

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 as amended

CHEMDEZ 1

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Date of completion:

24/04/2025

Date of revision: 04/11/2025

Version: 1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: disinfectant for cattle hooves "ChemDez 1"

Formula number: FN00220251114

UFI: M500-F0XT-V005-T4YF

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

Identified uses:

Veterinary biocidal product (product type 3). Concentrated liquid disinfectant for cattle hooves. For professional users only. For use on livestock only.

Not recommended uses:

Do not use outside the specified uses.

1.3 Details of the supplier of the safety data sheet

Manufacturer UAB "Ekochemeta", Pirkliu str. 12, LT-02300 Vilnius, Lithuania

Tel.: +37069982488

Email address of the competent person responsible for the safety data sheet

dobnina57@gmail.com

1.4 Emergency telephone number

Pharmacovigilance and Poisons Information Unit Lithuania: tel. +370 5 236 2052 (24/7),
<https://vvkt.lrv.lt>

General emergency number 112 (24/7).

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification of the substance or mixture according to Regulation (EC) No 1272/2008 (CLP):

Flam. Liq. 3, H226

Acute Tox. 4, H302

Skin Corr. 1, H314

Eye Dam. 1, H318

Aquatic Acute 1, H400

Aquatic Chronic 2, H411

The full text of each classification and H statement can be found in Section 16.

2.2. Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 (CLP)

Hazard pictogram(s):



GHS02



GHS05



GHS07



GHS09

Signal word:

Danger

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Hazard statement:	Hazardous ingredients: didecyldimethylammonium chloride (DDAC), glycolic acid, alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18)), copper sulphate pentahydrate. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.
Supplemental hazard information:	EUH071 Corrosive to the respiratory tract.
Precautionary statements – general:	-
Precautionary statement – prevention:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe vapours. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement – response:	P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. P391 Collect spillage.
Precautionary statement – storage:	P403 + P235 Store in a well-ventilated place. Keep cool.
Precautionary statement – disposal:	P501 Dispose of contents/container in accordance with national regulation.
Supplemental label elements:	-

2.3. Other hazards

Results of PBT, vPvB and ED assessment:

The mixture does not contain substances that:

- meet the PBT or vPvB criteria set out in Annex XIII to Regulation (EC) No 1907/2006;
- listed in accordance with Article 59(1) because of their endocrine disrupting properties;

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- identified as having endocrine disrupting properties in accordance with Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1% by weight.

Health risks:

No other hazards have been identified.

Environmental hazards:

No other hazards have been identified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Identifiers	Mass, %	Name of the chemical substance	Classification according to Regulation (EC) No 1278/2008 (CLP), specific concentration limits, ATE and M-factors	Type
CAS No 7173-51-5 EC No 230-525-2 Index No 612-131-00-6	≤ 24,5	Didecyldimethylammonium chloride (DDAC)	Acute Tox. 3, H301 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411 ATE (ingestion, rat): 238 mg/kg	[1]
CAS No 67-63-0 EC No 200-661-7 Index No 603-117-00-0 REACH reg. No 01-2119457558-25-XXXX	9,8 - <14,7	Propan-2-ol; isopropyl alcohol; isopropanol	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1], [2]
CAS No 79-14-1 EC No 201-180-5 REACH reg. No. 01-2119485579-17-XXXX	≤ 14,0	Glycolic acid	Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 4, H332 EUH071 ATE (inhalation, dust/mist): 3,6 mg/l	[1]
CAS No 68391-01-5 EC No 269-919-4	≤ 12,5	Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18))	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) ATE (ingestion, rat): 397,5 mg/kg body weight	[1]
CAS No 7758-99-8 EC No 231-847-6 Index No 029-023-00-4 REACH reg. No 01-2119520566-40-XXXX	≤ 1,0	Copper sulphate pentahydrate	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) ATE (ingestion) = 481 mg/kg body weight	[1], [2]
CAS No 64-17-5 EC No 200-578-6 Index No 603-002-00-5	0,25 - <0,75	Ethanol	Flam Liq. 2, H225 Eye Irrit. 2, H319	[1], [2]

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REACH reg. No. 01-2119457610-43-XXXX			<u>Specific concentration limits:</u> Eye Irrit. 2, H319: $C \geq 50\%$	
CAS No 64-18-6 EC No 200-579-1 Index No 607-001-00-0	<0,2	Formic acid	Flam. Liq. 3; H226 Met. Corr. 1, H290 Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 Acute Tox. 3; H331 EUH071 <u>Specific concentration limits:</u> Eye Dam. 1; H318: $C \geq 10\%$ Skin Irrit. 2; H314: $2\% \leq C < 10\%$ Skin Corr. 1A; H314: $C \geq 90\%$ Skin Corr. 1B; H314: $10\% \leq C < 90\%$ Flam. Liq. 3; H226: $C > 85\%$ Eye Irrit. 2; H318: $2\% \leq C < 10\%$ EUH071: $C \geq 10\%$ ATE (inhalation, vapours) = 7.4 mg/L ATE (ingestion) = 500 mg/kg body weight	[1], [2]
CAS No 50-00-0 EC No 200-001-8 Index No 605-001-00-5	<0,012	Formaldehyde	Flam. Gas 1B; H221 Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Muta. 2; H341 Carc. 1B; H350 STOT SE 3; H335 EUH071 <u>Specific concentration limits:</u> Skin Corr. 1B; H314 $\geq 25\%$ Skin Irrit. 2; H315 $5 - < 25\%$ Eye Irrit. 2; H319 $5 - < 25\%$ STOT SE 3; H335 $\geq 5\%$ Skin Sens. 1A; H317 $\geq 0,2\%$ ATE (ingestion): 100 mg/kg ATE (inhalation, gases): 100 ppmV ATE (dermal): 270 mg/kg	[1], [2]

