

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) 2020/878)

Septiject Aerosol

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

1.1. Product identifier

Product name Septiject Aerosol

Product code 002007

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

Use of the Substance/Mixture No information available.

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification UKAL ELEVAGE
Parc économique de la Sauer
2 rue de l'Etang
67360 ESCHBACH
FRANCE
Tel: +33 3 88 07 40 15
e-mail: ukalel@ukal.com

1.4. Emergency telephone number +41 44 251 66 66 (Tox Center, Germany)
24h-Notruf: +41 44 251 51 51
+33 3 83 22 50 50 (Tox Center, France, 24h/24h)
+32 070 245 245 (Tox Center, Belgium, 24h/24h)

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Version 001

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 Serious eye damage/eye irritation, Cat. 2, H319
Aerosols, Cat. 2, H223 H229

Additional information For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements



Signal Word

Warning

Hazard Statements

H223: Flammable aerosol.
H229: Pressurised container: May burst if heated.
H319: Causes serious eye irritation.

Precautionary statements

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251: Do not pierce or burn, even after use.
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
P280: Wear protective gloves, protective clothing, eye protection and face protection.
P403+P235: Store in a well-ventilated place. Keep cool.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P501: Dispose of contents/ container to an approved waste disposal plant.

Supplemental information

None.

Product identifier

Not required.

2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture.
Flammable.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Alcoholic solution.

Components	Weight %	CLP Classification	Product identifier
Isopropanol	10% - 25%	Eye Irrit. 2 H319, STOT SE 3 H336, Flam. Liq. 2 H225	CAS-No.: 67-63-0 EC-No.: 200-661-7 Index-No: 603-117-00-0
Benzyl-C12-16-alkyldimethylammonium chloride	< 1%	Acute Tox. 4 H302, Skin Corr. 1B H314, Aquatic Acute 1 H400 , M-Factor Acute=10 chronic=10	CAS-No.: 68424-85-1 EC-No.: 270-325-2
Didecyldimethylammonium chloride	< 1%	Acute Tox. 3 H301, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400, Aquatic Chronic 2 H411 , M-Factor Acute=10 chronic=10	CAS-No.: 7173-51-5 EC-No.: 230-525-2
C12-14-Alkyl[(ethylphenyl)methyl]dimethylammonium chloride	< 1%	Acute Tox. 4 H302, Skin Corr. 1B H314, Aquatic Acute 1 H400	CAS-No.: 85409-23-0 EC-No.: 287-090-7
Dimethyl ether	50% - 75%	Flam. Gas 1 H220, Press. Gas H280	CAS-No.: 115-10-6 EC-No.: 204-065-8 Index-No: 603-019-00-8

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Consult a physician for severe cases. Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If breathing is difficult, give oxygen.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Protect unharmed eye. Consult an ophthalmologist.
Ingestion	Obtain medical attention. Clean mouth with water and drink afterwards plenty of water. Prevent vomiting if possible.

4.2. Most important symptoms and effects, both acute and delayed Anticipated acute effects: Superficial burning sensation. Blurred vision. Most important symptoms: Weakness. Dizziness. May cause cryogenic burns or injury.

4.3. Indication of any immediate medical attention and special treatment needed None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray. Use water spray, alcohol-resistant foam, dry extinguishing agent or carbon dioxide.

Unsuitable extinguishing media High volume water jet.

5.2. Special hazards arising from the substance or mixture Flash back possible over considerable distance. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Highly flammable. Vapours are heavier than air and may spread along floors. During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Closed containers may explode due to pressure build-up when subjected to excessive heat or intense fire.

5.3. Advice for firefighters

Special protective equipment for firefighters Standard procedure for chemical fires. In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes. Complete suit protecting against chemicals.

Specific methods Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water mist may be used to cool closed containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours/dust. Remove all sources of ignition. Pay attention to flashback. Vapours are heavier than air and may spread along floors.

For emergency responders Immediately evacuate personnel to safe areas. Remove all sources of ignition. Pay attention to flashback. Prevent unauthorised persons entering the zone. Vapours are heavier than air and may spread along floors. Use personal protective equipment. Do not breathe vapours/dust. Ventilate the area.

6.2. Environmental precautions Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean up promptly by sweeping or

vacuum.

6.4. Reference to other sections See chapter 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Vapours are heavier than air and may spread along floors. Wear personal protective equipment. Keep product and empty container away from heat and sources of ignition. Take precautionary measures against static discharges. Plan first aid action before beginning work with this product. Do not breathe vapours/dust. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place accessible by authorized persons only. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. For safety reasons in case of fire, cans should be stored separately in closed containments.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)

No data is available on the product itself.

