SAFETY DATA SHEET

according to Regulation No. 1907/2006 of the European Parliament and of the Council, as subsequently amended

CLEAMEN 145

Date of revision: **25. 02. 2025** Version: **4.0**

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Date of issue: **01. 08. 2021**

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

1.1. Product identifier

Product Name

CLEAMEN 145

UFI code

UFI: 2AQ0-D0YK-W00U-TSP8

Product code

None.

Mixture description

Water solution.

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

Identified uses

Liquid non-foaming agent designed for cleaning all hard floor surfaces resistant to water and alkalis.
Professional and consumer use.

Uses advised against

Not known. It is recommended to use it only for the intended use. Other uses may expose users to unpredictable risks.

1.3. Details of the supplier of the safety data sheet

CORMEN s.r.o.
Věchnov 73
593 01
Czech Republic
telephone: +420 566 550 961
Fax: +420 566 551 822
e-mail address for a competent person responsible for the SDS: info@cormen.cz

1.4. Emergency telephone number

112 (General emergency phone).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture **is classified as hazardous** according to regulation 1272/2008/EC.

Classification according to 1272/2008/EC

Eye Dam. 1; H318

Full text of classifications and H-phrases: see section 16.

The most important adverse physical, human health and environmental effects

Causes serious eye irritation. May produce an allergic reaction.

2.2. Label elements

Hazard pictograms

Signal word

Danger

Substances of the mixture to be placed on the label

Contains Undecanol, branched and linear, ethoxylated, propoxylated (≥ 2.5 moles EO/PO).

Hazard statements

H318	Causes serious eye damage.

Precautionary statements

P102	Keep out of reach of children.
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.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. **Dispose of the cleaned packaging without any residual product content in the sorted waste.**

Supplemental hazard information

EUH208 - Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Composition according to regulation 648/2004/EC on detergents: ≥ 5 - < 15 % non-ionic surfactants, < 5% amphoteric surfactants, perfumes, LINALOOL, BUTYLPHENYL METHYLPROPIONAL, HEXYL CINNAMAL, COUMARIN, CINNAMYL ALCOHOL, HYDROXYCITRONELLAL, preservation agents (METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE).

2.3. Other hazards

Mixture does not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH regulation. Mixture does not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

3.2.1. Substances of a mixture classified as hazardous

Identification of substance		Content wt. %	Classification according to 1272/2008/EC
Undecanol, branched and linear, ethoxylated, propoxylated (≥ 2.5 moles EO/PO)			
CAS Number EC Number Index Number Registration Number	not given 940-634-3 not given is not subject to registration, it is a polymer	5 - < 15	Acute Tox. 4; H302 Eye Dam. 1; H318 ATE_{oral} = 500 mg/kg bw
Propan-2-ol; Isopropyl alcohol; Isopropanol			
CAS Number EC Number Index Number Registration Number	67-63-0 200-661-7 603-117-00-0 01-2119457558-25-XXXX	1 - < 10	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
2-Butoxyethanol; Ethylene glycol monobutyl ether; Butyl cellosolve			
CAS Number EC Number Index Number Registration Number	111-76-2 203-905-0 603-014-00-0 01-2119475108-36-XXXX	1 - < 10	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 3; H331 ATE_{oral} = 1 200 mg/kg bw $ATE_{inhalation}$ = 3 mg/L (vapours)
2,2'-Iminodiethanol; Diethanolamine			
CAS Number EC Number Index Number Registration Number	111-42-2 203-868-0 603-071-00-1 01-2119488930-28-XXXX	0,1 - < 1	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Repr. 2; H361fd STOT RE 2; H373 (liver, blood, kidney, nervous system)
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			

CAS Number EC Number Index Number Registration Number	55965-84-9 not given 613-167-00-5 not yet available	< 0.0015	Acute Tox. 3; H301 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Acute Tox. 2; H330 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M=100 M(Chronic)=100 ATE_{oral} = 66 mg/kg bw ATE_{dermal} = 87 mg/kg bw $ATE_{inhalation}$ = 0.17 mg/L (aerosol)

The substance has specific concentration limits:

Skin Corr. 1C; H314	C ≥ 0.6 %
Eye Dam. 1; H318	C ≥ 0.6 %
Skin Irrit. 2; H315	0.06 % ≤ C < 0.6 %
Eye Irrit. 2; H319	0.06 % ≤ C < 0.6 %
Skin Sens. 1A; H317	C ≥ 0.0015 %

Full text of classifications and H-phrases: see section 16.

SECTION 4: First aid measures

In all cases keep the victim at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing. Protect yourself during rescue work.

