

SAFETY DATA SHEET

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

CLEAMEN 711

Date of revision: 13. 11. 2023

Version: 1.1

Replaced version from: 17. 01. 2022

Date of issue: 17. 01. 2022

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

1.1. Product identifier

Product Name

CLEAMEN 711

UFI code

UFI: 2PE0-908G-Y00V-09TR

Product code

None

Mixture description

An aqueous solution.

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

Identified uses

Slightly foaming liquid acidic industrial cleaner based on a mixture of organic and inorganic acids with surfactants. It can be used, for example, to clean railway wagons, to clean other means of road transport, to remove contamination in service stations, to remove dirt from crates, where used tools are stored from repairs, etc. It is also good for removing lime deposits from window panes. It can also be used in the food industry, such as the acidic washing of smoking bars and aluminum ham molds, in particular by manual cleaning with mechanical finishing. The resource has found application in a wide range of industries.

Only for professional users.

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

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

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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

Skin Corr. 1C; H314

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 severe skin burns and eye damage.

2.2. Label elements

Hazard pictograms



Signal word

Danger.

Substances of the mixture to be placed on the label

Contains Phosphoric acid, Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., Disodium metasilicate pentahydrate, Amines, C12-18 (even numbered)-alkyldimethyl, N-oxides.

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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.

Supplemental hazard information

Mandatory additional information is not required according to CLP regulation.

Composition according to regulation 648/2004/EC on detergents: < 5 % anionic surfactants, non-ionic surfactants.

2.3. Other hazards

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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
Phosphoric acid; Orthophosphoric acid		
CAS Number 7664-38-2	< 12.0	Met. Corr. 1; H290
EC Number 231-633-2		Acute Tox. 4; H302
Index Number 015-011-00-6		Skin Corr. 1B; H314
Registration Number 01-2119485924-24-XXXX		Eye Dam. 1; H318
The substance has specific concentration limits:		
Met. Corr. 1; H290	C > 20 %	
Skin Corr. 1B; H314	C ≥ 25 %	
Skin Irrit. 2; H315	10 % ≤ C < 25 %	
Eye Irrit. 2; H319	10 % ≤ C < 25 %	
2-Butoxyethanol; Ethylene glycol monobutyl ether; Butyl cellosolve		
CAS Number 111-76-2	≤ 5.0	Acute Tox. 4; H302
EC Number 203-905-0		Skin Irrit. 2; H315
Index Number 603-014-00-0		Eye Irrit. 2; H319
Registration Number 01-2119475108-36-XXXX		Acute Tox. 3; H331 ATE _{oral} = 1 200 mg/kg bw ATE _{inhalation} = 3 mg/L (vapours)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.		
CAS Number 85536-14-7	≤ 5.0	Acute Tox. 4; H302
EC Number 287-494-3		Skin Corr. 1C; H314
Index Number not given		Eye Dam. 1; H318
Registration Number 01-2119490234-40-XXXX		Aquatic Chronic 3; H412
Citric acid monohydrate		
CAS Number 5949-29-1	≤ 5.0	
EC Number 201-069-1		Eye Irrit. 2; H319
Index Number 607-750-00-3		STOT SE 3; H335
Registration Number 01-2119457026-42-XXXX		
Disodium metasilicate pentahydrate		

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CAS Number	10213-79-3		Met. Corr. 1; H290
EC Number	229-912-9		Skin Corr. 1B; H314
Index Number	014-010-00-8	≤ 2.0	Eye Dam. 1; H318
Registration Number	01-2119449811-37-XXXX		STOT SE 3; H335

The classification is for anhydride.