Isopropanol (CAS 67-63-0)

Belarus - Occupational Exposure Limits - Harmful Substances - Class 3 - Moderately Dangerous Substances

Present

Belarus - Occupational Exposure Limits - MACs

50 mg/m³ MAC (vapor)

Belarus - Occupational Exposure Limits - TWAs

10 mg/m³ TWA ([1898], vapor)

Norway - Occupational Exposure Limits - STELs

150 ppm STEL (value calculated)
306.25 mg/m³ STEL (value calculated)

Norway - Occupational Exposure Limits - TWAs

100 ppm TWA
245 mg/m³ TWA

Switzerland - Biological Limit Values (BAT-Werte)

25 mg/L Medium: urine Time: end of shift Parameter: Acetone
0.4 mmol/L Medium: urine Time: end of shift Parameter: Acetone
25 mg/L Medium: whole blood Time: end of shift Parameter: Acetone
0.4 mmol/L Medium: whole blood Time: end of shift Parameter: Acetone

Switzerland - Occupational Exposure Limits - Developmental Risk Groups

Developmental Risk Group C

Switzerland - Occupational Exposure Limits - STELs - (KZGWs)

400 ppm STEL [KZGW] INRS NIOSH
1000 mg/m³ STEL [KZGW] INRS NIOSH

Switzerland - Occupational Exposure Limits - TWAs - (MAKs)

200 ppm TWA [MAK] INRS NIOSH
500 mg/m³ TWA [MAK] INRS NIOSH

UK - Workplace Exposure Limits (WELs) - STELs	500 ppm STEL
UK - Workplace Exposure Limits (WELs) - TWAs	1250 mg/m ³ STEL
Austria - Occupational Exposure Limits - Carcinogens	400 ppm TWA
Austria - Occupational Exposure Limits - STELs - (MAK-KZGWs)	999 mg/m ³ TWA
Austria - Occupational Exposure Limits - TWAs - (MAK-TMWs)	Group C Carcinogen (by manufacturing of strong Acid process)
Belgium - Occupational Exposure Limits - STELs	Group C Carcinogen (residue from Isopropanol manufacturing)
Belgium - Occupational Exposure Limits - TWAs	800 ppm STEL [KZGW] (4 X 15 min)
Bulgaria - Occupational Exposure Limits - STELs	2000 mg/m ³ STEL [KZGW] (4 X 15 min)
Bulgaria - Occupational Exposure Limits - TWAs	200 ppm TWA [TMW]
Croatia - Occupational Exposure Limits - Binding Biological Limit Values (VLBO)	500 mg/m ³ TWA [TMW]
Croatia - Occupational Exposure Limits - STELs (KGVI)	400 ppm STEL
Croatia - Occupational Exposure Limits - TWAs (GVI)	1000 mg/m ³ STEL
Cyprus - Occupational Exposure - Control of Atmosphere and Dangerous Substances in Factories - Table 1 - Direct Danger	200 ppm TWA
Cyprus - Occupational Exposure - Control of Atmosphere and Dangerous Substances in Factories - Table 1 - MAC	500 mg/m ³ TWA
Cyprus - Occupational Exposure - Control of Atmosphere and Dangerous Substances in Factories - Table 1 - Skin Notation	400 ppm TWA
Czech Republic - Occupational Exposure Limits - Ceilings	999 mg/m ³ TWA [GVI]
Czech Republic - Occupational Exposure Limits - Irritants	1250 mg/m ³ STEL [KGVI]
Czech Republic - Occupational Exposure Limits - Skin Notation	400 ppm TWA [GVI]
Czech Republic - Occupational Exposure Limits - TWAs	999 mg/m ³ TWA [GVI]
Denmark - Occupational Exposure Limits - List of Organic Solvents with TWA Values	Present (Notice 2, Table 9)
Denmark - Occupational Exposure Limits - STELs	Present
Denmark - Occupational Exposure Limits - TWAs	980 mg/m ³ MAC (Notice 2, Table 9)
Estonia - Occupational Exposure Limits - STELs	400 ppm MAC (Notice 2, Table 9)
Estonia - Occupational Exposure Limits - TWAs	400 ppm MAC (Notice 2, Table 9)
Finland - Occupational Exposure Limits - STELs	Skin-potential for cutaneous absorption (Notice 2, Table 9)
Finland - Occupational Exposure	