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There are no additional ingredients in the formulation which, to the best of the suppliers' knowledge and taking into account the actual concentrations, would be classified as hazardous to health or the environment and should therefore be listed in this section.

The full text of the above H statements can be found in Section 16.

Occupational limit values, if established, are specified in Section 8.

Type:

[1] The substance is classified as hazardous to health or the environment.

[2] Substance subject to restrictions on workplace exposure.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General: in all cases of doubt or signs of impairment, seek medical advice immediately. If the victim has lost consciousness, do not give anything to drink or put anything in the mouth. In case of suspected or diagnosed poisoning with this product, contact the POISON CENTRE immediately or consult a doctor and show this Safety Data Sheet.

Inhalation: move victim to fresh air and keep at rest in a position comfortable for breathing. If the victim feels unwell, call the POISON CENTRE or seek medical attention immediately.

In case of contact with skin: take off all contaminated clothing. Wash skin that have been splashed with liquid with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Contact the POISON CENTRE immediately or seek medical advice.

In case of contact with eyes: flush eyes well with water, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Contact the POISON CENTRE or seek medical attention immediately.

If swallowed: rinse mouth thoroughly with water, do not induce VOMITTING. If the victim has lost consciousness, do not give anything to drink. Contact the POISON CENTRE immediately or seek medical attention.

First aiders protective equipment: personal protective equipment is recommended. Do not take any action that poses any personal risk and unless properly trained.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation: may corrode/irritate the respiratory tract. Adverse symptoms may include the following: respiratory tract corrosion/irritation.

In contact with skin: causes severe skin burns. Adverse symptoms may include the following: skin corrosion, pain, irritation, redness.

In case of contact with eyes: causes serious eye damage. Adverse symptoms may include the following: eye damage, pain, tearing, redness.

After ingestion: gastrointestinal corrosion. Adverse symptoms may include the following: stomach pain, wounds, nausea, headache.

4.3. Indication of any immediate medical attention and special treatment needed

Special treatment: treatment is symptomatic.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

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Suitable extinguishing media: carbon dioxide, dry extinguishing powder, water mist, alcohol resistant foam.

Unsuitable extinguishing media: do not use water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: carbon oxides.

5.3. Advice for firefighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469:2020 (*Protective clothing for firefighters. Performance requirements for protective clothing for firefighting activities*) will provide a basic level of protection for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency workers: do not take any action that poses any personal risk and unless the person has received appropriate training. Evacuate people from adjacent areas. Keep out unauthorised persons and persons without protective equipment. Do not touch or walk over spilled material. In the event of a spillage, stop all work. Leave the scene as soon as possible, avoiding any contact with the spilled product. Use appropriate personal protective equipment.

6.1.2. for emergency responders: if special clothing is required for work at the scene of the emergency, refer to Section 8 for information on suitable and unsuitable materials. Also familiarise yourself with the information on hygiene measures in Section 8.

6.2. Environmental precautions

Take all possible measures to prevent spillages from reaching soil, water bodies and drains.

6.3. Methods and material for containment and cleaning up

Cover the spillage with a suitable (non-combustible) absorbent material such as sand or earth and pour it into a sealed container. Dispose of as specified in Section 13. Wash spillages with water and wipe well. In the event of large spillages, notify the fire brigade and other competent authorities.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Protective measures:

Use appropriate personal protective equipment (see Section 8).

General occupational hygiene measures:

Use strictly in accordance with the label and instructions for use. Avoid contact with eyes, skin and clothing. Avoid inhalation of vapours. Keep tightly closed when not in use. Never use concentrate, always dilute according to dosage recommendations. Do not eat, drink or smoke in work areas. Wash hands after use. Wash soiled clothing. Wear protective gloves / protective clothing / eyes (face)

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protection. Keep out of the environment. Refer to Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in the original, tightly sealed packaging in a well-ventilated place at temperatures above 10 °C. Keep away from foodstuffs, feed and drinking water. Do not freeze.

7.3. Specific end-use(s)

Recommendations:

Veterinary biocidal product (product type 3). Concentrated liquid disinfectant for cattle hooves. For professional users only. For use on livestock only.

Industry-specific solutions:

No information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Although the limit values apply throughout the EU, each EU country also sets its own national occupational exposure limit values, often adopting stricter requirements than those laid down in EU legislation. Occupational exposure limit values are set by the competent national authorities or other relevant bodies.