Amines, C12-18 (even numbered)-alkyldimethyl, N-oxides

CAS Number	68955-55-5		Acute Tox. 4; H302
EC Number	931-341-1		Skin Irrit. 2; H315
Index Number	not given	< 1.5	Eye Dam. 1; H318
Registration Number	01-2119489396-21-XXXX		Aquatic Acute 1; H400
			Aquatic Chronic 2; H411
			M=1

Propan-2-ol; Isopropyl alcohol; Isopropanol

CAS Number	67-63-0		Flam. Liq. 2; H225
EC Number	200-661-7		Eye Irrit. 2; H319
Index Number	603-117-00-0	≤ 1.0	STOT SE 3; H336
Registration Number	01-2119457558-25-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. 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

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5.1. Extinguishing media

Suitable extinguishing media

Small fire:

Carbon dioxide CO₂, 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, phosphor oxides, phosphine, nitrogen oxides, ammonia 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

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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. Protect from frost.

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

Phosphoric acid CAS: 7664-38-2

Limit values - Eight hours	Limit values - Short-term	Note
1 mg/m ³ - ppm	2 mg/m ³ - ppm	-

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

Phosphoric acid CAS: 7664-38-2

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	10.7 mg/m ³
Workers	Inhalation	Local effect	Long term	1 mg/m ³
Workers	Inhalation	Local effect	Acute/short term	2 mg/m ³
General population	Inhalation	Systemic effect	Long term	4.57 mg/m ³
General population	Inhalation	Local effect	Long term	0.36 mg/m ³
General population	Oral	Systemic effect	Long term	0.1 mg/kg/day

PNEC - not yet 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

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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
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.				CAS: 85536-14-7
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	7.6 mg/m ³
Workers	Dermal	Systemic effect	Long term	119 mg/kg/day
General population	Inhalation	Systemic effect	Long term	1.3 mg/m ³
General population	Dermal	Systemic effect	Long term	42.5 mg/kg/day
General population	Oral	Systemic effect	Long term	0.425 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.268 mg/l	0.027 mg/l	0.017 mg/l	not given	3.43 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
8.1 mg/l	6.8 mg/kg	no effect	35 mg/kg	no effect
Citric acid				ES: 201-069-1
DNEL - not yet available				
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.44 mg/l	0.044 mg/l	not given	not given	1 000 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators

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34.6 mg/l	3.46 mg/kg	not given	33.1 mg/kg	not given
Disodium metasilicate				ES: 229-912-9
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	6.22 mg/m ³
Workers	Dermal	Systemic effect	Long term	1.49 mg/kg/day
General population	Inhalation	Systemic effect	Long term	1.55 mg/m ³
General population	Dermal	Systemic effect	Long term	0.74 mg/kg/day
General population	Oral	Systemic effect	Long term	0.74 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
7.5 mg/l	1 mg/l	7.5 mg/l	not given	1 000 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
no effect	no effect	no effect	no effect	no effect
Amines, C12-18 (even numbered)-alkyldimethyl, N-oxides				CAS: 68955-55-5
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	6.2 mg/m ³
Workers	Dermal	Systemic effect	Long term	11 mg/kg/day
General population	Inhalation	Systemic effect	Long term	1.53 mg/m ³
General population	Dermal	Systemic effect	Long term	5.5 mg/kg/day
General population	Oral	Systemic effect	Long term	0.44 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.034 mg/l	0.003 mg/l	0.034 mg/l	not given	24 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
5.24 mg/kg	0.524 mg/kg	no effect	1.02 mg/kg	11.1 mg/kg food
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

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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

Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
140.9 mg/l	140.9 mg/l	140.9 mg/l	not given	2 251 mg/l

PNEC

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
552 mg/kg	552 mg/kg	not given	28 mg/kg	160 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 glasses or face shield (EN 166, EN 149+A1).

Skin protection - hand protection

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

Suitable gloves material: neoprene

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 vapour, EN 14387). In the event of an accident or a fire use self-contained breathing apparatus.