Limits - TWAs	500 mg/m ³ TWA (listed under Propanol)
France - Occupational Exposure Limits - STELs (VLCT)	400 ppm STEL [VLCT] 980 mg/m ³ STEL [VLCT]
France - Occupational Illnesses	RG 84
Germany - DFG - Recommended Exposure Limits - Ceilings (Peak Limitations)	400 ppm Peak 1000 mg/m ³ Peak
Germany - DFG - Recommended Exposure Limits - Pregnancy	no risk to embryo/fetus if exposure limits adhered to
Germany - DFG - Recommended Exposure Limits - TWAs (MAKs)	200 ppm TWA MAK 500 mg/m ³ TWA MAK
Germany - TRGS 900 - Occupational Exposure Limits - TWAs (AGWs)	200 ppm TWA AGW (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2) 500 mg/m ³ TWA AGW (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)
Greece - Occupational Exposure Limits - STELs	500 ppm STEL 1225 mg/m ³ STEL
Greece - Occupational Exposure Limits - TWAs	400 ppm TWA 980 mg/m ³ TWA
Hungary - Occupational Exposure Limits - Irritants	Irritant (165)
Hungary - Occupational Exposure Limits - Skin Notations	Potential for cutaneous absorption (165)
Hungary - Occupational Exposure Limits - STELs (CKs)	1000 mg/m ³ STEL [CK] (165) 400 ppm STEL [CK] (165)
Hungary - Occupational Exposure Limits - TWAs (AKs)	500 mg/m ³ TWA [AK] (165) 200 ppm TWA [AK] (165)
Ireland - Occupational Exposure Limits - Skin Notations	Potential for cutaneous absorption
Ireland - Occupational Exposure Limits - STELs	400 ppm STEL
Ireland - Occupational Exposure Limits - TWAs	200 ppm TWA
Latvia - Occupational Exposure Limits - STELs	600 mg/m ³ STEL ([340])
Latvia - Occupational Exposure Limits - TWAs	350 mg/m ³ TWA ([340])
Lithuania - Occupational Exposure Limits - STELs (TPRDs)	250 ppm STEL [TPRD] ([420]) 600 mg/m ³ STEL [TPRD] ([420])
Lithuania - Occupational Exposure Limits - TWAs (IPRDs)	150 ppm TWA [IPRD] ([420]) 350 mg/m ³ TWA [IPRD] ([420])
Poland - Occupational Exposure Limits - Skin Notations	Skin Notation ([447])
Poland - Occupational Exposure Limits - STELs (NDSChs)	1200 mg/m ³ STEL [NDSCh]
Poland - Occupational Exposure Limits - TWAs (NDSs)	900 mg/m ³ TWA [NDS]
Portugal - Occupational Exposure Limits - Carcinogens	A4 - Not Classifiable as a Human Carcinogen
Portugal - Occupational Exposure Limits - STELs (VLE-CDs)	400 ppm STEL [VLE-CD]
Portugal - Occupational Exposure Limits - TWAs (VLE-MPs)	200 ppm TWA [VLE-MP]
Romania - Occupational Exposure Limits - Binding Biological Limit Values (VLBO)	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (2)
Romania - Occupational Exposure Limits - STELs	203 ppm STEL 500 mg/m ³ STEL

Romania - Occupational Exposure Limits - TWAs	81 ppm TWA 200 mg/m3 TWA
Slovak Republic - Occupational Exposure Limits - Ceilings	1000 mg/m3 Ceiling
Slovak Republic - Occupational Exposure Limits - TWAs	200 ppm TWA 500 mg/m3 TWA
Slovenia - Occupational Exposure Limits - Binding Biological Limit Values	25 mg/L Medium: blood Time: at the end of the work shift Parameter: Acetone 25 mg/L Medium: urine Time: at the end of the work shift Parameter: Acetone
Slovenia - Occupational Exposure Limits - STELs	400 ppm STEL 1000 mg/m3 STEL
Slovenia - Occupational Exposure Limits - TWAs	200 ppm TWA 500 mg/m3 TWA
Spain - Biological Limit Values	40 mg/L urine end of workweek Acetone [1 F I]
Spain - Occupational Exposure Limits - STELs	400 ppm STEL [VLA-EC] 1000 mg/m3 STEL [VLA-EC]
Spain - Occupational Exposure Limits - TWAs (VLA-EDs)	200 ppm TWA [VLA-ED] (partial or complete commercialization or use of this substance as a phytosanitary or biocide compound is prohibited) 500 mg/m3 TWA [VLA-ED] (partial or complete commercialization or use of this substance as a phytosanitary or biocide compound is prohibited)
Sweden - Occupational Exposure Limits - STELs	250 ppm Indicative STEL Vägledande KGV 600 mg/m3 Indicative STEL Vägledande KGV
Sweden - Occupational Exposure Limits - TLVs	150 ppm TLV NGV 350 mg/m3 TLV NGV
Didecyldimethylammonium chloride (CAS 7173-51-5)	
Belarus - Occupational Exposure Limits - Harmful Substances - Class 2 - Highly Dangerous Substances	Present (Arquad 2.10.50)
Belarus - Occupational Exposure Limits - Harmful Substances - Skin Notations	Skin notation (Arquad 2.10.50)
Belarus - Occupational Exposure Limits - MACs	1 mg/m3 MAC (Arquad 2.10.50, aerosol)
C12-14-Alkyl[(ethylphenyl)methyl]dimethylammonium chloride (CAS 85409-23-0)	
Belarus - Occupational Exposure Limits - Harmful Substances - Class 2 - Highly Dangerous Substances	Present
Belarus - Occupational Exposure Limits - MACs	1 mg/m3 MAC (aerosol)
Dimethyl ether (CAS 115-10-6)	
Albania - Occupational Exposure Limits - TWAs	1920 mg/m3 TWA ([048]) 1000 ppm TWA ([048])
Belarus - Occupational Exposure Limits - Harmful Substances - Class 4 - Low Dangerous Substances	Present
Belarus - Occupational Exposure Limits - MACs	600 mg/m3 MAC (vapor)
Belarus - Occupational Exposure Limits - TWAs	200 mg/m3 TWA ([1716], vapor)
Norway - Occupational Exposure Limits - STELs	250 ppm STEL (value calculated) 480 mg/m3 STEL (value calculated)
Norway - Occupational Exposure Limits - TWAs	200 ppm TWA 384 mg/m3 TWA
Serbia - Occupational Exposure Limits - TWAs (GVIs)	1000 ppm TWA 1920 mg/m3 TWA

