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according to Regulation (EC) No 1907/2006, Article 31

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

· **1.1 Product identifier**
· **Trade name: Starlike Remover**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
Product for removing hardened epoxy fillers.

· **Application of the substance / the mixture** Cleaner for removing epoxy mortar residues

· **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**
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Eye Dam. 1 H318 Causes serious eye damage.
STOT SE 3 H336 May cause drowsiness or dizziness.

· **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**



GHS02 GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**
1,3-dioxolane
acetone
toluene
· **Hazard statements**
H225 Highly flammable liquid and vapour.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
· **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**
EUH066 Repeated exposure may cause skin dryness or cracking.
Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

· **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: 646-06-0 EINECS: 211-463-5 Index number: 605-017-00-2 Reg.nr.: 01-2119490744-29-XXXX	1,3-dioxolane Flam. Liq. 2, H225; Eye Dam. 1, H318	≥50-<60%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49-XXXX	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≥25-≤50%
CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3 Reg.nr.: 01-2119471310-51-XXXX	toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	≥2.5-<3%
CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X Reg.nr.: 01-2119433307-44-XXXX	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	≥1-≤2.5%

· **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; consult doctor in case of complaints.
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. Then 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:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **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.

SECTION 6: Accidental release measures

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

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

· **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**
Ensure good ventilation/exhaustion at the workplace.
Keep away from heat and direct sunlight.
Keep receptacles tightly sealed.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
· **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.
Highly volatile, flammable constituents are released during processing.
Flammable gas-air mixtures may form in empty receptacles.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
Protect from heat and direct sunlight.
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
Keep container tightly sealed.
Store receptacle in a well ventilated area.
Caution when reopening receptacles with broken seal.

· **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: 646-06-0 1,3-dioxolane	
AGW (Germany)	Long-term value: 150 mg/m³, 50 ppm 2(II);DFG, H, Z
TWA (Italy)	Long-term value: 61 mg/m³, 20 ppm
TLV (USA)	Long-term value: 61 mg/m³, 20 ppm

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CAS: 67-64-1 acetone	
IOELV (EU)	Long-term value: 1210 mg/m³, 500 ppm
AGW (Germany)	Long-term value: 1200 mg/m³, 500 ppm 2(I);AGS, DFG, EU, Y
VLEP (France)	Short-term value: 2420 mg/m³, 1000 ppm Long-term value: 1210 mg/m³, 500 ppm
WEL (Great Britain)	Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm
TWA (Italy)	Short-term value: 1781 mg/m³, (750) ppm Long-term value: 1187 mg/m³, (500) ppm A4, IBE
VL (Italy)	Long-term value: 1210 mg/m³, 500 ppm
PEL (USA)	Long-term value: 2400 mg/m³, 1000 ppm
REL (USA)	Long-term value: 590 mg/m³, 250 ppm
TLV (USA)	Short-term value: 1187 mg/m³, 500 ppm Long-term value: 594 mg/m³, 250 ppm A4, BEI
CAS: 108-88-3 toluene	
IOELV (EU)	Short-term value: 384 mg/m³, 100 ppm Long-term value: 192 mg/m³, 50 ppm Skin
AGW (Germany)	Long-term value: 190 mg/m³, 50 ppm 2(II);DFG, EU, H, Y
VLEP (France)	Short-term value: 384 mg/m³, 100 ppm Long-term value: 76.8 mg/m³, 20 ppm R2, risque de pénétration percutanée
WEL (Great Britain)	Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm Sk
TWA (Italy)	Long-term value: 75.4 mg/m³, 20 ppm A4, IBE
VL (Italy)	Short-term value: 384 mg/m³, 100 ppm Long-term value: 192 mg/m³, 50 ppm Cute
PEL (USA)	Long-term value: 200 ppm Ceiling limit: 300; 500* ppm *10-min peak per 8-hr shift
REL (USA)	Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm
TLV (USA)	Long-term value: 20 ppm BEI, OTO, A4
CAS: 67-56-1 methanol	
IOELV (EU)	Long-term value: 260 mg/m³, 200 ppm Skin
AGW (Germany)	Long-term value: 130 mg/m³, 100 ppm 2(II);DFG, EU, H, Y
VLEP (France)	Short-term value: 1300 mg/m³, 1000 ppm Long-term value: 260 mg/m³, 200 ppm risque de pénétration percutanée, (11)
WEL (Great Britain)	Short-term value: 333 mg/m³, 250 ppm Long-term value: 266 mg/m³, 200 ppm Sk
TWA (Italy)	Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Cute, IBE
VL (Italy)	Long-term value: 260 mg/m³, 200 ppm Cute
PEL (USA)	Long-term value: 260 mg/m³, 200 ppm
REL (USA)	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin

