 mg/l (crustacea - Daphnia magna) (OECD TG 202: Daphnia sp. Acute Immobilisation Test)
LC50 / 96h	0.06 mg/l (fish)
NOEC	0.002 mg/l (algae)
	0.04 mg/l /28d (fish)
CAS: 3332-27-2 tetradecyldimethylamine oxide	
EC50 / 48h	2.64 mg/l (crustacea - Daphnia magna) (OECD TG 202: Daphnia sp. Acute Immobilisation Test)
LC50 / 96h	2.4 mg/l (fish - Brachydanio rerio) (OECD TG 203: Fish, Acute Toxicity Test)
NOEC	0.42 mg/l /302d (fish - Pimephales promelas)
ErC50 / 72h	0.19 mg/l (algae) (OECD TG 201: Alga, Growth Inhibition Test)
NOEC / 21d	0.7 mg/l (crustacea - Daphnia magna) (OECD TG 211: Daphnia magna Reproduction Test)
	0.42 mg/l (fish)
CAS: 1310-73-2 sodium hydroxide	
EC50 / 48h	40.4 mg/l (crustacea)

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

· **12.3 Bioaccumulative potential**
No further relevant information available.

CAS: 3332-27-2 tetradecyldimethylamine oxide	
log Kow	2.7

· **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.

· **12.7 Other adverse effects**
· **Remark:**
Very toxic for fish
Toxic for fish
· **Additional ecological information:**
· **General notes:**
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

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SECTION 13: Disposal considerations

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

· **Uncleaned packaging:**
· **Recommendation:**
Packagings that may not be cleansed are to be disposed of in the same manner as the product.
Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN number or ID number**	
· **ADR/RID/ADN, IMDG, IATA**	UN1760
· **14.2 UN proper shipping name**	
· **ADR/RID/ADN**	CORROSIVE LIQUID, N.O.S. (sodium hypochlorite, solution), ENVIRONMENTALLY HAZARDOUS
· **IMDG**	CORROSIVE LIQUID, N.O.S. (sodium hypochlorite, solution), MARINE POLLUTANT
· **IATA**	CORROSIVE LIQUID, N.O.S. (sodium hypochlorite, solution)
· **14.3 Transport hazard class(es)**	
· **ADR/RID/ADN, IMDG**	



· **Class**	8 Corrosive substances.
· **Label**	8
· **IATA**	



· **Class**	8 Corrosive substances.
· **Label**	8
· **14.4 Packing group**	
· **ADR/RID/ADN, IMDG, IATA**	II
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	Symbol (fish and tree)
· **Special marking (ADR/RID/ADN):**	Symbol (fish and tree)
· **14.6 Special precautions for user**	Warning: Corrosive substances.
· **Hazard identification number (Kemler code):**	80
· **EMS Number:**	F-A,S-B
· **Stowage Category**	B
· **Stowage Code**	SW2 Clear of living quarters.
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable.
· **Transport/Additional information:**	
· **ADR/RID/ADN**	
· **Limited quantities (LQ)**	1L
· **Transport category**	2
· **Tunnel restriction code**	E
· **IMDG**	
· **Limited quantities (LQ)**	1L

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· **UN "Model Regulation":**	UN 1760 CORROSIVE LIQUID, N.O.S. (SODIUM HYPOCHLORITE, SOLUTION), 8, II, ENVIRONMENTALLY HAZARDOUS

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.
· **Seveso category** E1 Hazardous to the Aquatic Environment
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **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.

· **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**
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
EUH031 Contact with acids liberates toxic gas.

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

Corrosive to metals	Expert judgement
Skin corrosion/irritation Serious eye damage/irritation Hazardous to the aquatic environment - short-term (acute) aquatic hazard 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)

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

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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)
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
Met. Corr.1: Corrosive to metals – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3