Lithuania (HN 23:2011)

Name of the chemical substance	Long-term exposure limit		Short-term exposure limit		Non-exceedance limit value	
	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm
Propan-2-ol	350	150	600	250	-	-
Copper and its inorganic compounds (as Cu)						
-inspirational fraction	1	-	-	-	-	-
-alveolar fraction	0,2	-	-	-	-	-
Ethanol	1000	500	1900	1000	-	-
Formic acid	9	5	-	-	-	-
Formaldehyde [acute, sensitising, carcinogenic]	0,6	0,5	-	-	1,2	1

Recommended monitoring procedures:

The following monitoring standards shall be taken into account: European and Lithuanian standard LST EN 689:2001 (Workplace air. Guidance and measurement strategy for the assessment of exposure to inhaled chemicals compared to limit values); European and Lithuanian standard LST EN 14042:2004 (Workplace air. Guidance on the application and use of methodologies for the assessment of exposure to chemical and biological agents); European and Lithuanian standard LST EN 482:2012/2013 (Exposure at work. General requirements for the characteristics of measurement procedures for chemical agents). National legislation defining methods for the identification of hazardous substances must also be taken into account.

Derived no-effect limit value (DNEL):

Chemical name	User	Type of exposure	Potential health effects	Value
Propan-2-ol	Workers	Inhalation	Long-term, systemic	500 mg/m ³
		Dermal		888 mg/kg bw/day

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	Users	Inhalation		89 mg/m³
		Dermal		319 mg/kg bw/day
		Oral		26 mg/kg bw/day
Glycolic acid	Workers	Inhalation	long-term, systemic	10,56 mg/m³
			short-term, systemic	9,2 mg/m³
			long-term, local	1,53 mg/m³
			short-term, local	9,2 mg/m³
		Dermal	long-term, systemic	57,69 mg/kg bw/day
	Users	Inhalation	long-term, systemic	2,6 mg/m³
			short-term, systemic	2,3 mg/m³
			short-term, local	2,3 mg/m³
		Dermal	long-term, systemic	28,85 mg/kg bw/day
Oral	long-term, systemic	750 µg/kg body weight/day		
Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18))	Workers	Inhalation	Long-term, systemic	3,96 mg/m³
		Dermal		5,7 mg/kg body weight/day
	Users	Inhalation		1,64 mg/m³
		Dermal		3,4 body weight/day
		Oral		3,4 body weight/day
Copper sulphate pentahydrate	Workers	Inhalation	Long-term, local	1 mg/m³
		Dermal	long-term, systemic	
	Users	Oral	short-term, systemic	82 µg/kg bw/day
			long-term, systemic	41 µg/kg bw/day
Ethanol	Workers	Inhalation	Long-term, systemic	950 mg/m³
		Dermal		343 mg/kg bw/day
	Users	Inhalation		114 mg/m³
		Dermal		87 mg/kg bw/day
		Oral		206 mg/kg bw/day
Formic acid	Workers	Inhalation	Short-term, local	19 mg/m³
			Long-term, systemic	9,5 mg/m³
	Users	Inhalation	Short-term, local	9,5 mg/m³
			Long-term, systemic	3 mg/m³
Formaldehyde	Workers	Inhalation	Long-term, systemic	9 mg/m³
			Long-term, local	0,375 mg/m³
			Short-term, local	0,75 mg/m³
		Dermal	Long-term, systemic	240 mg.kg body weight/day
			Long-term, local	0,037 mg/cm²
	Users	Inhalation	Long-term, systemic	3,2 mg/m³
			Long-term, local	0,1 mg/m³
		Oral	Long-term, systemic	4,1 mg/kg body weight/day
		Dermal	Long-term, systemic	102 mg/kg bw/day
	Long-term, local	0,012 mg/cm²		

Predicted no-effect concentration (PNEC):

Chemical name	Hazard for aquatic organisms/air/terrestrial organisms/predators	Value
Propan-2-ol	Fresh water	140,9 mg/l
	Fresh water (intermittent releases)	140,9 mg/l
	Marine water	140,9 mg/l
	Marine water (intermittent releases)	No data available
	Sewage treatment plant (STP)	2251 mg/l
	Sediment (fresh water)	552 mg/kg
	Sediment (marine water)	552 mg/kg
	Air	No data available

