Safety data sheet

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

Printing date 04.08.2025 Version number 9 (replaces version 8) Revision: 04.08.2025

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

· **1.1 Product identifier**

· Trade name: **Stain Repellent Nano Effect**

· Article number: 11931, 11932, 11933, 11934, 11935, 11936, 11967, 11929

· UFI: 8AR7-U0Q6-M00H-A5HQ

· **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.

· Product category PC15 Non-metal-surface treatment products

· Application of the substance / the mixture Protective impregnation

· **1.3 Details of the supplier of the safety data sheet**

· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg
Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

· Further information obtainable from: Laboratory

· **1.4 Emergency telephone number:** Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.

* **SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

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

Flam. Liq. 3	H226 Flammable liquid and vapour.
Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 4	H413 May cause long lasting harmful effects to aquatic life.

· Response: IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.

· Storage: Store in a well-ventilated place. Keep cool.
Store locked up.

· **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 GHS08

· Signal word Danger

· Hazard-determining components of labelling: Hydrocarbons, C11-C12, Isoalkanes, <2% aromatics
Hydrocarbons, C11-C13, Isoalkanes, <2% aromatics
C11-15-Isoalkanes

· Hazard statements H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H413 May cause long lasting harmful effects to aquatic life.

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· Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331	Do NOT induce vomiting.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· Additional information: EUH066 Repeated exposure may cause skin dryness or cracking.

· **2.3 Other hazards** The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Determination of endocrine-disrupting properties For information on endocrine disrupting properties see section 11.

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SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

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

· Dangerous components:

EC number: 918-167-1 Reg.nr.: 01-2119472146-39-xxxx	Hydrocarbons, C11-C12, Isoalkanes, <2% aromatics Flam. Liq. 3, H226 Asp. Tox. 1, H304 EUH066	25-50%
EC number: 920-901-0 Reg.nr.: 01-2119456810-40-xxxx	Hydrocarbons, C11-C13, Isoalkanes, <2% aromatics Asp. Tox. 1, H304 EUH066	25-50%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	<12.5%
CAS: 90622-58-5 EINECS: 292-460-6 Reg.nr.: 01-2119456810-40	C11-15-Isoalkanes Asp. Tox. 1, H304 EUH066	1-5%
CAS: 108-21-4 EINECS: 203-561-1 Index number: 607-024-00-6 Reg.nr.: 01-2119537214-46	isopropyl acetate Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	1-5%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	1-5%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· General information: Take affected persons out into the fresh air.
Position and transport stably in side position.
Immediately remove any clothing soiled by the product.

· After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact: If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing: A person vomiting while laying on their back should be turned onto their side.

· **4.2 Most important symptoms and effects, both acute and delayed**

Headache
Dizziness
Dizziness
Nausea
Gastric or intestinal disorders
Cramp

· Hazards Danger of impaired breathing.

· **4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed or in case of vomiting, danger of entering the lungs.
If swallowed, gastric irrigation with added, activated carbon.
Monitor circulation.

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.

· **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.
Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Carbon monoxide (CO)

· **5.3 Advice for firefighters**

· Protective equipment: Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Wear fully protective suit.

· Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation
Use respiratory protective device against the effects of fumes/dust/aerosol.
Keep away from ignition sources.

· **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.

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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:** 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** Keep receptacles tightly sealed.
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection: Highly volatile, flammable constituents are released during processing.

· **7.2 Conditions for safe storage, including any incompatibilities**

· Storage:

· Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.
Provide solvent resistant, sealed floor.
Store only in the original receptacle.

· Information about storage in one common storage facility: Store away from oxidising agents.
Store away from foodstuffs.

· Further information about storage conditions: Store receptacle in a well ventilated area.