Switzerland - Occupational Exposure Limits - TWAs - (MAKs)	1000 ppm TWA [MAK] 1910 mg/m ³ TWA [MAK]
UK - Workplace Exposure Limits (WELs) - STELs	500 ppm STEL 958 mg/m ³ STEL
UK - Workplace Exposure Limits (WELs) - TWAs	400 ppm TWA 766 mg/m ³ TWA
EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - TWAs	1000 ppm TWA 1920 mg/m ³ TWA
Austria - Occupational Exposure Limits - STELs - (MAK-KZGWs)	2000 ppm STEL [KZGW] (3 X 60 min) 3820 mg/m ³ STEL [KZGW] (3 X 60 min)
Austria - Occupational Exposure Limits - TWAs - (MAK-TMWs)	1000 ppm TWA [TMW] 1910 mg/m ³ TWA [TMW]
Belgium - Occupational Exposure Limits - TWAs	1000 ppm TWA 1920 mg/m ³ TWA
Bulgaria - Occupational Exposure Limits - TWAs	1000 ppm TWA 1920 mg/m ³ TWA
Croatia - Occupational Exposure Limits - TWAs (GVIs)	1000 ppm TWA [GVI] 1920 mg/m ³ TWA [GVI]
Cyprus - Occupational Exposure Limits - TWAs	1000 ppm TWA 1920 mg/m ³ TWA
Czech Republic - Occupational Exposure Limits - Ceilings	2000 mg/m ³ Ceiling
Czech Republic - Occupational Exposure Limits - TWAs	1000 mg/m ³ TWA
Denmark - Occupational Exposure Limits - List of Organic Solvents with TWA Values	Present
Denmark - Occupational Exposure Limits - STELs	2000 ppm STEL 3840 mg/m ³ STEL
Denmark - Occupational Exposure Limits - TWAs	1000 ppm TWA 1920 mg/m ³ TWA
Estonia - Occupational Exposure Limits - TWAs	1000 ppm TWA 1920 mg/m ³ TWA
Finland - Occupational Exposure Limits - TWAs	1000 ppm TWA 2000 mg/m ³ TWA
France - Occupational Exposure Limits - TWAs (VME)	1000 ppm TWA [VME] (indicative limit) 1920 mg/m ³ TWA [VME] (indicative limit)
Germany - DFG - Recommended Exposure Limits - Ceilings (Peak Limitations)	8000 ppm Peak 15200 mg/m ³ Peak
Germany - DFG - Recommended Exposure Limits - Pregnancy	classification not yet possible
Germany - DFG - Recommended Exposure Limits - TWAs (MAKs)	1000 ppm TWA MAK 1900 mg/m ³ TWA MAK
Germany - TRGS 900 - Occupational Exposure Limits - TWAs (AGWs)	1000 ppm TWA AGW (exposure factor 8) 1900 mg/m ³ TWA AGW (exposure factor 8)
Greece - Occupational Exposure Limits - TWAs	1000 ppm TWA 1920 mg/m ³ TWA
Hungary - Occupational Exposure Limits - TWAs (AKs)	1000 ppm TWA [AK] (102) 1920 mg/m ³ TWA [AK] (102)
Ireland - Occupational Exposure Limits - STELs	3000 ppm STEL (calculated) 5760 mg/m ³ STEL (calculated)
Ireland - Occupational Exposure Limits - TWAs	1000 ppm TWA 1920 mg/m ³ TWA
Italy - Occupational Exposure Limits - TWAs	1000 ppm TWA Time Weighted Average 1920 mg/m ³ TWA Time Weighted Average
Latvia - Occupational Exposure	1000 ppm TWA ([199])

Limits - TWAs	1920 mg/m ³ TWA ([199])
Lithuania - Occupational Exposure Limits - STELs (TPRDs)	1500 ppm STEL [TPRD] ([268])
Lithuania - Occupational Exposure Limits - TWAs (IPRDs)	2280 mg/m ³ STEL [TPRD] ([268])
Luxembourg - Occupational Exposure Limits - TWAs	1000 ppm TWA [IPRD] ([268])
Netherlands - Occupational Exposure Limits - STELs	1920 mg/m ³ TWA [IPRD] ([268])
Netherlands - Occupational Exposure Limits - TWAs	1000 ppm TWA
Poland - Occupational Exposure Limits - TWAs (NDSs)	1920 mg/m ³ TWA
Portugal - Occupational Exposure Limits - TWAs (VLE-MPs)	781 ppm STEL
Romania - Occupational Exposure Limits - TWAs	1500 mg/m ³ STEL
Slovak Republic - Occupational Exposure Limits - TWAs	495 ppm TWA
Slovenia - Occupational Exposure Limits - STELs	950 mg/m ³ TWA
Slovenia - Occupational Exposure Limits - TWAs	1000 mg/m ³ TWA [NDS]
Spain - Occupational Exposure Limits - TWAs (VLA-EDs)	1000 ppm TWA [VLE-MP] (indicative limit value)
Sweden - Occupational Exposure Limits - STELs	1920 mg/m ³ TWA [VLE-MP] (indicative limit value)
Sweden - Occupational Exposure Limits - TWAs	1000 ppm TWA
Sweden - Occupational Exposure Limits - TLVs	1920 mg/m ³ TWA
	1000 ppm TWA
	1920 mg/m ³ TWA
	15360 mg/m ³ STEL
	8000 ppm STEL
	1000 ppm TWA
	1920 mg/m ³ TWA
	1000 ppm TWA [VLA-ED] (indicative limit value)
	1920 mg/m ³ TWA [VLA-ED] (indicative limit value)
	800 ppm Indicative STEL Vägledande KGV
	1500 mg/m ³ Indicative STEL Vägledande KGV
	500 ppm TLV NGV
	950 mg/m ³ TLV NGV