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	Soil	28 mg/kg
	Secondary poisoning	160 mg/kg
Glycolic acid	Fresh water	0,0312 mg/l
	Fresh water (intermittent releases)	0,312 mg/l
	Marine water	0,0031 mg/l
	Marine water (intermittent releases)	No data available
	Sewage treatment plant (STP)	2,67 mg/l
	Sediment (fresh water)	No data available
	Sediment (marine water)	0,0115 mg/kg dry weight of sediment
	Air	No data available
	Soil	0,007 mg/kg dry weight of soil
	Secondary poisoning	16,66 mg/kg food
Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18))	Fresh water	420 ng/l
	Fresh water (intermittent releases)	0,00016 mg/l
	Marine water	0,00096 mg/l
	Marine water (intermittent releases)	0,0009 mg/l
	Sewage treatment plant (STP)	0,4 mg/l
	Sediment (fresh water)	12,27 mg/kg dry weight of sediment
	Sediment (marine water)	13,09 mg/kg dry weight of sediment
	Air	No risk identified.
	Soil	7 mg/kg dry weight of soil
	Secondary poisoning	No potential for bioaccumulation.
Copper sulphate pentahydrate	Fresh water	7,8 µg/l
	Fresh water (intermittent releases)	No data
	Marine water	5,2 µg/l
	Marine water (intermittent releases)	No data
	Sewage treatment plant (STP)	230 µg/l
	Sediment (fresh water)	87 mg/kg dry weight of sediment
	Sediment (marine water)	676 mg/kg dry weight of sediment
	Air	No hazard identified
	Soil	65 mg/kg dry weight of soil
	Secondary poisoning	No potential for bioaccumulation.
Ethanol	Fresh water	960 µg/l
	Fresh water (intermittent releases)	2,75 mg/l
	Marine water	0,79 mg/l
	Marine water (intermittent releases)	No data available
	Sewage treatment plant (STP)	580 mg/l
	Sediment (fresh water)	3,6 mg/l sediment dry weight
	Sediment (marine water)	2,9 mg/l sediment dry weight
	Air	No risk identified
	Soil	0,63 mg/kg dry weight of soil
	Secondary poisoning	0,38 g/kg food
Formic acid	Fresh water	2 mg/l
	Fresh water (intermittent releases)	0,2 mg/l
	Marine water	1 mg/l
	Marine water (intermittent releases)	No data available
	Sewage treatment plant (STP)	7,2 mg/lg
	Sediment (fresh water)	13,4 mg/kg dry weight of sediment
	Sediment (marine water)	1,34 mg/kg dry weight of sediment
	Air	No data available
	Soil	1,5 mg/l dry weight of soil
	Secondary poisoning	No data available
Formaldehyde	Fresh water	0,44 mg/l
	Fresh water (intermittent releases)	4,44 mg/l
	Marine water	0,44 mg/l
	Marine water (intermittent releases)	No data available

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	Sewage treatment plant (STP)	0,19 mg/l
	Sediment (fresh water)	2,3 mg/kg dry weight of sediment
	Sediment (marine water)	2,3 mg/kg dry weight of sediment
	Air	No data available
	Soil	0,2 mg/kg dry weight of soil
	Secondary poisoning	No data available

8.2. Exposure controls

8.2.1. Appropriate technical management measures:

Ensure good ventilation, avoid spills. If there is a strong smell, this indicates that the concentration of hazardous substances in the air exceeds the limit values.

8.2.2 Personal protective equipment:

Hygiene products:

No eating, smoking or drinking in the workplace. Wash hands, forearms and face thoroughly after using chemicals, before eating, smoking, using the toilet and after a work shift. Wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are located close to work areas.

Eye/face protection:

Safety goggles with side shields, face shields, tested and approved to EN 166, EN ISO 4007.

Hand and skin protection:

Chemical-resistant, impermeable gloves complying with EN ISO 21420 and EN ISO 374-1. It is necessary to assess the glove manufacturer's permeation time and to change the gloves in time

Other skin protective equipment (work clothes, footwear, etc.):

Workwear complying with EN ISO 6529, EN ISO 6530, EN ISO 13688, EN 464.

Non-slip work footwear according to EN ISO 20347 is recommended. It is recommended to wear non-slip work footwear conforming to EN ISO 20345 and EN 13832-1 when in contact with the product for prolonged periods.

Respiratory protection:

Particulate protection mask (filter type A) in accordance with EN 149, EN 405. Replace the mask when breathing capacity is impaired.

Thermal hazards:

no data.

8.2.3. Environmental exposure controls

In accordance with Community environmental legislation, it is recommended not to spill the product into the environment and not to dispose of its containers. Avoid spillage, leakage into drains, watercourses and on soil.

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: liquid.

Colour: light green.

Odour: specific.

Melting/freezing point, °C: not determined.

Boiling point or initial boiling point and boiling range, °C: not determined.

Flammability: flammable (based on product data and literature)

Lower and upper explosion limit: not determined.

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Flash point, °C: ~41 °C (based on product data and literature)

Auto-ignition temperature: not determined.

Decomposition temperature: not determined.

pH: 0,8-1,0 (100%, 20 °C)

Kinematic viscosity: not determined.

Solubility: not determined.

Partition coefficient n-octanol/water (log value): not determined.

Vapour pressure, kPa: not determined.

Relative density, g/cm³: 0,995-1,000 (20 °C)

Relative vapour density: not determined.

Particle properties: not determined.

9.2 Other information

Information on physical hazard classes

No data.

Other safety characteristics

No data.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is stable under recommended storage conditions.

10.2. Chemical stability

The product is stable under the recommended conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

Under normal conditions of storage, transport and use, no dangerous reactions occur.

10.4. Conditions to avoid

Do not freeze. Do not heat. Keep away from heat sources, hot surfaces, sparks, naked flames or other sources of combustion.