· Storage class: 3

· **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:	
123-86-4 n-butyl acetate	
IOELV	Short-term value: 723 mg/m³, 150 ppm Long-term value: 241 mg/m³, 50 ppm

· DNELs		
123-86-4 n-butyl acetate		
Oral	DNEL (Kurzzeit-akut)	2 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	2 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	11 mg/kg bw/day (ARB)
		6 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	11 mg/kg bw/day (ARB)
		6 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	600 mg/m³ Air (ARB)
		300 mg/m³ Air (BEV)

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	DNEL (Langzeit-wiederholt)	300 mg/m³ Air (ARB)
		35.7 mg/m³ Air (BEV)
108-21-4 isopropyl acetate		
Oral	DNEL (Langzeit-wiederholt)	26 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	43 mg/kg bw/day (ARB)
		26 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	850 mg/m³ Air (ARB)
		510 mg/m³ Air (BEV)
	DNEL (Langzeit-wiederholt)	227-279 mg/m³ Air (ARB)
		136-168 mg/m³ Air (BEV)
67-63-0 propan-2-ol		
Oral	DNEL (Kurzzeit-akut)	51 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	26 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	888 mg/kg bw/day (ARB)
		319 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	1,000 mg/m³ Air (ARB)
		178 mg/m³ Air (BEV)
	DNEL (Langzeit-wiederholt)	500 mg/m³ Air (ARB)
		89 mg/m³ Air (BEV)

· PNECs

123-86-4 n-butyl acetate	
PNEC (wässrig)	35.6 mg/l (KA)
	0.018 mg/l (MW)
	0.18 mg/l (SW)
	0.36 mg/l (WAS)
PNEC (fest)	0.0903 mg/kg Trockengew (BO)
	0.0981 mg/kg Trockengew (MWS)
	0.981 mg/kg Trockengew (SWS)
108-21-4 isopropyl acetate	
PNEC (wässrig)	190 mg/l (KA)
	0.022 mg/l (MW)
	0.22 mg/l (SW)
PNEC (fest)	0.35 mg/kg Trockengew (BO)
	0.125 mg/kg Trockengew (MWS)
	1.25 mg/kg Trockengew (SWS)
67-63-0 propan-2-ol	
PNEC (wässrig)	2,251 mg/l (KA)
	140.9 mg/l (MW)
	140.9 mg/l (SW)
	140.9 mg/l (WAS)
PNEC (fest)	28 mg/kg Trockengew (BO)
	552 mg/kg Trockengew (MWS)
	552 mg/kg Trockengew (SWS)

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

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· **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:
Do not eat or drink while working.
Apply solvent resistant skin cream before starting work.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.

· Respiratory protection: Short term filter device:
Filter AX
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.

· Hand protection
After use of gloves apply skin-cleaning agents and skin cosmetics.
Preventive skin protection by use of skin-protecting agents is recommended.
After each cleaning use treatment creams, for very dry skin greasy ointments.

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
Skin protection agent recommendation for preventive skin shelter without use of protective gloves:
STOKODERM (http://www.stoko.com)
Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:
STOKO EMULSION (http://www.stoko.com)
Skin protection recommendation for skin cleaning after product handling:
FRAPANTOL (http://www.stoko.com)
Skin protection agent recommendation for skin aftercare:
STOKO VITAN (http://www.stoko.com)
The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type.
The mentioned permeation times´ data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory anylyses of the company KCL GmbH in compliance with EN374.
This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: http://www.kcl.de).

· Material of gloves
Nitrile rubber, NBR
Fluorocarbon rubber (Viton)
Butyl rubber, BR
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.

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· Penetration time of glove material	Value for the permeation: Level ≤ 1, 30 min The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· For the permanent contact gloves made of the following materials are suitable:	Nitrile rubber, NBR Camatril (KCL, Art_No. 730, 731, 732, 733) Fluorocarbon rubber (Viton) Vitoject (KCL, Art_No. 890) Butyl rubber, BR Butoject (KCL, Art_No. 897, 898)
· As protection from splashes gloves made of the following materials are suitable:	Nitrile rubber, NBR Camatril (KCL, 730, 731, 732, 733)
· Not suitable are gloves made of the following materials:	Chloroprene rubber, CR Strong material gloves Leather gloves Natural rubber, NR
· Eye/face protection	Goggles recommended during refilling
· Body protection:	Solvent resistant protective clothing

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information	
· Colour:	Colourless
· Odour:	Characteristic
· Melting point/freezing point:	Undetermined. Not applicable
· Boiling point or initial boiling point and boiling range	126 °C
· Flammability	Not determined
· Lower and upper explosion limit	
· Lower:	3 Vol % (123-86-4 n-butyl acetate)
· Upper:	10.4 Vol % (123-86-4 n-butyl acetate)
· Flash point:	28 °C
· Auto-ignition temperature:	370 °C
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
· Vapour pressure at 20 °C:	10.7 hPa (123-86-4 n-butyl acetate)
· Vapour pressure at 50 °C:	55 hPa
· Density and/or relative density	
· Density at 20 °C:	0.8 g/cm³

· 9.2 Other information

· Appearance:	
· Form:	Fluid
· 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.