8.2. Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

Personal protection equipment

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment. Respirator with combination filter for vapour/particulate (EN 14387).

Hand protection

The selected protective gloves have to satisfy the specifications of Regulation (EU) No. 2016/425 and the standard EN 374 derived from it. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.

Eye protection

Safety glasses with side-shields conforming to EN166.

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Long sleeved clothing.

Thermal hazards

Keep product and empty container away from heat and sources of ignition.

Environmental exposure controls

Prevent product from entering surface water or sewage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid. Aerosol.
Colour	Dark violet.
Odour	Alcoholic. Sweet.
Melting point/ freezing point:	Not determined.
Boiling point or initial boiling point / range:	< - 20C
Flammability:	combustible
Lower and upper explosion limit:	Not determined.
Flash point:	< -20°C
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
pH:	6.8 -7.2 (% in solution)
Kinematic viscosity:	Not determined.
Solubility:	Not determined.
Partition coefficient n-octanol/water (log value):	Not determined.
Vapour pressure:	510 kPA
Density and/or relative density:	Not determined.
Relative vapour density:	Not determined.
Particle characteristics:	not relevant (liquid)

9.2. Other information

9.2.1 Information with regard to physical hazard classes	No information available.
9.2.2 Other safety characteristics	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	Risk of ignition. Heat, shock, or contact with other material may cause fire or explosive decomposition. May form explosive mixtures in air.
10.2. Chemical stability	No decomposition if used as directed.
10.3. Possibility of hazardous reactions	Vapours may form explosive mixture with air. Vapors may spread long distances and ignite. Spray mist may be flammable at temperatures below the flash point of the solvents. Spray mist may be flammable at temperatures below the flash point.
10.4. Conditions to avoid	Take precautionary measures against static discharges. Heat, flames and sparks. Burning produces obnoxious and toxic fumes.
10.5. Incompatible materials	None.
10.6. Hazardous decomposition products	None under normal use.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	Isopropanol (CAS 67-63-0) Dermal LD50 Rabbit = 4059 mg/kg (JAPAN_GHS) Inhalation LC50 Rat > 10000 ppm 6 h(ECHA_API) Oral LD50 Rat = 1870 mg/kg (JAPAN_GHS) Benzyl-C12-16-alkyldimethylammonium chloride (CAS 68424-85-1) LD50/oral/rat = 344 mg/kg. LD50/dermal/rabbit = 3340 mg/kg. Didecyldimethylammonium chloride (CAS 7173-51-5) LD50/oral/rat = 238 mg/kg. LD50/dermal/rabbit = 3342 mg/kg. C12-14-Alkyl[(ethylphenyl)methyl]dimethylammonium chloride (CAS 85409-23-0) Dermal LD50 Rabbit = 2300 mg/kg (ECHA_API) Dimethyl ether (CAS 115-10-6) Inhalation LC50 Rat = 164000 ppm 4 h(EPA_HP)
Skin corrosion/irritation	May irritate skin.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory / Skin Sensitisation	None.
Carcinogenicity	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	The substance or mixture is not classified as target organ toxic, single exposure. May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	The substance or mixture is not classified as toxic to the target organ, repeated exposure.
Aspiration hazard	The substance or mixture is not to be classified as hazardous to aspiration.
Human experience	No data available.

11.2. Information on other hazards

Endocrine disrupting properties	Contains no endocrine disrupting chemicals.
Other information	No data available.

SECTION 12: Ecological information

12.1. Toxicity	No data is available on the product itself. May change pH of waters.
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Isopropanol (CAS 67-63-0)

Ecotoxicity - Freshwater Algae -
Acute Toxicity Data
Ecotoxicity - Freshwater Fish -
Acute Toxicity Data

EC50 96 h *Desmodesmus subspicatus* >1000 mg/L (IUCLID)
EC50 72 h *Desmodesmus subspicatus* >1000 mg/L (IUCLID)
LC50 96 h *Pimephales promelas* 9640 mg/L [flow-through] (IUCLID)
LC50 96 h *Pimephales promelas* 11130 mg/L [static] (IUCLID)
LC50 96 h *Lepomis macrochirus* >1400000 µg/L (EPA)
EC50 48 h *Daphnia magna* 13299 mg/L (IUCLID)

Ecotoxicity - Water Flea - Acute
Toxicity Data

Benzyl-C12-16-alkyldimethylammonium chloride (CAS 68424-85-1)

LC50/96h/Fathead minnows = 0.28 mg/l.
EC50/48h/daphnia = 0.016 mg/l.
EC50/72h/algae = 0.049 mg/l.