10.5 Incompatible materials

Bases, oxidising agents, reducing agents.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not form. Depending on the conditions, complex mixtures of chemicals such as carbon dioxide (CO₂), carbon monoxide (CO) and other organic compounds may be released.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity

Harmful if swallowed.

Name of the product/ingredient	Result	Species	Dose	Note
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Disinfectant for cattle hooves "ChemDez 1"	ATE _{mix} (ingestion)=732,79 mg/kg bw Fraction (inhalation, Category 3)=0,29 Fraction (inhalation, Category 4)=0,47			
Didecyltrimethylammonium chloride (DDAC)	LD50 (ingestion) LD50 (dermal)	Rat Rabbit	238 mg/kg 3342 mg/kg	(US FIFRA 40 CFR) (EPA Guideline 81-2)
Propan-2-ol	LC50 (inhalation) LD50 (ingestion) LD50 (dermal)	Rat Rat Rabbit	25000 mg/m ³ 5840 mg/kg 13900 mg/kg	(OECD 403) (OECD 401) (OECD 402)
Glycolic acid	LD50 (ingestion) LC50 (inhalation)	Rat Rat	2040 mg/kg bw 3,6 mg/l (dust/mist, 4 h)	(EPA OPP 81-1) -
Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18))	LD50 (ingestion)	Rat	397,5 mg/kg bw	(OECD 401)
Copper sulphate pentahydrate	LD50 (ingestion)	Rat	481 mg/kg	Based on harmonised classification in EU regulation 1272/2008, Annex VI
	LD50 (dermal)	Rat	2000 mg/kg	(OECD 402)
Ethanol	LC50 (inhalation)	Rat	124,7 mg/l	(OECD 403)
	LD50 (ingestion)	Rat	vapour	(OECD 401)
	LD50 (dermal)	Rat	10470 mg/kg > 15800 mg/kg	-
Formic acid	LD50 (ingestion)	Rat	730 mg/kg	(OECD 401)
	LC50 (inhalation)	Rat	7,4 mg/l (4 hours, vapours)	-
	LD50 (dermal)	Rat	> 2000 mg/kg	-
Formaldehyde	LD50 (ingestion)	Rat	100 mg/kg	-
	LC50 (inhalation)	Rat	100 ppmV (4 hours, gases)	-
	LD50 (dermal)	Rabbit	270 mg/kg	-

Skin corrosion/irritation:

Causes severe skin burns.

Chemical name	Result
Didecyltrimethylammonium chloride (DDAC)	Severely burns the skin and damages the eyes.
Glycolic acid	Skin - rabbit Result: (exposure: 3 minutes to 1 hour) (OECD Test Guideline 404)
Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18))	Severely burns the skin and damages the eyes.

Serious eye damage/irritation:

Causes serious eye damage.

Chemical name	Result
Didecyltrimethylammonium chloride (DDAC)	Causes serious eye damage.
Propan-2-ol	Causes eye irritation.
Glycolic acid	Eyes - rabbit

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	Result: irreversible effects on the eyes (OECD Test Guideline 405)
Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18))	Causes serious eye damage.
Copper sulphate pentahydrate	Causes serious eye damage.

Respiratory or skin sensitisation:

According to the available data, the classification criteria are not met.

Germ cell mutagenicity:

According to the available data, the classification criteria are not met.

Carcinogenicity:

According to the available data, the classification criteria are not met.

Reproductive toxicity

According to the available data, the classification criteria are not met.

STOT-single exposure:

Corrosive to the respiratory tract.

STOT-repeated exposure:

According to the available data, the classification criteria are not met.

Aspiration hazard:

According to the available data, the classification criteria are not met.

Information on likely routes of exposure:

Inhalation: may corrode/irritate the respiratory tract.

In contact with skin: causes severe skin burns.

In case of contact with eyes: causes serious eye damage.

After ingestion: gastrointestinal corrosion.

Symptoms related to physical, chemical and toxic properties:

Inhalation: adverse symptoms may include the following: respiratory tract corrosion/irritation.

In case of skin contact: adverse symptoms may include the following: skin burns, pain, irritation, redness.

In case of contact with the eye: adverse symptoms may include the following: eye damage, pain, tearing, redness.

Ingestion: adverse symptoms may include the following: stomach pain, wounds, nausea, headache.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Short-term contact:

Potential acute effects: no data available.

Potential chronic effects: no data available.

Long-term contact:

Potential acute effects: no data available.

Potential chronic effects: no data available.

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Interactive effects:

Conclusions/summary: no data.

Overall impact: no known significant effects or critical risks.

Carcinogenicity: no known significant effects or critical hazards.

Mutagenicity: no known significant effects or critical hazards.

Teratogenicity: no known significant effects or critical risks.

Developmental effects: no known significant effects or critical risks.

Effects on fertility: no known significant effects or critical risks.

11.2. Information on other hazards

Endocrine disruptors

The product does not meet the criteria for endocrine disrupting properties.

Other information

No data.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Based on the available data, the mixture is classified as:

Hazardous to the aquatic environment — Acute Hazard, Category 1. Very toxic to aquatic life.

Hazardous to the aquatic environment — Chronic Hazard, Category 2. Toxic to aquatic life with long lasting effects.