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TLV (USA)	Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI

· **Regulatory information**
AGW (Germany): TRGS 900
TWA (Italy): Valori Limite di Soglia (ACGIH)
TLV (USA): Guide to Occupational Exposure Values (TLV)
IOELV (EU): (EU) 2019/1831
VLEP (France): ED 1487 26.04.2024
WEL (Great Britain): EH40/2020
VL (Italy): D.lgs. n. 135/2024, Allegato A
PEL (USA): Guide to Occupational Exposure Values (OSHA PELs)
REL (USA): Guide to Occupational Exposure Values (NIOSH RELs)

· **DNELs**

CAS: 646-06-0 1,3-dioxolane		
Oral	DNEL / Long term exposure - Systemic effects	1.31 mg/Kg bw/d (general population)
Dermal	DNEL / Long term exposure - Systemic effects	1.31 mg/Kg bw/d (general population)
		1.18 mg/Kg bw/d (workers)
Inhalative	DNEL / Long term exposure - Systemic effects	4.52 mg/m³ (general population)
		3.306 mg/m³ (workers)
CAS: 67-64-1 acetone		
Oral	DNEL / Long term exposure - Systemic effects	62 mg/Kg bw/d (general population)
Dermal	DNEL / Long term exposure - Systemic effects	62 mg/Kg bw/d (general population)
		186 mg/Kg bw/d (workers)
Inhalative	DNEL / Long term exposure - Systemic effects	200 mg/m³ (general population)
		1,210 mg/m³ (workers)
	DNEL / Short term exposure - Local effects	2,420 mg/m³ (workers)
CAS: 108-88-3 toluene		
Oral	DNEL / Long term exposure - Systemic effects	8.13 mg/Kg bw/d (general population)
Dermal	DNEL / Long term exposure - Systemic effects	226 mg/Kg bw/d (general population)
		384 mg/Kg bw/d (workers)
Inhalative	DNEL / Long term exposure - Systemic effects	56.5 mg/m³ (general population)
		192 mg/m³ (workers)
	DNEL / Long term exposure - Local effects	56.5 mg/m³ (general population)
		192 mg/m³ (workers)
	DNEL / Short term exposure - Systemic effects	226 mg/m³ (general population)
		384 mg/m³ (workers)
	DNEL / Short term exposure - Local effects	226 mg/m³ (general population)
		384 mg/m³ (workers)
CAS: 67-56-1 methanol		
Oral	DNEL / Long term exposure - Systemic effects	4 mg/Kg bw/d (general population)
	DNEL / Short term exposure - Systemic effects	4 mg/Kg (general population)
Dermal	DNEL / Long term exposure - Systemic effects	4 mg/Kg bw/d (general population)
		20 mg/Kg bw/d (workers)
	DNEL / Short term exposure - Systemic effects	4 mg/Kg (general population)
		20 mg/Kg (workers)
Inhalative	DNEL / Long term exposure - Systemic effects	26 mg/m³ (general population)
		130 mg/m³ (workers)
	DNEL / Long term exposure - Local effects	26 mg/m³ (general population)
		130 mg/m³ (workers)
	DNEL / Short term exposure - Systemic effects	26 mg/m³ (general population)
		130 mg/m³ (workers)
	DNEL / Short term exposure - Local effects	26 mg/m³ (general population)
		130 mg/m³ (workers)

