SAFETY DATA SHEET

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

CLEAMEN 143

Date of revision:	**17. 08. 2023**	Version: **3.0**
Replaced version from:	**23. 08. 2022**	
Date of issue:	**30. 09. 2020**	

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

1.1. Product identifier

Product Name

CLEAMEN 143

UFI code

UFI: E440-30NE-Y00X-KE4K

Product code

VC14301

Mixture description

Mixture of acetone and butylglycol.

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

Identified uses

Liquid detergent for removing smudges on the floors.
Professional use.

Uses advised against

Do not spray or pour the agent directly on the surface - this may cause removal of wax,or as well as damage to the surface
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
Tel.: +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

Flam. Liq. 2; H225
Skin Irrit. 2; H315
Eye Irrit. 2; H319
Acute Tox. 4; H332
STOT SE 3; H336

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

The most important adverse physical, human health and environmental effects

Highly flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness.

2.2. Label elements

Hazard pictograms

Signal word

Danger

Substances of the mixture to be placed on the label

Contains Acetone, 2-Butoxyethanol.

Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
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.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Supplemental hazard information

This product is regulated by Regulation (EU) 2019/1148 on explosives precursors: all suspicious transactions and significant disappearances and thefts should be reported to the relevant national contact point.

Mandatory additional information is not required according to CLP regulation.

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
Acetone; Propan-2-one; Propanone			
CAS Number	67-64-1	65 - < 75	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066
EC Number	200-662-2		
Index Number	606-001-00-8		
Registration Number	01-2119471330-49-XXXX		
2-Butoxyethanol; Ethylene glycol monobutyl ether; Butyl cellosolve			
CAS Number	111-76-2	25 - < 30	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)
EC Number	203-905-0		
Index Number	603-014-00-0		
Registration Number	01-2119475108-36-XXXX		

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. If pain or redness persists, 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

Carbon dioxide CO_2, dry extinguishing agent, sand or earth.

Unsuitable extinguishing media

Water.

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 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.

This product is regulated by Regulation (EU) 2019/1148 on explosives precursors: all suspicious transactions and significant disappearances and thefts should be reported to the relevant national contact point.

7.2. Conditions for safe storage, including any incompatibilities

Store in original, tightly closed containers, in a dry, cool and well-ventilated place at temperature from 5 to 25 °C.

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)

Liquid detergent for removing smudges on the floors (linoleum, waxed floors, cast flooring, tiling, paving and other non-absorbent materials), which remain on the surface from the tires, boots, heels and other work shoes, etc.

Caution: Do not spray or pour the agent directly on the surface - this may cause removal of wax, or as well as damage to the surface.

Product can be used in a wide range of industries (production halls, warehouses, garages, cloakrooms, offices, etc.) or even to regular home maintenance.

Product is used undiluted and applied to the cloth. Use damp cloth to remove smudges.

Before the application it is necessary to wash the treated area by usual way first. We recommend to test the agent on a small piece of less visible part of the surface before applying. Test and remove smudges only by hand.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure limit value

Acetone				CAS: 67-64-1
Limit values - Eight hours		Limit values - Short-term		Note
1 210 mg/m^3	500 ppm	- mg/m^3	- ppm	none
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

Acetone CAS: 67-64-1

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	1 210 mg/m^3
Workers	Inhalation	Local effect	Acute/short term	2 420 mg/m^3
Workers	Dermal	Systemic effect	Long term	186 mg/kg/day
General population	Inhalation	Systemic effect	Long term	200 mg/m^3
General population	Dermal	Systemic effect	Long term	62 mg/kg/day
General population	Oral	Systemic effect	Long term	62 mg/kg/day

PNEC

Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
10.6 mg/kg	1.06 mg/kg	21 mg/l	not given	100 mg/l

PNEC

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
30.4 mg/kg	3.04 mg/kg	no effect	29.5 mg/kg	no effect

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	
8.8 mg/l	0.88 mg/l	26.4 mg/l	not given	463 mg/l

PNEC

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
34.6 mg/kg	3.46 mg/kg	no effect	2.33 mg/kg	0.02 g/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 glasses or face shield (EN 166, EN 149+A1).