Acute toxicity of ingredients:

Name of the product/ingredient	Result
Didecyldimethylammonium chloride (DDAC)	Toxicity to aquatic algae: EC50 <i>Pseudokirchneriella subcapitata</i> (96 h) 0,026 mg/l Toxicity to daphnia and other aquatic invertebrates: NOEC <i>Daphnia magna</i> (21 day) 0,014 mg/l EC50 <i>Daphnia magna</i> (48 h) 0,062 mg/l Toxicity to fish: NOEC <i>Danio rerio</i> (32 days) 0,032 mg/l LC50 <i>Pimephales promelas</i> (96 h) 9640 - 10000 mg/l
Propan-2-ol	Toxicity to aquatic algae: NOEC <i>Scenedesmus quadricauda</i> (7 days) 1800 mg/l Toxicity to daphnia and other aquatic invertebrates: LC50 <i>Daphnia magna</i> (24 h) 10000 mg/l Toxicity to fish: LC50 <i>Pimephales promelas</i> (96 h) 9640 - 10000 mg/l
Glycolic acid	Toxicity to fish: LC50 <i>Pimephales promelas</i> (96 hours) 114,8 mg/l Toxicity to daphnia and other aquatic invertebrates: EC50 <i>Daphnia magna</i> (48 hours) 99,6 mg/l Toxicity to aquatic algae: ErC50 <i>Pseudokirchneriella subcapitata</i> (72 hours) 31,2 mg/l
Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18))	Toxicity to aquatic algae: EC10 <i>Pseudokirchnerella subcapitata</i> (72 hours) 0,009 mg/l EC50 (96 h) 0,03 mg/l Toxicity to aquatic invertebrates: NOEC <i>Daphnia magna</i> (21 d) 0,025 mg/l EC50 <i>Daphnia magna</i> (48 hours) 0,016 mg/l Toxicity to fish: NOEC <i>Pimephales promelas</i> (28 days) > 32,2 µg/l

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	LC50 <i>Pimephales promelas</i> (96 hours) 0,28 mg/l
Copper sulphate pentahydrate	Acute toxicity to fish: CL50 <i>Cyprinus carpio</i> (96 hours) 0,81 mg/l
Ethanol	Toxicity to aquatic algae: EC10 <i>Chorella vulgaris</i> (72 hours) 11,5 mg/l EC50 <i>Chorella vulgaris</i> (72 hours) 275 mg/l Toxicity to fish: NOEC <i>Danio rerio</i> (120 hours) 250 mg/l LC50 <i>Onocorhynchus mykiss</i> (24 hours) 11200 mg/l Toxicity to aquatic invertebrates: LC50 <i>Ceriodaphnia dubia</i> (48 hours) 5012 mg/l NOEC <i>Ceriodaphnia dubia</i> (10 d) 9,6 mg/l
Formic acid	Toxicity to fish: LC50 <i>Pimephales promelas</i> (96 hours) 130 mg/l Toxicity to daphnia and other aquatic invertebrates: EC50 <i>Daphnia magna</i> (48 hours) 365 mg/l Toxicity to aquatic algae: ErC50 <i>Pseudokirchneriella subcapitata</i> (72 hours) 1,240 mg/l Toxicity to microorganisms: NOEC (13 days) 72 mg/l
Formaldehyde	Toxicity to fish: LC50 <i>Morone saxatilis</i> (96 h) 6,7 mg/l Toxicity to daphnia and other aquatic invertebrates: EC50 <i>Daphnia pulex</i> (48 hours) 5,8 mg/l Toxicity to aquatic algae: ErC50 <i>Desmodesmus subspicatus</i> (72 hours) 4,89 mg/l Toxicity to microorganisms: NOEC (3 hours) 19 mg/l

12.2. Persistence and degradability

Persistence and degradability of ingredients:

Name of the substance	Result
Didecyldimethylammonium chloride (DDAC)	67 - 72 % (OECD 301 B) Test duration: 28 days 78,1 – 85,6 % (US EPA OTS 796.3100) Test duration: 28 days Biodegradable.
Propan-2-ol	53 % (EU Methods C.5 & C.6) Test duration: 5 days 84 % (OECD 301 D) Test duration: 28 days Biodegradable.
Glycolic acid	Biodegradable.
Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18))	82,6 – 99,5 % (EBPO 301 B) Test duration 28 days. Biodegradable
Copper sulphate pentahydrate	Not applicable to inorganic substances.
Ethanol	74 % Test duration 5 days. Biodegradable.
Formic acid	100 % Test duration 28 days. Biodegradable.
Formaldehyde	99 % Test duration 28 days. Biodegradable.