Didecyldimethylammonium chloride (CAS 7173-51-5)

EC50/48h/daphnia = 0.062 mg/l.
LC50/96h/algae = 0.026 mg/kg.
LC50/96h/Fathead minnows = 0.19 mg/l.

Dimethyl ether (CAS 115-10-6)

Ecotoxicity - Freshwater Fish -
Acute Toxicity Data

LC50 96 h *Poecilia reticulata* >4.1 g/L [semi-static] (ECHA)

12.2. Persistence and degradability

Expected to be biodegradable. Neutralization is normally necessary before waste water is discharged into water treatment plants.

12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Endocrine disrupting properties

Contains no endocrine disrupting chemicals.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Waste from residues / unused products**

Dispose of in accordance with local regulations. secondo il regolamento sui rifiuti VVEA SR814.600 The named code according to the European Waste Catalogue (EWC) is recommended. Due to the application by the user probably another code has to be applied. Waste disposal number 200113.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information**14.1. UN number or ID number**

UN 1033

14.2. UN proper shipping name DIMETHYL ETHER

14.3. Transport hazard class(es) 2

14.4. Packing group Not applicable.

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 Regulations

ADR/RID UN 1033.
Proper shipping name: DIMETHYL ETHER.
Class 2.
ADR/RID-Labels 2.1.
Classification code 2F.
Hazard identification no. 23.
Limited quantity 0.
Excepted quantity E0.
Transport category 2.
Tunnel restriction code (B/D).

IMDG UN 1033.
Proper shipping name: DIMETHYL ETHER.
Class 2.
IMDG-Labels 2.1.
Limited quantity 0.
Excepted quantity E0.
EmS F-D, S-U.
Marine pollutant: No.

IATA UN 1033.
Proper shipping name: Dimethyl ether.
Class 2.
IATA label 2.1.
Packing instruction (passenger aircraft): forbidden.
Packing instruction (LQ): forbidden.
Packing instruction (cargo aircraft): 200 (150 kg).

Inland navigation ADN UN 1033.
Proper shipping name: DIMETHYL ETHER.
Class 2.
ADN labels 2.1.
Classification code 2F.
Limited quantity 0.
Excepted quantity E0.

Further Information None.

SECTION 15: Regulatory information

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

Regulatory Information

Ingredients according to Regulation (EC) 648/2004/EC:
<5%: cationic surfactants
The product is classified and labelled according to Regulation (EC) No. 1272/2008.
Water contaminating class (WGK Germany) = 1.
Storage class 2.
VOC (CH) = 67./%

Isopropanol (CAS 67-63-0)

Switzerland - Biocides - Annex II -
Active Substances - Minimum
Purity

99 w/w% Sunset Date: 06/30/2026

Switzerland - Biocides - Annex II -
Active Substances - Product Type

Product Type: 1
Product Type: 2
Product Type: 4

Switzerland - Volatile Organic
Compounds (VOCs) - Group I

2905.1290 (only this specific substance is subject to VOC duty)

Switzerland - Water Protection
Ordinance - Water Polluting Liquids
Classification

B

EU - Biocides (2007/565/EC) -
Substances and Product-Types Not
to Be Included in Annexes I, IA and
IB to Directive 98/8/EC

Product type: 9
Product type: 10
Product type: 11
Product type: 12

EU - Biocides (528/2012/EU) -
Active Substances

1 - Human hygiene (Commission Implementing Regulation
2023/1091/EU
Commission Implementing Regulation 2023/1106/EU
Commission Implementing Regulation 2023/1108/EU
Commission Implementing Regulation 2023/1109/EU
Commission Implementing Regulation 2023/1120/EU
Commission Implementing Regulation 2023/1143/EU
Commission Implementing Regulation 2023/1144/EU, listed under
L+R Propanol PT1 Family
Knieler & Team Propanol Family
APESIN alcogel
APESIN Spray
Manorapid express GEL
OP Plus
APESIN Handaktiv
Chemisept IPA-N
Bactacid IPA-N)

2 - Disinfectants and algaecides not intended for direct application
to humans or animals (Commission Implementing Regulation
2015/407/EU
Commission Implementing Regulation 2022/2252/EU
Commission Implementing Decision 2019/2030/EU
Commission Implementing Decision 2020/106/EU
Commission Implementing Decision 2021/754/EU
Commission Implementing Regulation 2023/1105/EU
Commission Implementing Regulation 2023/2087/EU, listed under
perform-IPA product family
DEC-AHOL® product Family
Lyso IPA Surface Disinfection product family
Knieler & Team Propanol Family
IPA Family 1
Superficid express WIPES
Lysoform IPA Surface)

4 - Food and feed area disinfectant (Commission Implementing
Regulation 2015/407/EU
Commission Implementing Regulation 2022/2252/EU
Commission Implementing Decision 2019/2030/EU
Commission Implementing Decision 2020/106/EU
Commission Implementing Decision 2021/754/EU, listed under
perform-IPA product family
Lyso IPA Surface Disinfection product family
Knieler & Team Propanol Family
IPA Family 1)

EU - REACH (1907/2006) - Annex
XVII - Restrictions on Certain
Dangerous Substances
EU - REACH (1907/2006) - List of
Registered Substances
Germany - Water Classification -
Substances According to AwSV
Classified By or Based on the
VwVwS

Use restricted. See entry 75.