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· Solvent content:	
· Organic solvents:	94.0 %

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

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.

· **10.3 Possibility of hazardous reactions** Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
Reacts with strong oxidising agents.
Reacts with acids.
Forms flammable gases/fumes.

· **10.4 Conditions to avoid** No further relevant information available.

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

· **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide
Hydrogen fluoride

*

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:

Hydrocarbons, C11-C12, Isoalkanes, <2% aromatics		
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,200 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	mg/l (rat) (OECD 403)
Hydrocarbons, C11-C13, Isoalkanes, <2% aromatics		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

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	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4h	>5.6 mg/m3 (rat)
	LC50/8h	>5,000 ppm (rat)
	NOAEC	1,000 mg/l (rat)
123-86-4 n-butyl acetate		
Oral	LD50	10,760 mg/kg (rat) (OECD 423)
Dermal	LD50	14,112 mg/kg (rat) (OECD 402)
Inhalative	LC50/4 h	>21 mg/l (rat) (OECD 403)
	LC50	390 mg/m3 (rat)
	LC50/48h	64 mg/l (Brachydanio rerio)
90622-58-5 C11-15-Isoalkanes		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg (rabbit)
Inhalative	LC50/4 h	>5.6 mg/l (rat)
108-21-4 isopropyl acetate		
Oral	LD50	3,000 mg/kg (rat)
67-63-0 propan-2-ol		
Oral	LD50	>2,000 mg/kg (rabbit)
		5,840 mg/kg (rat) (OECD 401)
	NOAEL-Werte	400 mg/kg (rat)
Dermal	LD50	13,900 mg/kg (rabbit) (OECD 402)
		16,400 mg/kg (rabbit) (OECD402)
Inhalative	LC50/8h	47.5 ppm (rat)
	LC50/4 h	>25 mg/l (rat)
	LC50	25,000 mg/m3 (rat)
	LC50/48h	>100 mg/l (Leuciscus idus)

· Primary irritant effect:
· Skin corrosion/irritation Based on available data, the classification criteria are not met.
· Serious eye damage/irritation Based on available data, the classification criteria are not met.
· 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 May be fatal if swallowed and enters airways.
· **11.2 Information on other hazards**

· Endocrine disrupting properties

None of the ingredients is listed.

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SECTION 12: Ecological information

· **12.1 Toxicity**

· Aquatic toxicity:

Hydrocarbons, C11-C12, Isoalkanes, <2% aromatics	
EL0/48h	1,000 mg/l (daphnia magna)
EL0/72h	1,000 mg/l (Pseudokirchneriella subcapitata)