Thermal hazards

In normal use is not necessary 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.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Mixture

<i>Physical state</i>	Liquid.
<i>Colour</i>	Light yellow.
<i>Odour</i>	Characteristic.
<i>Melting point/freezing point</i>	Not determined.
<i>Boiling point or initial boiling point and boiling range</i>	100 °C.
<i>Flammability</i>	Not determined.
<i>Lower explosion limit</i>	Not determined.
<i>Upper explosion limit</i>	Not determined.
<i>Flash point</i>	> 65 °C.
<i>Auto-ignition temperature</i>	Not determined.
<i>Decomposition temperature</i>	Not determined, the mixture does not contain self-reactive substances or organic peroxides or other substances which may decompose.
<i>pH</i>	1 (20 °C).
<i>Kinematic viscosity</i>	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. %.
<i>Solubility</i>	Miscible.
<i>Partition coefficient n-octanol/water (log value)</i>	Does not apply to mixture.
<i>Vapour pressure</i>	23 hPa
<i>Density and/or relative density</i>	$D_4^{20} = 1.12084$.
<i>Relative vapour density</i>	Not determined.
<i>Particle characteristics</i>	Does not apply to liquid.

Phosphoric acid

CAS: 7664-38-2

<i>Physical state</i>	Solid.
<i>Colour</i>	Yellowish.
<i>Odour</i>	Not determined.
<i>Melting point/freezing point</i>	41.1 °C (EU method A.1).
<i>Boiling point or initial boiling point and boiling range</i>	296.5 °C (EU method A.2).
<i>Flammability</i>	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
<i>Lower explosion limit</i>	Does not apply to solid.

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Upper explosion limit	Does not apply to solid.
Flash point	Does not apply to solid.
Auto-ignition temperature	Does not apply to solid.
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	Does not apply to solid.
Solubility	The substance is miscible with water, the solubility in water is higher than 1000 g / l (20 °C, literature).
Partition coefficient n-octanol/water (log value)	Not determined, it is an inorganic substance.
Vapour pressure	4 Pa (20 °C, literature)
Density and/or relative density	$D_4^{38} = 1.84$ (EU method A.3).
Relative vapour density	Does not apply to solid.
Particle characteristics	Not determined.
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).

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Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	CAS: 85536-14-7
Physical state	Liquid.
Colour	Brown.
Odour	Characteristic.
Melting point/freezing point	279.5 K (EU method A.1).
Boiling point or initial boiling point and boiling range	462.2 K (EU method A.2).
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	196.9 °C (ASTM D93/07).
Auto-ignition temperature	380 °C (ASTM E 659-78).
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	> 16 g/ 100 g H ₂ O (20 °C, OECD 105).
Partition coefficient n-octanol/water (log value)	log Pow = 2.2 (23 °C, pH = 3.7, OECD 123).
Vapour pressure	1.06 * 10 ⁻⁸ Pa (25 °C, (Q)SAR method).
Density and/or relative density	D ₄ ²⁰ = 1.05 (OECD 109).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Citric acid	ES: 201-069-1
Physical state	Solid.
Colour	White.
Odour	Odourless.
Melting point/freezing point	ca. 153 °C (literature).
Boiling point or initial boiling point and boiling range	Not determined, substance decomposes.
Flammability	The substance is not classified as flammable (ECSIS Burning Test)
Lower explosion limit	Does not apply to solid.
Upper explosion limit	Does not apply to solid.