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12.3. Bioaccumulation potential

Bioaccumulation potential of ingredients:

Name of the substance	Result
Didecyltrimethylammonium chloride (DDAC)	Bioaccumulation potential is expected to be low. Log Kow: -0,41 (20°C) BCF: 81 (US EPA 165-4)
Propan-2-ol	Bioaccumulation potential is expected to be low.
Glycolic acid	No data available.
Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18))	BCF: 79 Bioaccumulation unlikely.
Copper sulphate pentahydrate	Undefined.
Ethanol	BCF: 1-4,5 (5 mg/l)
Formic acid	Log Pow: -0,68
Formaldehyde	Log Pow: 0,35

12.4. Mobility in soil

Mobility of ingredients in soil:

Name of the substance	Result
Didecyltrimethylammonium chloride (DDAC)	Log Koc 5,75
Propan-2-ol	No data available.
Glycolic acid	No data available.
Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18))	Log Koc 6,2
Copper sulphate pentahydrate	No data available.
Ethanol	Log Koc $\leq$ 0,342
Formic acid	No data available.
Formaldehyde	No data available.

12.5. Results of PBT and vPvB assessment

The product and its constituents do not meet the criteria for PBT or vPvB assessment in accordance with the requirements of Annex XIII to Regulation (EC) No 1907/2006.

12.6. Endocrine disruptors

The mixture does not contain substances that:

- listed in accordance with Article 59(1) because of their endocrine disrupting properties;
- identified as having endocrine disrupting properties in accordance with Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1% by weight.

12.7. Other adverse effects

There are no other negative environmental impacts (such as ozone depletion potential, photochemical ozone depletion potential, endocrine disruption potential, global warming potential).

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product:

Waste management methods:

In accordance with Commission Regulation (EU) No 1357/2014, the waste product is classified as **HP 3** – flammable, **HP 6** – acute toxicity, **HP 8** – corrosive and **HP 14** – ecotoxic. Waste must be disposed of in accordance with federal, state and local environmental control regulations. Untreated waste must not be disposed of in the sewage system unless it is in full compliance with the requirements of the responsible authorities in the relevant jurisdiction. Biocide waste shall be handled in accordance with the requirements of the waste management regulations in companies with hazardous waste permits.

European waste catalogue (EWC):

02 01 08* - agrochemical waste containing hazardous substances.

16 03 05* - organic wastes containing hazardous substances (*end-of-life batches and unused products*)

Packaging:

Waste management methods:

Whenever possible, efforts must be made to avoid or reduce waste. Packaging waste should be recycled. Incineration and landfilling should only be considered when recycling is not feasible.

Special references:

Waste and packaging should be disposed of safely. Empty packaging that has not been cleaned or washed should be handled with care. Empty packaging and trays may contain product residues. Avoid spreading and leakage of spillages into watercourses, drainage and sewage systems.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number or ID number

UN 2920

14.2. UN proper shipping name

CORROSIVE LIQUID, FLAMMABLE, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE (DDAC), PROPAN-2-OL)

14.3. Transport hazard class(es)

8

14.4 Packaging group

II

14.5 Environmental hazards

The mixture is hazardous to the environment.

14.6 Special precautions for users

The vehicle must be equipped with the respiratory and skin protection referred to in Section 8. Packages must be tightly closed and stacked in such a way as to avoid the risk of mechanical damage.

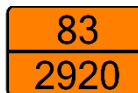
14.7. Maritime transport in bulk according to IMO instruments

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Not applicable.

Additional information:

Hazard Identification Number:



Classification code: CF1

Hazard symbols:

8 + 3 + hazardous to the environment



Tunnel restriction code: 2 (D/E)

SECTION 15: REGULATORY INFORMATION

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

- REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
- REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
- COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products.
- REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.
- REGULATION (EU) 2019/1021 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on persistent organic pollutants.
- REGULATION (EC) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.
- REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.
- DIRECTIVES DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC.
- COMMISSION DECISION of 3 May 2000 replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC

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establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste.

- COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC).
- COUNCIL DIRECTIVE 94/33/EC of 22 June 1994 on the protection of young people at work.
- DIRECTIVE 2004/37/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work (Sixth individual Directive within the meaning of Article 16(1) of Council Directive 89/391/EEC).
- The Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

Chemical Weapons Convention (CWC), Lists of Toxic Substances and Precursors:

Not applicable.

REACH Article 59 - List of highly hazardous substances requiring authorisation:

Not applicable (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH Annex XIV - List of substances subject to authorization:

Not applicable.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:

Not applicable.

Regulation (EC) No 2019/1021 on persistent organic pollutants:

Not applicable.

Regulation (EC) No 649/2012 on the export and import of dangerous chemicals:

Didecyltrimethylammonium chloride (DDAC) (CAS No. 7173-51-5)

REACH Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:

Number on list 3;

Number on list 72 (formaldehyde);

Number on list 75;

Number on list 77 (formaldehyde).

Seveso III Directive: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances:

E1 ENVIRONMENTAL HAZARDS

Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of lower-tier requirements: 100 t

Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of upper-tier requirements: 200 t

National legislation (Lithuania)

- Order No V-824/A1-389 of the Minister of Health of the Republic of Lithuania and of the Minister of Social Security and Labour of the Republic of Lithuania of 1 September 2011 "On the application of the Lithuanian Hygienic Standard HN 23:2011 "Occupational Exposure Limits to Chemicals. General requirements for measurement and exposure assessment".
- 24 July 2001. Order No 97/406 of the Minister of Social Security and Labour of the Republic of Lithuania and of the Minister of Health of the Republic of Lithuania on the Provisions on the Protection of Workers against Chemical Agents at Work and on the Provisions on the Protection of Workers against Exposure to Carcinogens and Mutagens at Work.