4.1. Description of first aid measures

Inhalation

Interrupt the exposure, move the person to the fresh air. In case of persistent nausea, seek medical advice.

Skin contact

Remove contaminated clothing, shoes, and wash affected skin thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. If the problem persists, seek medical advice.

Eye contact

Rinse with a gentle stream of water for at least 15 minutes. Keep your eyelids wide open with your thumb and forefinger. If the affected person is wearing contact lenses, remove them before rinsing eyes if it is easy. Seek medical advice.

Ingestion

Rinse your mouth and then drink plenty of water. Do not induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Seek medical advice.

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

Are not known.

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

Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Small fire:

Carbon dioxide CO_2, dry extinguishing agent, sand or earth, alcohol-resistant foam.

Extensive fire:

Fragmented water streams (water mist), alcohol-resistant foam.

Unsuitable extinguishing media

Solid streams of water may be ineffective.

5.2. Special hazards arising from the substance or mixture

In case of fire extinguishing prevent leakage of water and rest of product into drains. Collect them separately and dispose of safely in accordance with current legislation and applicable local regulations.

In case of fires, hazardous combustion gases are formed: carbon oxides, sulphur oxides, hydrogen sulphide, nitrogen oxides, ammonia, chlorine oxides, hydrogen chloride and products of incomplete combustion.

5.3. Advice for firefighters

Stop further leakage of product if possible. Spilled product, which does not burn, cover with sand or foam. Move containers and barrels away from the fire to a safe place, if possible. Cool all affected containers down with flooding quantities of water. If the fire can´t be extinguished - evacuate the premises.

In case of fire, wear suitable respiratory protective equipment and fire-fighting suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes, use suitable protective equipment and clothing, see Section 8. Ensure adequate ventilation. Avoid formation of vapour and aerosol. At the point of leakage, prevent the movement of unauthorized persons.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. If this cannot be avoided, inform the competent authorities (police and firefighters) immediately.

6.3. Methods and material for containment and cleaning up

According to the amount of spilled liquid, drain away the substance (large spillage) or in case of small spillage, absorb it with suitable absorbent (vermiculite, dry sand), put into labelled closed containers and dispose of them accordingly to Section 13. Flush residues with water and collect it for waste disposal. Do not use solvents or dispersants unless instructed by an expert or government authority.

If container is damaged, remove the content to the new undamaged container and label it properly again.

6.4. Reference to other sections

Refer also to the provisions of sections 7, 8 and 13 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Personal protection see. Section 8. Ensure good ventilation to prevent formation of vapour and aerosol.

Smoking, eating and drinking should be prohibited at the place of use. Keep safety regulations for handling chemicals. Take off contaminated clothing and protective equipment before entering the dining area. Do not use dirty clothing. After work wash yourself carefully with warm water and soap, take a shower. Use protective cream.

7.2. Conditions for safe storage, including any incompatibilities

Store in original, tightly closed containers, in a dry, cool and well-ventilated place at room temperature.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Do not store together with incompatible materials (see subsection 10.5), food, drink and feed.

7.3. Specific end use(s)

See subsection 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure limit value

2-Butoxyethanol CAS: 111-76-2

Limit values - Eight hours		Limit values - Short-term		Note
98 mg/m^3	20 ppm	246 mg/m^3	50 ppm	skin

8.1.2. Biological limit values

Not determined in EU.

8.1.3. DNEL and PNEC values

Propan-2-ol CAS: 67-63-0

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	500 mg/m^3
Workers	Inhalation	Systemic effect	Acute/short term	1 000 mg/m^3
Workers	Dermal	Systemic effect	Long term	888 mg/kg/day
General population	Inhalation	Systemic effect	Long term	89 mg/m^3
General population	Inhalation	Systemic effect	Acute/short term	178 mg/m^3
General population	Dermal	Systemic effect	Long term	319 mg/kg/day
General population	Oral	Systemic effect	Long term	26 mg/kg/day
General population	Oral	Systemic effect	Acute/short term	51 mg/kg/day

PNEC - not available

2-Butoxyethanol CAS: 111-76-2

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	98 mg/m^3
Workers	Inhalation	Systemic effect	Acute/short term	1 091 mg/m^3

Workers	Inhalation	Local effect	Acute/short term	246 mg/m^3
General population	Inhalation	Systemic effect	Long term	59 mg/m^3
General population	Inhalation	Systemic effect	Acute/short term	426 mg/m^3
General population	Inhalation	Local effect	Acute/short term	147 mg/m^3
General population	Oral	Systemic effect	Long term	6.3 mg/kg/day
General population	Oral	Systemic effect	Acute/short term	26.7 mg/kg/day