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Flash point	Does not apply to solid.
Auto-ignition temperature	Does not apply to solid.
Decomposition temperature	Not determined.
pH	Not determined.
Kinematic viscosity	Does not apply to solid.
Solubility	592 g/l (20 °C, literature).
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure	0 Pa (25 °C, literature).
Density and/or relative density	$D_4^{20} = 1.67$ (literature).
Relative vapour density	Does not apply to solid.
Particle characteristics	Not determined.
Disodium metasilicate	ES: 229-912-9
Physical state	Solid.
Colour	Colourless to white.
Odour	Not determined.
Melting point/freezing point	1 089 °C (literature).
Boiling point or initial boiling point and boiling range	Not determined.
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
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	Does not apply to solid.
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	Does not apply to solid.
Solubility	210 g/l (20 °C, pH = 12.7).
Partition coefficient n-octanol/water (log value)	Not determined, it is an inorganic substance.
Vapour pressure	Not determined, the substance has melting point higher than 300 °C.
Density and/or relative density	2.61 g/cm ³ (literature).
Relative vapour density	Does not apply to solid.
Particle characteristics	D10 = 397 µm (ISO 13320-1). D50 = 695 µm (ISO 13320-1). D90 = 1 150 µm (ISO 13320-1).

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Amines, C12-18 (even numbered)-alkyldimethyl, N-oxides		CAS: 68955-55-5
Physical state	Solid.	
Colour	White.	
Odour	Not determined.	
Melting point/freezing point	125 - 134 °C (literature).	
Boiling point or initial boiling point and boiling range	Not determined.	
Flammability	The substance is not classified as flammable (EU method A.10).	
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	Does not apply to solid.	
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	Does not apply to solid.	
Solubility	313.2 g/l (30 °C, pH = 4.95, EU method A.6).	
Partition coefficient n-octanol/water (log value)	log Pow = 1.85 (C12, calculation). log Pow = 2.69 (C14, calculation).	
Vapour pressure	cca. 0 Pa (25 °C, calculation).	
Density and/or relative density	$D_4^{23} = 0.716$ (EU method A.3).	
Relative vapour density	Does not apply to solid.	
Particle characteristics	Not determined.	
Propan-2-ol		CAS: 67-63-0
Physical state	Liquid.	
Colour	Colorless.	
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).	

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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.

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 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.

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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 is not classified as corrosive to category 1 metals based on a calculation according to the general / specific concentration limits of the substance(s).

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.

Phosphoric acid

CAS: 7664-38-2

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.

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Flammable liquids	
It is not liquid.	
Flammable solids	
Data for the substance are not available. The substance is not classified as flammable solid.	
Self-reactive substances and mixtures	
Data for the substance are not available. The substance is not classified as self-reactive.	
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 inorganic substance does not contain chemical groups associated with oxidising properties.	
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 classified as corrosive to metal category 1.	
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	

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CLEAMEN 711

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

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CLEAMEN 711

Data for the substance are not available.

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

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

CAS: 85536-14-7

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 3 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 is not classified as self-reactive.

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

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CLEAMEN 711

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.

Citric acid

ES: 201-069-1

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

It is not liquid.

Flammable solids

The substance is not classified as flammable solid (ECSIS Burning Test).

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

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CLEAMEN 711

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.

Disodium metasilicate

ES: 229-912-9

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

Data for the substance are not available.

The substance is not classified as flammable 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

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CLEAMEN 711

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 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 inorganic substance does not contain chemical groups associated with oxidising properties.

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 classified as corrosive to metal category 1.

Desensitised explosives

Data for the substance are not available.

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

Amines, C12-18 (even numbered)-alkyldimethyl, N-oxides

CAS: 68955-55-5

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.

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Flammable solids

The substance is not classified as flammable solid (EU method A.10).

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 does not contain chemical groups associated with oxidising properties.

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.

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

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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.

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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

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

10.5. Incompatible materials

Strong base, strong oxidizing agents. The mixture is corrosive to metals.

10.6. Hazardous decomposition products

They do not form under normal use. Burning releases carbon oxides, phosphor oxides, phosphine, nitrogen oxides, ammonia 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.

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Oral	Data for the mixture are not available. The mixture is not classified by the additive formula. ATE _{mixture} > 2 999 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 is not classified by the additive formula. ATE _{mixture} = 60 mg/l (estimate, low concentration of substance classified as toxic inhalation route of exposure).

Skin corrosion/irritation

Data for the mixture are not available.
The mixture is classified as corrosive for skin in category 1C 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 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 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 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.