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LL0/96h	1,000 mg/l (Oncorhynchus mykiss)
NOELR/72h	1,000 mg/l (Pseudokirchneriella subcapitata)
NOEC/21d	0.011 mg/l (daphnia magna)
NOELR/21d	>1 mg/l (daphnia magna) (OECD 211)
EC50/48h	>1,000 mg/l (daphnia magna) (OECD 202)
EC50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LC50/96h	>1,000 mg/l (Oncorhynchus mykiss) (OECD 203)
Hydrocarbons, C11-C13, Isoalkanes, <2% aromatics	
EC50/48h	>1,000 mg/l (daphnia magna) (OECD 202)
ErC50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata)
EL0/48h	1,000 mg/l (daphnia magna)
LL0/96h	1,000 mg/l (Oncorhynchus mykiss)
NOELR/72h	1,000 mg/l (Pseudokirchneriella subcapitata)
NOELR/21d	1 mg/l (daphnia magna) (OECD 211)
EC50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LC50/96h	>1,000 mg/l (Oncorhynchus mykiss) (OECD 203)
123-86-4 n-butyl acetate	
EC50/24h	72.8 mg/l (daphnia magna) (DIN 38412)
EC50/96h	320 mg/l (algae)
LC50/24h	205 mg/l (daphnia magna)
IC50/72h	648 mg/l (Desmodesmus subspicatus)
EC10/18h	959 mg/l (pseudomonas putida)
EC50/48h	44 mg/l (daphnia magna) (OECD 202)
ErC50/72h	675 mg/l (Scenedesmus subspicatus)
EC50/16h	959 mg/l (pseudomonas putida)
NOEC	200 mg/kg (Desmodesmus subspicatus)
NOEC/21d	23 mg/l (daphnia magna) (OECD 211)
EC50/72h	647.7 mg/l (Desmodesmus subspicatus) (Zellvermehrungshemmtest)
	397 mg/l (Scenedesmus subspicatus)
LC50/96h	62 mg/l (Danio rerio.)
	81 mg/l (piscis)
	100 mg/l (lepomis macrochirus)
	62 mg/l (Leuciscus idus) (DIN 38412)
	mg/l (Oncorhynchus mykiss)
	18 mg/l (pimephales promelas) (OECD 203)
90622-58-5 C11-15-Isoalkanes	
EL0/48h	1,000 mg/l (daphnia magna)
EL0/72h	1,000 mg/l (Pseudokirchneriella subcapitata)
LL0/96h	1,000 mg/l (Oncorhynchus mykiss)
NOELR/72h	1,000 mg/l (Pseudokirchneriella subcapitata)
NOELR/21d	1 mg/l (daphnia magna)
EC50/48h	<100 mg/l (daphnia magna)
LC50/96h	2,890 mg/l (pimephales promelas)
67-63-0 propan-2-ol	
EC50/24h	9,714 mg/l (daphnia magna)

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EC50	>1,000 mg/l (BES)
LC50/24h	9,714 mg/l (daphnia magna)
EC50/15min	22,000 mg/l (Photobac. phosphoreum)
IC50/72h	>1,000 mg/l (Desmodesmus subspicatus)
EC10/18h	5,175 mg/l (pseudomonas putida) (DIN 38412)
EC50/48h	9,714 mg/l (daphnia magna) (OECD 202)
EC50/72h	>1,000 mg/l (algae)
	>100 mg/l (Scenedesmus subspicatus)
LC50/96h	6,550 mg/l (piscis)
	9,640 mg/l (Pimephales promelas) (OECD 203)

· **12.2 Persistence and degradability** No further relevant information available.
· Other information: The product is not easily biodegradable.
· **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: Do not allow product to reach ground water, water course or sewage system.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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.

· European waste catalogue	
20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 13*	solvents
07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 07 00	wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 04*	other organic solvents, washing liquids and mother liquors

· Uncleaned packaging:
· Recommendation: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
· Recommended cleansing agents: Alcohol

SECTION 14: Transport information

· **14.1 UN number or ID number**
· ADR, IMDG, IATA UN3295

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· **14.2 UN proper shipping name**	
· ADR	3295 HYDROCARBONS, LIQUID, N.O.S. (ISOPROPYL ACETATE, ISOPROPANOL (ISOPROPYL ALCOHOL))
· IMDG, IATA	HYDROCARBONS, LIQUID, N.O.S. (ISOPROPYL ACETATE, ISOPROPANOL (ISOPROPYL ALCOHOL))
· **14.3 Transport hazard class(es)**	
· ADR	
· Class	3 (F1) Flammable liquids.
· Label	3
· IMDG, IATA	
· Class	3 Flammable liquids.
· Label	3
· **14.4 Packing group**	
· ADR, IMDG, IATA	III
· **14.5 Environmental hazards:**	
· Marine pollutant:	No
· **14.6 Special precautions for user**	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	30
· EMS Number:	F-E,S-D
· Stowage Category	A
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3295 HYDROCARBONS, LIQUID, N.O.S. (ISOPROPYL ACETATE, ISOPROPANOL (ISOPROPYL ALCOHOL)), 3, III

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* **SECTION 15: Regulatory information**

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· 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 1907/2006 ANNEX XVII	Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

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.

· 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.

· National regulations:

· Information about limitation of use:	Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.
· Waterhazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU	747.4 g/l
· **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.
This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Department issuing SDS:	Laboratory
· Date of previous version:	02.06.2025
· Version number of previous version:	8

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· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4