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· **PNECs**

CAS: 646-06-0 1,3-dioxolane	
PNEC / water	19.7 mg/l (freshwater)
	0.95 mg/l (intermittent releases)
	1.97 mg/l (marine water)
PNEC / sediment	77.7 mg/Kg dw (freshwater)
	7.77 mg/Kg dw (marine water)
PNEC / soil	2.62 mg/Kg dw
PNEC / STP	1 mg/l (sewage treatment plant)
CAS: 67-64-1 acetone	
PNEC / water	10.6 mg/l (freshwater)
	21 mg/l (intermittent releases)
	1.06 mg/l (marine water)
PNEC / sediment	30.4 mg/Kg dw (freshwater)
	3.04 mg/Kg dw (marine water)
PNEC / soil	29.5 mg/Kg dw
PNEC / STP	100 mg/l (sewage treatment plant)
CAS: 108-88-3 toluene	
PNEC / water	0.074-0.68 mg/l (freshwater)
	0.0378-0.68 mg/l (Intermittent releases (freshwater))
	0.00378 mg/l (Intermittent releases (marine water))
	0.0074-0.68 mg/l (marine water)
PNEC / sediment	1.78-16.39 mg/Kg dw (freshwater)
	0.178-16.39 mg/Kg dw (marine water)
PNEC / soil	0.313-2.89 mg/Kg dw
PNEC / STP	0.84-13.61 mg/l (sewage treatment plant)

· **Ingredients with biological limit values:**

CAS: 67-64-1 acetone	
BGW (Germany)	50 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton
IBE (Italy)	50 mg/l Campioni: urine Momento del prelievo: a fine turno Indicatore biologico: acetone
BEI (USA)	25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)

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CAS: 108-88-3 toluene	
BGW (Germany)	600 µg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: unmittelbar nach Exposition Parameter: Toluol 1.5 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende, bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten Parameter: o-Kresol (nach Hydrolyse) 75 µg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Toluol
IBE (Italy)	0.02 mg/l Campioni: sangue Momento del prelievo: a prima ultimo turno settimana lavorativa Indicatore biologico: toluene 0.03 mg/l Campioni: urine Momento del prelievo: a fine turno Indicatore biologico: toluene 0.3 mg/g creatinina Campioni: urine Momento del prelievo: a fine turno Indicatore biologico: o-cresolo
BEI (USA)	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene 0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene 0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)
CAS: 67-56-1 methanol	
BGW (Germany)	15 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende, bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten Parameter: Methanol
IBE (Italy)	15 mg/l Campioni: urine Momento del prelievo: a fine turno Indicatore biologico: metanolo
BEI (USA)	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

· **Regulatory information**
BGW (Germany): TRGS 903
IBE (Italy): Indici Biologici di Esposizione
BEI (USA): Guide to Occupational Exposure Values (BEI)
· **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.

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· **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 inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Immediately remove all soiled and contaminated clothing
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Ensure that washing facilities are available at the work place.

· **Respiratory protection:**



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter AX

· **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
PVC gloves
Nitrile rubber, NBR
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**
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**



Tightly sealed goggles

· **Body protection:** Use protective suit.

SECTION 9: Physical and chemical properties

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

· **Physical state**	Liquid
· **Colour:**	White
· **Odour:**	Solvent-like
· **Odour threshold:**	Not determined.
· **Melting point/freezing point:**	Undetermined.
· **Boiling point or initial boiling point and boiling range**	56 °C (CAS: 67-64-1 acetone)
· **Flammability**	Highly flammable.
· **Lower and upper explosion limit**	
· **Lower:**	1.1 Vol %
· **Upper:**	13 Vol % (CAS: 67-64-1 acetone)
· **Flash point:**	-17 °C (CAS: 67-64-1 acetone)
· **Auto-ignition temperature:**	250 °C (CAS: 646-06-0 1,3-dioxolane)
· **Decomposition temperature:**	Not determined.
· **pH**	Mixture is non-soluble (in water).
· **Viscosity:**	
· **Kinematic viscosity**	Not determined.

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· **Solubility**	
· **water:**	Slightly soluble.
· **organic solvents:**	Soluble in many organic solvents.
· **Partition coefficient n-octanol/water (log value)**	Not applicable. The product is a mixture
· **Vapour pressure at 20 °C:**	240 hPa (CAS: 67-64-1 acetone)
· **Density and/or relative density**	
· **Density at 20 °C:**	0.92-0.94 g/cm³
· **Relative gas density**	3.18
· **Particle characteristics**	Not applicable.
· **9.2 Other information**	
· **Appearance:**	
· **Form:**	Fluid Viscous
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· **Solvent content:**	
· **VOC (EC)**	100 %
· **Change in condition**	
· **Evaporation rate**	Not determined.
· **Information with regard to physical hazard classes**	Void
· **Flammable liquids**	Highly flammable liquid and vapour.