Present

Reg. no. 135, hazard class 1 - slightly hazardous to water

BenzyI-C12-16-alkyldimethylammonium chloride (CAS 68424-85-1)

Switzerland - Biocides - Annex II -
Active Substances - Minimum
Purity
Switzerland - Biocides - Annex II -
Active Substances - Product Type
940 g/kg Sunset Date: 01/31/2025 (dry weight)
972 g/kg Sunset Date: 10/31/2032 (dry weight)
972 g/kg Sunset Date: 06/30/2034 (dry weight)
Product Type: 1
Product Type: 3
Product Type: 4
Product Type: 8

EU - Cosmetics (1223/2009) - Annex III - Field of Application and/or Use	Rinse-off hair [head] products (listed under Benzalkonium chloride)
EU - Cosmetics (1223/2009) - Annex III - Maximum Authorised Concentration	3 % MAC (rinse-off hair [head] products, as Benzalkonium chloride, listed under Benzalkonium chloride)
EU - Cosmetics (1223/2009) - Annex III - Other Limitations and Requirements	In the final products the concentrations of Benzalkonium chloride, bromide and saccharinate with an alkyl chain of C14 or less must not exceed 0.1% (as Benzalkonium chloride) For purposes other than inhibiting the development of micro-organisms in the product. This purpose has to be apparent from the presentation of the product Avoid contact with the eyes
EU - Cosmetics (1223/2009) - Annex V - Preservatives - Conditions of Use and Warnings	
EU - Cosmetics (1223/2009) - Annex V - Preservatives - Maximum Authorised Concentration	0.1 % MAC (as Benzalkonium chloride, listed under Benzalkonium chloride)
EU - Biocides (1062/2014) - Annex II Part 1 - Supported Substances	671 Product type 1, 2, 10, 11, 12, 22 (270-325-2)
EU - Biocides (2007/565/EC) - Substances and Product-Types Not to Be Included in Annexes I, IA and IB to Directive 98/8/EC	Product type: 7 Product type: 9
EU - Biocides (528/2012/EU) - Active Substances	8 - Wood preservatives (Commission Implementing Decision 2017/2334/EU Commission Implementing Regulation 2023/688/EU) 4 - Food and feed area disinfectant (Commission Implementing Regulation 2021/1063/EU) 3 - Veterinary hygiene (Commission Implementing Regulation 2021/1063/EU)
EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates	Expiration date: January 31, 2025 Product type 8 (important details in Commission Directive 2013/7/EU, listed under EC Number 270-325-2)
EU - Biocides (98/8/EC) - Annex I - Active Substances - Minimum Purity	940 g/kg 8 (dry weight, important details in Commission Directive 2013/7/EU, listed under EC Number 270-325-2)
EU - Biocides (98/8/EC) - Annex I - Active Substances - Product Type	Product type 8 (details in Commission Directive 2013/7/EU and Commission Implementing Decision 2017/2334/EU, listed under EC Number 270-325-2)

EU - Biocides (98/8/EC) - Annex I - Active Substances - Specific Provisions	Member States shall ensure that authorisations are subject to the following conditions: 1. For industrial or professional users safe operational procedures shall be established, and products shall be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks can be reduced to an acceptable level by other means. 2. Products shall not be used for treatment of wood with which children may enter in direct contact, unless it can be demonstrated in the application for product authorisation that risks can be reduced to an acceptable level. 3. Labels and, where provided, safety data sheets of products authorised shall indicate that industrial or professional application shall be conducted within a contained area or on impermeable hard standing with bonding, and that freshly treated timber shall be stored after treatment on impermeable hard standing to prevent direct losses to soil or water, and that any losses from the application of the product shall be collected for reuse or disposal. 4. Products shall not be authorised for treatment of wood that will be in contact with fresh water or used for outdoor constructions near or above water, continually exposed to the weather or subject to frequent wetting, unless data is submitted to demonstrate that the product will meet the requirements of Article 5 and Annex VI, if necessary by the application of appropriate mitigation measures (important details in Commission Directive 2013/7/EU, listed under EC Number 270-325-2)
EU - REACH (1907/2006) - List of Registered Substances Germany - Water Classification - Substances According to AwSV Classified By or Based on the VwVwS	Present Reg. no. 599, hazard class 2 - obviously hazardous to water
Didecyldimethylammonium chloride (CAS 7173-51-5)	Present
TEDX (The Endocrine Disruption Exchange) - Potential Endocrine Disruptors	Present
Switzerland - Biocides - Annex II - Active Substances - Minimum Purity	870 g/kg Sunset Date: 01/31/2025 (dry weight) 908 g/kg Sunset Date: 10/31/2032 (dry weight) 908 g/kg Sunset Date: 01/31/2034 (dry weight)
Switzerland - Biocides - Annex II - Active Substances - Product Type	Product Type: 1 Product Type: 2 Product Type: 3 Product Type: 4 Product Type: 8
EU - Export and Import Restrictions (649/2012) - Chemicals Subject to Export Notification Procedure	Banned as a pesticide in the group of plant protection products
EU - Biocides (1062/2014) - Annex II Part 1 - Supported Substances	397 Product type 1, 2, 6, 10, 11, 12 (230-525-2)
EU - Biocides (2007/565/EC) - Substances and Product-Types Not to Be Included in Annexes I, IA and IB to Directive 98/8/EC	Product type: 7 Product type: 9
EU - Biocides (528/2012/EU) - Active Substances	8 - Wood preservatives (Commission Directive 2013/4/EU Commission Implementing Decision 2017/2334/EU) 3 - Veterinary hygiene (Commission Implementing Regulation 2021/1045/EU)
EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates	Expiration date: January 31, 2025 Product type 8
EU - Biocides (98/8/EC) - Annex I - Active Substances - Minimum Purity	870 g/kg 8 (dry weight)