PNEC

Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
not given	not given	not given	not given	66 mg/l

PNEC

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
not given	not given	not given	not given	not given

Diethanolamine CAS: 111-42-2

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	0.75 mg/m^3
Workers	Inhalation	Local effect	Long term	0.5 mg/m^3
Workers	Dermal	Systemic effect	Long term	0.13 mg/kg/day
General population	Inhalation	Systemic effect	Long term	0.125 mg/m^3
General population	Inhalation	Local effect	Long term	0.125 mg/m^3
General population	Dermal	Systemic effect	Long term	0.07 mg/kg/day
General population	Oral	Systemic effect	Long term	0.06 mg/kg/day

PNEC

Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.021 mg/l	0.002 mg/l	0.095 mg/l	not given	100 mg/l

PNEC

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
0.096 mg/l	0.009 mg/kg	no effect	1.63 mg/kg	1.04 mg/kg food

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Use only in well-ventilated areas.

Observe usual safety precautions for working with chemicals. The degree of effectiveness of personal protective equipment depends on temperature and ventilation levels.

8.2.2. Individual protection measures, such as personal protective equipment

Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream. Do not soiled protective equipment to wash, do not use solvents.

Eye/face protection

Wear safety goggles or face shield when manufacturing and handling the product (EN 166, EN 149+A1). It is not necessary for normal use, in case of possible contact with the eyes, use protective glasses or a face shield.

Skin protection - hand protection

Wear protective gloves when manufacturing and handling the product (EN 374-1, EN 374-2). In normal use it is not necessary to use protective gloves. Wear protective gloves in case of prolonged skin contact.

The selection of the glove material on consideration of the breakthrough time, permeability, degradation and next relevant factors; other chemicals that may come into contact, physical requirements (cut and puncture protection, dexterity, thermal protection), possible body reactions to the glove material and the glove supplier's instructions and specifications. In case of repeated use of gloves, clean and keep them in a well-ventilated place before taking off.

Skin protection - other

Suitable protective working clothing and footwear.

Respiratory protection

Not necessary in case of compliance concentration limits (if they were exceeded, use respiratory protection). In the event of an accident or a fire use self-contained breathing apparatus.

Thermal hazards

In normal use, it is not necessary to use protective equipment to be worn for materials that represent a thermal hazard.

8.2.3. Environmental exposure controls

Uncontrolled release of the mixture into environment is to be avoided. Keep the emission limits according to national legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Mixture

Physical state	Liquid.
Colour	Colorless.
Odour	Characteristic.
Melting point/freezing point	Not determined.
Boiling point or initial boiling point and boiling range	82 °C
Flammability	Not determined.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	46 °C
Auto-ignition temperature	Not determined.

Decomposition temperature	Not determined, the mixture does not contain self-reactive substances or organic peroxides or other substances which may decompose.
pH	10
Kinematic viscosity	Not determined, the mixture does not contain a substance classified as aspiration toxic, or the sum of the concentrations of substances classified as aspiration toxic is less than 10 wt. %.
Solubility	Miscible.
Partition coefficient n-octanol/water (log value)	Does not apply to mixture.
Vapour pressure	23 hPa.
Density and/or relative density	D_4^{20} = 0.98286.
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Propan-2-ol	CAS: 67-63-0
Physical state	Liquid.
Colour	Colopurless.
Odour	Not determined.
Melting point/freezing point	-88.5 °C (literature).
Boiling point or initial boiling point and boiling range	82.3 °C (literature).
Flammability	Highly flammable liquid.
Lower explosion limit	2 vol. % (literature).
Upper explosion limit	13 vol. % (literature).
Flash point	11.7 °C (literature).
Auto-ignition temperature	399 - 455.6 °C (literature).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	Miscible with water.
Partition coefficient n-octanol/water (log value)	log Pow = 0.05 (25 °C, literature).
Vapour pressure	Not determined.
Density and/or relative density	785.5 kg/m^3 (20 °C, literature).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
2-Butoxyethanol	CAS: 111-76-2
Physical state	Liquid.

Colour	Colorless.
Odour	Etheric.
Melting point/freezing point	-74.8 °C (literature).
Boiling point or initial boiling point and boiling range	173.5 °C (IP123/93).
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	67 °C (DIN 51758).
Auto-ignition temperature	230 °C (literature).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	900 g/l (20 °C, pH = 7, literature).
Partition coefficient n-octanol/water (log value)	log Pow = 0.81 (25 °C, pH = 7, shake-flask method).
Vapour pressure	0.8 hPa (20 °C, literature).
Density and/or relative density	900 kg/m^3 (20 °C, DIN 51 757).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.