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 according to specifications.
To avoid thermal decomposition do not overheat.

· **10.3 Possibility of hazardous reactions**
Reacts with strong acids and oxidising agents.
Reacts with alkaline metals.
Develops readily flammable gases/fumes.
Form explosive mixture with air.

· **10.4 Conditions to avoid** Keep ignition sources away - Do not smoke.

· **10.5 Incompatible materials:** No further relevant information available.

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

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: 646-06-0 1,3-dioxolane		
Oral	LD50	>2,000 mg/kg (rat) (OECD TG 401: Acute Oral Toxicity)
Inhalative	LC50 / 4h	68.4 mg/l (rat) (OECD TG 403: Acute Inhalation Toxicity)
CAS: 67-64-1 acetone		
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	>7,400 mg/kg (rabbit)
CAS: 108-88-3 toluene		
Oral	LD50	5,580 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)
Inhalative	LC50 / 4h	25.7 mg/l (rat) (OECD TG 403: Acute Inhalation Toxicity)
CAS: 67-56-1 methanol		
Oral	LD50	1,187 mg/kg (rat) (OECD TG 401: Acute Oral Toxicity)

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Dermal	LD50	17,100 mg/kg (rabbit)
Inhalative	LC50 / 4h	128.2 mg/l (rat)

· **Primary irritant effect:**
· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **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**
May cause drowsiness or dizziness.
· **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: 646-06-0 1,3-dioxolane	
EC50 / 48h	>772 mg/l (crustacea - Daphnia magna) (OECD TG 202: Daphnia sp. Acute Immobilisation Test)
LC50 / 96h	>95.4 mg/l (fish - Lepomis macrochirus) (OECD TG 203: Fish, Acute Toxicity Test)
ErC50 / 72h	>877 mg/l (algae - Pseudokirchneriella subcapitata) (OECD TG 201: Alga, Growth Inhibition Test)

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

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

· **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**
· **Additional ecological information:**
· **General notes:**
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.
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· **14.1 UN number or ID number**
· **ADR/RID/ADN, IMDG, IATA** UN1993

· **14.2 UN proper shipping name**
· **ADR/RID/ADN, IMDG, IATA** FLAMMABLE LIQUID, N.O.S. (DIOXOLANE, ACETONE)

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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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· **14.3 Transport hazard class(es)**

· **ADR/RID/ADN, IMDG, IATA**



· **Class**	3 Flammable liquids.
· **Label**	3

· **14.4 Packing group**
· **ADR/RID/ADN, IMDG, IATA** II

· **14.5 Environmental hazards:**
· **Marine pollutant:** No

· **14.6 Special precautions for user** Warning: Flammable liquids.
· **Hazard identification number (Kemler code):** 33
· **EMS Number:** F-E,S-E
· **Stowage Category** B

· **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** D/E

· **IMDG**
· **Limited quantities (LQ)** 1L

· **UN "Model Regulation":** UN 1993 FLAMMABLE LIQUID, N.O.S. (DIOXOLANE, ACETONE), 3, II

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, 40, 48, 69

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category** P5c FLAMMABLE LIQUIDS
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

· **REGULATION (EC) No 273/2004 on drug precursors**

CAS: 67-64-1	acetone	3
CAS: 108-88-3	toluene	3

· **REGULATION (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

CAS: 67-64-1	acetone	3
CAS: 108-88-3	toluene	3

· **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**

CAS: 67-64-1	acetone

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Safety data sheet (English translation without any country-specific legislation)
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· **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**
H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H370 Causes damage to organs.
H371 May cause damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.
EUH066 Repeated exposure may cause skin dryness or cracking.

· **Classification according to Regulation (EC) No 1272/2008**	
Flammable liquids	Expert judgement
Serious eye damage/irritation Specific target organ toxicity (single exposure)	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
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Repr. 2: Reproductive toxicity – Category 2
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1