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- 14 July 1999. Order No 217 of the Minister of the Environment of the Republic of Lithuania on the approval of waste management rules.
- 6 February 2013. Order of the Minister of the Environment of the Republic of Lithuania No D1-109 on the approval of the description of the procedure for the submission of data to the information system "Integrated Computer System for Environmental Information Management" (IS "AIVIKS").
- 16 June 2020 Order No D1-362 of the Minister of the Environment of the Republic of Lithuania on the approval of the description of the procedure for the submission of data and information on chemical substances and chemical mixtures.
- Regulations on Authorisation and Registration of Biocides (Approved by Order of the Minister of Health of the Republic of Lithuania No. 358 of 8 July 2002, Official Gazette of the Republic of Lithuania, 2002, No. 79-3361).
- Rules for Authorisation and Registration of Biocides (Approved by Order No 421 of the Minister of Health of the Republic of Lithuania of 14 August 2002, Žin., 2002, No 87-3760).
- Order of the Minister of Health of the Republic of Lithuania No 421 of 14 August 2002 "On the approval of the rules for the authorisation of biocidal products".

15.2 Chemical safety assessment

No chemical safety assessment has been carried out - not applicable to the mixture.

SECTION 16: OTHER INFORMATION

Date of creation of the safety data sheet: 24/04/2025

Date of revision of the safety data sheet: 04/11/2025

Version No. 3

Explanation of changes: the formula number and UFI code have been updated (Section 1). The composition of the mixture have been changed. The information regarding the components in the mixture has been accordingly revised in Sections 3–12.

Explanatory notes on abbreviations and numerical characters (referred to in Section 3):

Acute Tox. 2, 3, 4	Acute toxicity, Hazard Categories 2, 3, 4.
Skin Corr. 1A, 1B	Skin corrosion/irritation, Subcategories 1A, 1B.
Skin Sens. 1A	Sensitisation. Skin, Hazard Category 1A.
Skin Irrit. 2	Skin corrosion/irritation, Hazard Category 2.
Eye Dam. 1	Serious eye damage/irritation, Hazard Category 1.
Eye Irrit. 2	Serious eye damage/irritation, Hazard Category 2.
Muta. 2	Germ cell mutagenicity, Hazard Category 2
Carc. 1B	Carcinogenicity, Hazard Category 1B.
STOT SE 3	Specific target organ toxicity — Single exposure, Hazard Category 3, Respiratory tract irritation
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1, 2	Hazardous to the aquatic environment — Chronic Hazard, Categories 1, 2

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Flam. Liq. 2, 3	Flammable liquids, Hazard Categories 2, 3.
Flam. Gas 1B	Flammable gases, hazard category 1B.
Met. Corr. 1	Corrosive to metals, Hazard Category 1.
H221	Flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Explanations of abbreviations and acronyms:

CLP	Regulation on classification, labelling and packaging of substances and mixtures (Regulation (EC) No 1272/2008).
ATE	Acute toxicity estimate.
ADR	European Agreement concerning the international carriage of dangerous goods by road.
CAS	The registration number assigned to the substance by the Chemical Abstracts Service.
EC	Registration number of the substance.

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LC50	Lethal concentration in 50 % of the population studied.
LD50	Mean lethal dose.
NOEC	No Observed Effect Concentration.
REACH	Registration, evaluation and authorisation of chemicals.
PBT	Persistent, bioaccumulative, toxic substances.
vPvB	Very Persistent and Very Bioaccumulative.
ED	Endocrine disruptor.
SDS	Safety Data Sheet.
EU	European Union.
DNEL	Derived no-effect level.
PNEC(s)	Predicted no-effect concentration(s).
Kow	Octanol-water partition coefficient.
EBPO	Organisation for Economic Co-operation and Development.
HN	Hygiene standard.
STOT	Specific target organ toxicity.
STOT (RE)	Repeated exposure.
STOT (SE)	single exposure.

The assessment methods referred to in Article 9 of Regulation (EC) No 1272/2008 have been used for classification purposes:

Flam. Liq. 3, H226	Based on product data and literature
Acute Tox. 4, H302	Calculation method
Skin Corr. 1, H314	Based on product data or assessment
Eye Dam. 1, H318	Based on product data or assessment
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 2, H411	Calculation method
EUH071	Based on existing information on the mixture

Advice on training:

In addition to occupational health, safety and environmental training, companies must ensure that workers read, understand and are able to apply the requirements of this safety data sheet.

Sources for completing the safety data sheet:

Main source of literature:

- ECHA (European Chemicals Agency) database.

Other sources:

- GESTIS (<https://gestis-database.dguv.de/>);
- eChemPortal (<https://echemportal.org/echemportal/>);
- IPCS INCHEM (<https://www.inchem.org/#/>);
- Safety Data Sheets of the ingredients.

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END OF SAFETY DATA SHEET