Diethanolamine	CAS: 111-42-2
Physical state	Solid.
Colour	Colorless.
Odour	Ammonia like odour.
Melting point/freezing point	27 °C.
Boiling point or initial boiling point and boiling range	269.9 °C (EU method A.2).
Flammability	The substance is not classified as flammable (UN Transport Regulations Test N.1).
Lower explosion limit	Does not apply to solid.
Upper explosion limit	Does not apply to solid.
Flash point	Does not apply to solid.
Auto-ignition temperature	375 °C (EU method A.15).
Decomposition temperature	> 200 °C (EU method A.2).
pH	Not determined.

Kinematic viscosity	Does not apply to solid.
Solubility	1 000 g/l (20 °C, literature).
Partition coefficient n-octanol/water (log value)	log Pow = -2.46 (25 °C, pH = 6.8 - 7.3, OECD 107).
Vapour pressure	1 hPa (108 °C, OECD 104).
Density and/or relative density	1 095.3 kg/m³ (23.8 °C, literature).
Relative vapour density	Does not apply to solid.
Particle characteristics	Not determined.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Mixture

Explosives

Data for the mixture are not available.

The mixture does not contain substances classified as explosives or oxidising, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

The mixture is not classified as a flammable liquid according to the negative result of the sustained burning test according to ČSN EN ISO 9038.

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the mixture are not available.

The mixture does not contain substances classified as self-reactive substances or explosives or organic peroxides or oxidising, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Pyrophoric liquids

Data for the mixture are not available.

The mixture does not contain substances classified as pyrophoric liquids or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the mixture are not available.

The mixture does not contain substances classified as self-heating or pyrophoric substances or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Substances and mixtures, which emit flammable gases in contact with water

Data for the mixture are not available.

The mixture does not contain substances classified as substances, which emit flammable gases in contact with water or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Oxidising liquids

Data for the mixture are not available.

The mixture does not contain substances classified as oxidising liquids or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Oxidizing solids

It is not solid.

Organic peroxides

Data for the mixture are not available.

The mixture does not contain substances classified as organic peroxides or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Corrosive to metals

Data for the mixture are not available.

The mixture does not contain substances classified as corrosive to metals or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Desensitised explosives

Data for the mixture are not available.

The mixture does not contain substances classified as explosives or desensitised explosives, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Propan-2-ol CAS: 67-63-0

Explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

Pure propan-2-ol is autoxidated by air and light to form an explosive cyclic triacetone triperoxide, which settles to the bottom of the vessel as a white sediment. In the event of such a finding, the container must be handled immediately and pyrotechnics called.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

The substance is classified as flammable liquid category 2 according to the value of the flash point and boiling point.

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive or self-reactive properties.

Pyrophoric liquids

Data for the substance are not available.
The substance is stable in air, there is no spontaneous ignition.

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the substance are not available.
The substance is not classified as self-heating.

Substances and mixtures, which emit flammable gases in contact with water

Data for the substance are not available.
The chemical structure of the substance does not contain metals or metalloids.
The substance is miscible with water and forms a stable mixture with it.

Oxidising liquids

Data for the substance are not available.
It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

Oxidizing solids

It is not solid.

Organic peroxides

Data for the substance are not available.
The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.
The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive properties.

2-Butoxyethanol CAS: 111-76-2

Explosives

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive properties.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

The substance is not classified as flammable liquid according to the value of the flash point and boiling point.

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive or self-reactive properties.

Pyrophoric liquids

Data for the substance are not available.
The substance is stable in air, there is no spontaneous ignition.

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the substance are not available.
The substance is not classified as self-heating.

Substances and mixtures, which emit flammable gases in contact with water

Data for the substance are not available.
The chemical structure of the substance does not contain metals or metalloids.
The substance is soluble in water and forms a stable mixture with it.

Oxidising liquids

Data for the substance are not available.
It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

Oxidizing solids

It is not solid.

Organic peroxides

Data for the substance are not available.
The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.
The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive properties.

Diethanolamine CAS: 111-42-2

Explosives

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive properties.

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

It is not liquid.

Flammable solids

The substance is not classified as flammable solid (UN Transport Regulations Test N.1).

Self-reactive substances and mixtures

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive or self-reactive properties.

Pyrophoric liquids

It is not liquid.

Pyrophoric solids

Data for the substance are not available.
The substance is stable in air, there is no spontaneous ignition.

Self-heating substances and mixtures

Data for the substance are not available.
The substance is not classified as self-heating.

Substances and mixtures, which emit flammable gases in contact with water

Data for the substance are not available.
The chemical structure of the substance does not contain metals or metalloids.
The substance is soluble in water and forms a stable mixture with it.