EU - Biocides (98/8/EC) - Annex I - Active Substances - Product Type	Product type 8 (details in Commission Implementing Decision 2017/2334/EU)
EU - Biocides (98/8/EC) - Annex I - Active Substances - Specific Provisions	Member States shall ensure that authorisations are subject to the following conditions: 1. For industrial or professional users safe operational procedures shall be established, and products shall be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks can be reduced to an acceptable level by other means. 2. Products shall not be used for treatment of wood with which children may enter in direct contact, unless it can be demonstrated in the application for product authorisation that risks can be reduced to an acceptable level. 3. Labels and, where provided, safety data sheets of products authorised shall indicate that industrial or professional application shall be conducted within a contained area or on impermeable hard standing with bonding, and that freshly treated timber shall be stored after treatment on impermeable hard standing to prevent direct losses to soil or water, and that any losses from the application of the product shall be collected for reuse 4. Products shall not be authorised for treatment of wood that will be in contact with fresh water or used for outdoor constructions near or above water, continually exposed to the weather or subject to frequent wetting, unless data is submitted to demonstrate that the product will meet the requirements of Article 5 and Annex VI, if necessary by the application of appropriate mitigation measures (important details in Commission Directive 2013/4/EU)
EU - Plant Protection Products (1107/2009/EC) - Active Substances Not Included in the Annex to Regulation 540/2011/EC	Not included in Annex I to Directive 540/2011/EC (updated details in Commission Implementing Regulation 175/2013/EU)
EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	Use restricted. See entry 75.
EU - REACH (1907/2006) - List of Registered Substances	Present
C12-14-Alkyl[(ethylphenyl)methyl]dimethylammonium chloride (CAS 85409-23-0)	
EU - Biocides (1062/2014) - Annex II Part 1 - Supported Substances	725 Product type 1, 2, 3, 4, 10, 11, 12, 22 (287-090-7)
EU - Biocides (2007/565/EC) - Substances and Product-Types Not to Be Included in Annexes I, IA and IB to Directive 98/8/EC	Product type: 9 Product type: 17
EU - REACH (1907/2006) - List of Registered Substances	Present
Dimethyl ether (CAS 115-10-6)	
Switzerland - Air Pollution Control - Organic Substances - Gases, Vapors or Particulates	Category Class 3
Switzerland - Volatile Organic Compounds (VOCs) - Group I	2909.1990 (only this specific substance is subject to VOC duty)
Switzerland - Water Protection Ordinance - Water Polluting Liquids Classification	B
EU - REACH (1907/2006) - List of Registered Substances	Present
Germany - Water Classification - Substances According to AwSV Classified By or Based on the VwVwS	Reg. no. 714, hazard class 1 - slightly hazardous to water

UN (United Nations) - Selected
Volatile Substances Prone to
Abuse Present

**15.2. Chemical safety
assessment** Not required.

SECTION 16: Other information

**Key or legend to abbreviations
and acronyms** CLP: Classification according to Regulation (EC) No. 1272/2008
(GHS)

**Key literature references and
sources for data** For further explanations such as measurement methods and
notations, please consult SUVA Limit Values at the Workplace,
document 1903 of SUVA.

**Full text of phrases referred to
under sections 2 and 3** H220: Extremely flammable gas.
H223: Flammable aerosol.
H225: Highly flammable liquid and vapour.
H229: Pressurised container: May burst if heated.
H280: Contains gas under pressure; may explode if heated.
H301: Toxic if swallowed.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
H400: Very toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

Further information Take notice of the directions of use on the label.

Disclaimer The information provided in this Safety Data Sheet is correct to the
best of our knowledge, information and belief at the date of its
publication. The information given is designed only as a guidance
for safe handling, use, processing, storage, transportation, disposal
and release and is not to be considered a warranty or quality
specification. The information relates only to the specific material
designated and may not be valid for such material used in
combination with any other materials or in any process, unless
specified in the text.