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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.	
Phosphoric acid	CAS: 7664-38-2
Acute toxicity	
Oral	The substance is classified in category 4. The LD ₅₀ for a 10% solution of 75.4% thermal phosphoric acid in rats was determined to be 1.70 ml/100 g body weight (approximately 2600 mg/kg bw, OECD 423) ATE = 500 mg/kg (for calculation by additive formula)
Dermal	Based on available data, the classification criteria are not met. LD ₅₀ > 2 000 mg/kg (rabbit, no death, 85% phosphoric acid, literature).
Inhalation	Data for the substance are not available.
Skin corrosion/irritation	
The substance is classified as skin corrosion in category 1B. Mean erythema score = 4 (intact and abraded skin, not fully reversible after 72 hours) and oedema = 2.3 (intact skin, not fully reversible after 72 hours), 2.2 (abraded skin, not fully reversible after 72 hours), primary dermal irritation index PDII = 6.6 (80% phosphoric acid, rabbit).	
Serious eye damage/irritation	
The substance is classified as seriously damaging to the eyes.	
Respiratory or skin sensitisation	
Data for the substance are not available.	
Germ cell mutagenicity	
Based on available data, the classification criteria are not met. Negative (OECD 471, OECD 473, OECD 476).	
Carcinogenicity	
Data for the substance are not available.	
Reproductive toxicity	
Based on available data, the classification criteria are not met. NOAEL ≥ 500 mg/kg/day (fertility, rat, oral, generation P0, OECD 422) NOAEL ≥ 500 mg/kg/day (rat, oral, generation F1, OECD 422)	
STOT – single exposure	
Data for the substance are not available.	
STOT – repeated exposure	
Based on available data, the classification criteria are not met. LOAEL = 155 mg/kg/day (nephrocalcinosis, rat, oral).	
Aspiration hazard	

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The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

2-Butoxyethanol

CAS: 111-76-2

Acute toxicity

- Oral** The substance is classified in category 4.
LD₅₀ = 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.
LD₅₀ > 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 hemangiomas, 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

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CLEAMEN 711

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 mm²/s or less at 40 °C.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

CAS: 85536-14-7

Acute toxicity

Oral The substance is classified in category 4.
LD₅₀ = ca. 1 470 mg/kg (rat, OECD 401).

Dermal Based on available data, the classification criteria are not met.
LD₅₀ > 2 000 mg/kg (rabbit, OECD 402).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin corrosion in category 1C.

Primary dermal irritation index PDII = 5.25 (max. 6, not reversible); 5.33 (max. 8, not reversible) (rabbit, 72 h, OECD 404).

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes.

Overall irritation score = 46.9 (not fully reversible after 6 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.

In vitro:

Negative (OECD 471).

Positive (OECD 473).

In vivo:

Negative (OECD 474, mammalian germ cell cytogenetic assay, rodent dominant lethal assay).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

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

NOAEL = 350 mg/kg/ day (rat, oral, generation P0).

NOAEL = 350 mg/kg/ day (rat, oral, generation F1).

NOAEL = 350 mg/kg/ day (rat, oral, generation F2).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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CLEAMEN 711

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

NOAEL = 85 mg/kg/day (liver and kidney, rat, oral).

LOAEL = 300 mg/kg/ day (liver and kidney, rat, oral).

NOAEL = 5 % (rat, dermal).

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

Citric acid

ES: 201-069-1

Acute toxicity

Oral Based on available data, the classification criteria are not met.
LD₅₀ = 5 400 mg/kg (rat, OECD 401).

Dermal Based on available data, the classification criteria are not met.
LD₅₀ > 2 000 mg/kg (rabbit, OECD 402).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

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

Primary dermal irritation index PDII = 0.3 (max. 8) (rabbit, 72 h, OECD 404).