Oxidising liquids

It is not liquid.

Oxidizing solids

Data for the substance are not available.
It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

Organic peroxides

Data for the substance are not available.
The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.
The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.
The substance does not contain chemical groups associated with explosive properties.

9.2.2. Other safety characteristics

Mechanical sensitivity	Not determined, it is not an explosive substance.
Self-accelerating polymerisation temperature	Not determined, it is not a polymerising substance.
Formation of explosible dust/air mixtures	Not determined, it is not a dust.
Acid/alkaline reserve	Not determined.
Evaporation rate	Not determined.
Miscibility	Not determined.
Conductivity	Not determined.
Corrosiveness	Not determined.
Gas group	Not determined, it is not gas.
Redox potential	Not determined.
Radical formation potential	Not determined.
Photocatalytic properties	Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is stable under normal conditions of use. There aren´t any hazardous reaction.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions aren´t known under normal conditions of use.

10.4. Conditions to avoid

Protect from temperatures below 0 °C.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

They do not form under normal use. Burning releases carbon oxides, sulphur oxides, hydrogen sulphide, nitrogen oxides, ammonia, chlorine oxides, hydrogen chloride and products of incomplete combustion.

SECTION 11: Toxicological information

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

Mixture

Acute toxicity

The mixture is not classified as toxic for all routes of exposure.

Oral Data for the mixture are not available.

The mixture is not classified by the additive formula.

$ATE_{mixture}$ > 2 608 mg/kg bw.

Dermal Data for the mixture are not available.

The mixture does not contain relevant substances classified as an acute toxicity by dermal route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Inhalation Data for the mixture are not available.

The mixture is not classified by the additive formula.

$ATE_{mixture}$ > 20 mg/l (vapour).

Skin corrosion/irritation

Data for the mixture are not available.

The mixture is not classified as skin irritant based on the general/specific concentration limits of substance(s).

Serious eye damage/irritation

Data for the mixture are not available.

The mixture is classified as causes serious eye damage based on the general/specific concentration limits of substance(s).

Respiratory or skin sensitisation

Data for the mixture are not available.

The mixture is not classified as a skin sensitizing according to the general/specific concentration limits of substance(s).

EUH208 - Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Germ cell mutagenicity

Data for the mixture are not available.

The mixture does not contain substances classified as mutagenicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Carcinogenicity

Data for the mixture are not available.

The mixture does not contain substances classified as carcinogenicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Reproductive toxicity

Data for the mixture are not available.

The mixture is not classified as toxic for reproduction according to the general/specific concentration limits of substance(s).

STOT – single exposure

Data for the mixture are not available.

The mixture is not classified as toxic for specific target organs in a single exposure in category 3 according to the recommended concentration limits of substance(s).

STOT – repeated exposure

Data for the mixture are not available.

The mixture does not contain relevant substances classified as toxic for specific target organs in a repeated exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Aspiration hazard

Data for the mixture are not available.

The mixture does not contain substances classified as aspiration hazard or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Other information

See section 2 and 4.

Propan-2-ol CAS: 67-63-0

Acute toxicity

Oral	Based on available data, the classification criteria are not met. LD_{50} = 5 840 mg/kg bw (rat, OECD 401).
Dermal	Based on available data, the classification criteria are not met. LD_{50} = 16.4 ml/kg bw (12 792 mg/kg bw at a density of 0.78 g/cm^3, rabbit, OECD 402).
Inhalation	Based on available data, the classification criteria are not met. LC_{50} > 10 000 ppm (vapour, 6 h, OECD 403).

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Mean erythema score = 0 and oedema = 0 (rabbit, OECD 404).

Serious eye damage/irritation

The substance is classified as eye irritant.

Total mean irritation score = 1.89 (rabbit, 72 h, OECD 405).

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Not skin sensitising (guinea pig, OECD 406).

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Negative (OECD 471, OECD 476).

Carcinogenicity

Based on available data, the classification criteria are not met.

NOAEL = 5 000 ppm (testicular tumors, rat, male, vapour, OECD 451).

Reproductive toxicity

Based on available data, the classification criteria are not met.

NOAEL = 853 mg/kg/day (rat, oral, generation P0, OECD 415).

STOT – single exposure

The substance may cause drowsiness or dizziness.

STOT – repeated exposure

Based on available data, the classification criteria are not met.

NOEC = 500 ppm (specific toxic effect, rat, vapour, 104 weeks, OECD 451).

NOAEC = 5 000 ppm (specific exposure-related adverse reaction, rat, vapour, 104 weeks, OECD 451).