Skin protection - hand protection

Wear protective gloves (EN 374-1, EN 374-2).

Recommended gloves material:

butyl rubber, breakthrough time: > 480 min., glove thickness: ≥ 0.5 mm

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 (EN ISO 13688) and protective footwear (EN ISO 20346).

Respiratory protection

Not necessary in case of compliance concentration limits (if they were exceeded, use a respirator against organic vapour, EN 14387). 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	Colourless.
Odour	Characteristic.
Melting point/freezing point	Not determined, the substances of the mixture have a melting point below -20 °C.

Boiling point or initial boiling point and boiling range	55 °C.
Flammability	The mixture is classified as highly flammable liquid according to the value of the flash point and boiling point.
Lower explosion limit	1.1 vol. %
Upper explosion limit	13 vol. %
Flash point	< 0 °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	Not determined.
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	Fully miscible.
Partition coefficient n-octanol/water (log value)	Does not apply to mixture.
Vapour pressure	233 hPa (20 °C)
Density and/or relative density	0.823 g/cm^3 (20 °C)
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Acetone	CAS: 67-64-1
Physical state	Liquid.
Colour	Volourless.
Odour	Mildly pungent, somewhat aromatic odour.
Melting point/freezing point	-94.8 °C (literature).
Boiling point or initial boiling point and boiling range	56.05 °C (literature).
Flammability	Highly flammable liquid.
Lower explosion limit	2.15 vol. % (literature).
Upper explosion limit	13 vol. % (literature).
Flash point	-17 °C (literature).
Auto-ignition temperature	465 °C (literature).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	5 - 6 (20 °C, literature).
Kinematic viscosity	Not specified, it is not a hydrocarbon or a chlorinated hydrocarbon.

Solubility	Fully miscible.
Partition coefficient n-octanol/water (log value)	-0.24 (literature).
Vapour pressure	23.7 mN/m (20 °C, literature).
Density and/or relative density	D_4^{20} = 0.79 (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.

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 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 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.

Acetone CAS: 67-64-1

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 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.

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

Acetone reacts in presence of bases. Vapours form potentially explosive mixtures with air. Heavier than air, they proceed at floor level and may backflash over great distances when ignited. May become electrostatically charged.

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. Do not expose to sunlight. Store locked up. The storage temperature is from 5 to 25 ° C.

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

10.5. Incompatible materials

Acetone attacks many plastics and rubbers. On contact with barium hydroxide, sodium hydroxide and many other alkaline materials condensation may occur.

Strong oxidizing agents.

10.6. Hazardous decomposition products

They do not form under normal use. Burning releases carbon oxides 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 classified as Acute Tox. 4; H332.

Oral	Data for the mixture are not available. The mixture is not classified by the additive formula. $ATE_{mixture}$ > 4 000 mg/kg.
Dermal	Data for the mixture are not available. The mixture does not contain 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 classified in category 4 based on the calculation of the additive formula. $ATE_{mixture}$ > 10 mg/l (vapour).

Skin corrosion/irritation

Data for the mixture are not available.

The mixture is 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 eye irritant based on the general/specific concentration limits of substance(s).

Respiratory or skin sensitisation

Data for the mixture are not available.

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

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

STOT – single exposure

Data for the mixture are not available.

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

STOT – repeated exposure

Data for the mixture are not available.

The mixture does not contain 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.

Acetone CAS: 67-64-1

Acute toxicity

Oral	Based on available data, the classification criteria are not met LD_{50} = 5 800 mg/kg (rat, female).
Dermal	Based on available data, the classification criteria are not met. LD_{50} > 7 426 mg/kg (rabbit, literature).

Inhalation Based on available data, the classification criteria are not met.
LC_{50} = ca. 132 mg/l (vapour, rat, 3 hrs, literature).