NOEC = 5 000 ppm (effects of oncogenicity, rat, vapour, 104 weeks, OECD 451).

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm^2/s or less at 40 °C.

2-Butoxyethanol CAS: 111-76-2

Acute toxicity

Oral	The substance is classified in category 4. LD_{50} = 1 414 mg/kg bw (rat, OECD 401). ATE = 1 200 mg/kg bw (according to harmonized classification).
Dermal	Based on available data, the classification criteria are not met. LD_{50} > 2 000 mg/kg bw (rabbit, OECD 402).
Inhalation	The substance is classified in category 3 according to harmonized classification. ATE = 3 mg/l (for calculation by additive formula, vapour).

Skin corrosion/irritation

The substance is classified as skin irritant.

Mean erythema score = 1.7 (not fully reversible after 14 days) and edema = 0.13 (not fully reversible after 14 days) (rabbit, EU method B.4).

Serious eye damage/irritation

The substance is classified as eye irritant.

Mean score of corneal opacity = 0.89 (fully reversible after 21 days), iritis = 0.56 (fully reversible after 7 days), conjunctival redness = 2.6 (fully reversible after 21 days) = 1.8 (fully reversible after 14 days) (rabbit, 72 h, OECD 405).

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Not skin sensitising (guinea pig, maximization test).

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Negative (OECD 471, OECD 473, OECD 476).

Carcinogenicity

Based on available data, the classification criteria are not met.

NOAEC = 125 ppm (liver hemangiocarcomas, rat, male, vapour, OECD 451).

NOAEC = 125 ppm (forestomach tumors, rat, female, vapour, OECD 451).

Reproductive toxicity

Based on available data, the classification criteria are not met.

NOAEL = 720 mg/kg/day (body weight loss, mortality, reproductive performance, mouse, oral, generation P0).

LOAEL = 720 mg/kg/day (water consumption and compound intake, mouse, oral, generation P0).

NOAEL = 720 mg/kg/day (pup weight, mouse, orally, generation F1).

NOAEL = 720 mg/kg/day (no effect, mouse, oral, generation F2).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

Based on available data, the classification criteria are not met.

NOAEL < 69 mg/kg/day (histopathology, rat, male, oral, 90 days, OECD 408).

NOAEL < 82 mg/kg/day (histopathology and hematology, rat, female, oral, 90 days, OECD 408).

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm^2/s or less at 40 °C.

Diethanolamine CAS: 111-42-2

Acute toxicity

Oral	The substance is classified in category 4. LD_{50} = cca. 1 600 mg/kg bw (rat, OECD 401).
Dermal	Data for the substance are not available.
Inhalation	Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin irritant according to harmonized classification.

Mean erythema score = 0 (exposure 1 minute), 0 (exposure 5 minutes), 0 (exposure 15 minutes), 1.33 (exposure 20 hours) and edema = 0 (exposure 1 minute), 0 (exposure 5 minutes), 0 (exposure 15 minutes), 1.33 (exposure 20 hours) (rabbit, 72 hrs., OECD 404).

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes according to harmonized classification.

Mean score of corneal opacity = 1.67, conjunctival redness = 1.5, conjunctival oedema = 0.83 (rabbit, 72 hrs., OECD 405).

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Not skin sensitising (guinea pig, OECD 406).

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Negative (OECD 471, OECD 473, OECD 476, OECD 479).

Carcinogenicity

Based on available data, the classification criteria are not met.

LOAEL = 40 mg/kg/day (carcinogenity, mouse, dermal, OECD 451).

Reproductive toxicity

The substance is classified as reproductive toxicity category 2.

NOAEL = 100 ppm (gross pathology, rat, oral, generation P0, OECD 443).

NOAEL = 300 ppm (reproduction and fertility, rat, oral, generation P0, OECD 443).

NOAEL = 300 ppm (reproductive performance, developmental neurotoxicity and developmental immunotoxicity, rat, oral, generation F1, OECD 443).

NOAEL = 100 ppm (developmental toxicity, rat, oral, generation F1, OECD 443).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

Classified as specific target organ toxicity category 2 - may cause damage to the liver, blood, kidneys and nervous system through prolonged or repeated exposure.

LOAEL = 14 mg / kg / day (hematology, nephrotoxicity, increased renal weight, rat, male, oral, 90 days, OECD 408).

LOAEL = 25 mg / kg / day (hematology, increased renal weight, rat, female, oral, 90 d., OECD 408).

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm^2/s or less at 40 °C.

11.2. Information on other hazards

Mixture does not contain substance(s) meets meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet and given in the list (established in accordance with Article 59(1) for having endocrine disrupting properties of REACH regulation.