Skin corrosion/irritation

Based on available data, the classification criteria are not met.
Mean erythema score = 0 and oedema = 0 (guinea pig, 72 hrs.).
Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.
The substance is classified as eye irritant.
Mean score of corneal opacity = 1.25 (not fully reversible after 7 days), iritis = 0, conjunctival redness = 13 (fully reversible after 7 days), conjunctival oedema = 2 (not fully reversible after 7 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.
NOAEL = 79 mg/mouse (mouse, female, dermal).

Reproductive toxicity

Based on available data, the classification criteria are not met.
NOAEL = 10 000 mg/kg/day (fertility, rat, male, oral, generation P0).

STOT – single exposure

The substance is classified in category 3 - may cause drowsiness or dizziness.

STOT – repeated exposure

Based on available data, the classification criteria are not met.
NOAEL = 50 000 ppm (3 100 mg/kg/day, rat, female, oral, 90 days, OECD 408).
NOAEL = 10 000 ppm (900 mg/kg/day, rat, male, 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.

2-Butoxyethanol CAS: 111-76-2

Acute toxicity

Oral The substance is classified in category 4.
LD_{50} = 1 414 mg/kg (rat, OECD 401).
ATE = 1 200 mg/kg (according to harmonized classification).

Dermal Based on available data, the classification criteria are not met.
LD_{50} > 2 000 mg/kg (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.

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

Chronic aquatic toxicity

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

Acetone CAS: 67-64-1

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

Fish

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

Crustaceans

EC_{50}, 48 hrs., Daphnia Pulex: 8 800 mg/l (mortality).

NOEC, 28 d., Daphnia Magna: 2 212 mg/l (reproduction).

Algae

Threshold toxicity, 8 d., Microcystis aeruginosa: 530 mg/l (biomass).

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).

12.2. Persistence and degradability

Mixture

Data for the mixture are not available.

Acetone CAS: 67-64-1

Readily biodegradable: 90.9 % after 28 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).

12.3. Bioaccumulative potential

Mixture

Data for the mixture are not available.

Acetone CAS: 67-64-1

BCF = 3 (calculation).
log Pow = -0.24 (literature).

2-Butoxyethanol CAS: 111-76-2

log Pow = 0.81 (25 °C, pH = 7, shake-flask method).

12.4. Mobility in soil

Mixture

Data for the mixture are not available.

Acetone CAS: 67-64-1

Kd = 1.5 l/kg (20 °C).

2-Butoxyethanol CAS: 111-76-2

Data for the substance are not available.

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.

Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Possible waste code

14 06 03* - other solvents and solvent mixtures 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

Flammability.

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

14.1. UN number or ID number

UN 1090

14.2. UN proper shipping name

ACETONE MIXTURE.

14.3. Transport hazard class(es)

3

14.4. Packing group

II

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.

14.8. Other information

Labeling according to ADR

.

Additional data for ADR/RID	
Classification code	F1
Labels	3
Hazard identification code	33
Tunnel restriction code	D/E (ADR), - (RID)
Limited quantities	1 l
Excepted quantities	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category	2
Additional data for IMDG	
Emergency Schedules (EmS)	F-E/S-D

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. 648/2004/EC on detergents, as amended.

Regulation No. 2019/1148/EC on the marketing and use of explosives precursors, as amended.

15.2. Chemical safety assessment

Has not been carried out for mixture.

SECTION 16: Other information

Reason for the revision of the safety data sheet

Change in the classification and labeling of the mixture. Change of the classification of the substance and related changes in the other sections.

Key or legend to abbreviations and acronyms

Acute Tox. 3	Acute toxicity, cat. 3
Acute Tox. 4	Acute toxicity, cat. 4
Eye Irrit. 2	Eye irritation, cat. 2
Flam. Liq. 2	Flammable liquid, cat. 2
Skin Irrit. 2	Skin irritation, cat. 2
STOT SE 3	Specific target organ toxicity - single exposure, cat. 3

ATE	Acute Toxicity Estimate
bw	Body weight
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

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
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.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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 SDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. 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 created 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 created by company LACHEPRA s.r.o.