Mixture does not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.There is no other relevant information on adverse health effects that is not required according to the classification criteria set out in CLP Regulation.

SECTION 12: Ecological information

12.1. Toxicity

Mixture

Data for the mixture are not available.

Acute aquatic toxicity

The mixture is not classified as acute aquatic toxicity based on calculation according to the summation method.

category 1	∑ < 0.15

Chronic aquatic toxicity

The mixture is not classified as chronic aquatic toxicity based on calculation according to the summation method.

category	1	2	3	4
∑	< 0.15	< 1.5	< 15	< 0.0015

Propan-2-ol CAS: 67-63-0

The substance is not classified as hazardous for the aquatic environment.

Fish

LC_{50}, 96 hrs., Pimephales promelas: 9 640 - 10 000 mg/l (mortality, OECD 203)

Crustaceans

EC_{50}, 24 hrs., Daphnia Magna: > 10 000 mg/l (mobility, OECD 202)
logNOEC, 16 d., Daphnia Magna: 3.37 (growth, NOEC = 2 344 µmol/l = 140.9 mg/l)

Algae

Threshold toxicity, 7 d., Scenedesmus quadricauda: 1.800 mg/l

2-Butoxyethanol CAS: 111-76-2

The substance is not classified as hazardous for the aquatic environment.

Fish

LC_{50}, 96 hrs., Oncorhynchus mykiss: 1 474 (mortality, OECD 203).
NOEC, 21 d., Brachydanio rerio: > 100 mg/l (markers for endocrine disruptive effects, OECD 204).

Crustaceans

EC_{50}, 48 hrs., Daphnia Magna: 1 550 mg/l (mobility, OECD 202).
EC_{10}, 21 d., Daphnia Magna: 1 800 mg/l (mortality, OECD 202).
NOEC, 21 d., Daphnia Magna: 100 mg/l (reproduction, OECD 202).

Algae

EC_{50}, 72 hrs., Selenastrum capricornutum: 911 mg/l (biomass, OECD 201).
EC_{50}, 72 hrs., Selenastrum capricornutum: 1 840 mg/l (growth rate, OECD 201).
EC_{10}, 72 hrs., Selenastrum capricornutum: 308 mg/l (biomass, OECD 201).
EC_{10}, 72 hrs., Selenastrum capricornutum: 679 mg/l (growth rate, OECD 201).
NOEC, 72 hrs., Selenastrum capricornutum: 88 mg/l (biomass, OECD 201).
NOEC, 72 hrs., Selenastrum capricornutum: 286 mg/l (growth rate, OECD 201).

Diethanolamine CAS: 111-42-2

The substance is not classified as hazardous for the aquatic environment.

Fish

LC_{50}, 96 hrs., Oncorhynchus mykiss: 460 mg/l (mortality).

Crustaceans

EC_{50}, 48 hrs., Ceriodaphnia dubia: 30.1 mg/l (mobility, 24 °C).
EC_{50}, 48 hrs., Ceriodaphnia dubia: 89.9 mg/l (mobility, 20 °C).

Algae

EC_{50}, 72 hrs., Pseudokirchneriella subcapitata: 19 mg/l (growth rate, EPA 600/9-78-018).
NOEC, 72 hrs., Pseudokirchneriella subcapitata: 1.1 mg/l (growth rate, EPA 600/9-78-018).

12.2. Persistence and degradability

Mixture

Data for the mixture are not available.

Propan-2-ol CAS: 67-63-0

Readily biodegradable: 53 % after 5 days (CO2 evolution, OECD 301 B).

2-Butoxyethanol	CAS: 111-76-2
Readily biodegradable: 90.4 % after 28 days (CO_2 evolution, OECD 301 B).	
Diethanolamine	CAS: 111-42-2
Readily biodegradable: 93 % after 28 days (O2 consumption, OECD 301 F).	

12.3. Bioaccumulative potential

Mixture	
Data for the mixture are not available.	
Propan-2-ol	CAS: 67-63-0
log Pow = 0.05 (25 °C).	
2-Butoxyethanol	CAS: 111-76-2
log Pow = 0.81 (25 °C, pH = 7, shake-flask method).	
Diethanolamine	CAS: 111-42-2
log Pow = -2.46 (25 °C, pH = 6.8 - 7.3, OECD 107).	

12.4. Mobility in soil

Mixture	
Data for the mixture are not available.	
Propan-2-ol	CAS: 67-63-0
Data for the substance are not available.	
2-Butoxyethanol	CAS: 111-76-2
Data for the substance are not available.	
Diethanolamine	CAS: 111-42-2
log Koc = 1 (25 °C, pH = 5, calculation). log Koc = 0.99 (25 °C, pH = 7, calculation). log Koc = 0.98 (25 °C, pH = 8, calculation).	

12.5. Results of PBT and vPvB assessment

Mixture does not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH Regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH Regulation.

12.6. Endocrine disrupting properties

The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH Regulation. Mixture does not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods of the substance or mixture and the contaminated packaging

Dispose according to the applicable European and local regulations (eg. in a hazardous waste incinerator). Do not empty unused product into drainage systems. Do not contaminate ponds or ditches with the product or used container. Hand over the residual amounts and solutions to a licensed disposal company.

Hand over the remaining quantities and unregenerate solutions to an authorized person (specialized company with authorization) or to the collection yard in the hazardous waste section according to the worker's instructions. Empty, cleaned packaging can be stored at a landfill of the appropriate category or **in the sorted waste**.

Possible waste code

07 06 01* - aqueous washing liquids and mother liquors or 20 01 29* - detergents containing hazardous substances (mixture), 15 01 10* - packaging containing residues of or contaminated by hazardous substances (contaminated packaging), 15 01 02 - plastic packaging (clear packaging).

Physical/chemical properties that may affect waste treatment options

Not known.

Special precautions recommended for waste management

Not known.

Waste legislation

Directive 2008/98/EC on waste and repealing certain Directives, as amended.

SECTION 14: Transport information

The mixture is not classified as a flammable liquid according to the negative result of the sustained burning test according to ČSN EN ISO 9038.

14.1. UN number or ID number

Not given.

14.2. UN proper shipping name

Not given.

14.3. Transport hazard class(es)

Not given.

14.4. Packing group

Not given.

14.5. Environmental hazards

It is not dangerous for the environment during transport.

14.6. Special precautions for user

Not given.

14.7. Maritime transport in bulk according to IMO instruments

Not available.

SECTION 15: Regulatory information

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

Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures, as amended (CLP)

Regulation No. 528/2012/EC concerning the making available on the market and use of biocidal products, as amended

Regulation No. 648/2004/EC on detergents, as amended

15.2. Chemical safety assessment

It has not been carried out for mixture.

SECTION 16: Other information

Reason for the revision of the safety data sheet

Change of the classification and labeling of the mixture. Change in section 14.

Key or legend to abbreviations and acronyms

Acute Tox. 2	Acute toxicity, cat. 2
Acute Tox. 3	Acute toxicity, cat. 3
Acute Tox. 4	Acute toxicity, cat. 4
Aquatic Acute 1	Acute aquatic hazard, cat. 1
Aquatic Chronic 1	Chronic aquatic hazard, cat. 1
Eye Dam. 1	Serious eye damage, cat. 1
Eye Irrit. 2	Eye irritation, cat. 2
Flam. Liq. 2	Flammable liquid, cat. 2
Repr. 2	Reproductive toxicity, cat. 2
Skin Corr. 1C	Skin corrosion, cat. 1C
Skin Irrit. 2	Skin irritation, cat. 2
Skin Sens. 1A	Skin sensitization, cat. 1A
STOT RE 2	Specific target organ toxicity - repeated exposure, cat. 2
STOT SE 3	Specific target organ toxicity - single exposure, cat. 3
ATE	Acute Toxicity Estimate
bw	body weight
M	Multiplying factor
ADR	Accord Dangereuses Route
CLP	Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures
DNEL	Derived No Effect Level
ICAO/IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods

PBT	Persistent, bioaccumulative, toxic substance
PNEC	Predicted No Effect Concentration
REACH	Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
STOT	Specific target organ toxicity
vPvB	Very persistent and very bioaccumulative substance

Sources of key data used to compile the Safety Data Sheet

European legislation, manufacturer's safety data sheet, registration dossier of substances.

List of H- and P- phrases

EUH071	Corrosive to the respiratory tract.
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
P102	Keep out of reach of children.
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.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. **Dispose of the cleaned packaging without any residual product content in the sorted waste.**

Training advice

According to SDS.

Other information

Classification according to data from the manufacturer. The mixture is classified using calculation methods according to Regulation CLP and tests. Use only for the purposes designated by the manufacturer, will prevent health and environmental risks.
The information in this safety data sheet has been prepared according to the best available knowledge. The safety data sheet has been compiled in good faith but without guarantee. Various factors may influence properties under specific conditions. It is the responsibility of the product user to assess the accuracy of the information for their specific application. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. The safety data sheet is prepared in accordance with Regulation No. 2020/878/EC. There is no additional information in accordance with the local and national legislation of the Member State in the European Union, in the safety data sheet. The safety data sheet was prepared by LACHEPRA s.r.o.