Serious eye damage/irritation

The substance is classified as eye irritant.

Overall irritation score (not fully reversible after 14 days) (rabbit, 72 h, OECD 405).

Respiratory or skin sensitisation

Data for the substance are not available.

Germ cell mutagenicity

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

In vitro:

Positive (OECD 487).

Negative (OECD 471).

In vivo:

Negative (EU Method B.22, OECD 475).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

Data for the substance are not available.

STOT – single exposure

The substance may cause respiratory irritation.

STOT – repeated exposure

Data for the substance are not available.

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

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Disodium metasilicate	ES: 229-912-9
Acute toxicity	
Oral	Based on available data, the classification criteria are not met. LD ₅₀ = 1 152 - 1 349 mg/kg (rat, female, toxicity based on corrosive effect, literature).
Dermal	Based on available data, the classification criteria are not met. LD ₅₀ > 5 000 mg/kg (rat, EPA OPPTS 870.1200).
Inhalation	Based on available data, the classification criteria are not met. LC ₅₀ > 2.06 mg/l (vapour, rat, 4 hrs, toxicity based on corrosive effect, EPA OPPTS 870.1300).
Skin corrosion/irritation	
The substance is classified as skin corrosion in category 1B. Corrosive - primary dermal irritation index (PDII) = 8 (not reversible), mean erythema score = 4 (not reversible) and edema = 4 (not reversible) (humidified, rabbit, OECD 404). Irritant - primary dermal irritation index (PDII) = 3.67, mean erythema score = 2.33 and edema = 1.33 (50% aqueous solution, rabbit, OECD 404). Slightly irritant - primary dermal irritation index (PDII) = 1.22, mean erythema score = 1.11 and edema = 0.11 (10% aqueous solution, rabbit, OECD 404).	
Serious eye damage/irritation	
The substance is classified as seriously damaging to the eyes.	
Respiratory or skin sensitisation	
Based on available data, the classification criteria are not met. Not skin sensitising (mouse, OECD 429).	
Germ cell mutagenicity	
Based on available data, the classification criteria are not met. Negative (OECD 471, OECD 473, OECD 476).	
Carcinogenicity	
Data for the substance are not available.	
Reproductive toxicity	
Based on available data, the classification criteria are not met. NOAEL > 159 mg/kg/day (mortality, rat, female, oral, generation P0).	
STOT – single exposure	
The substance may cause respiratory irritation.	
STOT – repeated exposure	
Based on available data, the classification criteria are not met. NOAEL > 227 - 237 mg/kg/day (rat, 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.	
Amines, C12-18 (even numbered)-alkyldimethyl, N-oxides	CAS: 68955-55-5
Acute toxicity	

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Oral The substance is classified in category 4.
LD₅₀ = 1 236 mg/kg (rat, male, OECD 401).
LD₅₀ = 846 mg/kg (rat, female, OECD 401).

Dermal Based on available data, the classification criteria are not met.
LD₅₀ > 2 000 mg/kg (rabbit, OECD 402).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin irritant.

Mean erythema score = 2; 2; 2.7 (fully reversible after 14 days) and oedema = 0; 0.6; 1 (fully reversible after 14 days) (rabbit, 72 hrs., OECD 404).

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes.

Irreversible effects on the eyes after 35 days (rabbit, 72 hours, 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, EU method B.17).

Carcinogenicity

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

NOEL = 0.2% of the substance in the diet (rat, oral, OECD 451).

Reproductive toxicity

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

NOEL = 100 mg/kg/day (reproductive and developmental toxicity, rat, oral, generation P0, OECD 422).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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

NOAEL = 40 mg/kg/day (systemic toxicity, oral, OECD 422).

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C.

Propan-2-ol

CAS: 67-63-0

Acute toxicity

Oral Based on available data, the classification criteria are not met.
LD₅₀ = 5 840 mg/kg (rat, OECD 401).

Dermal Based on available data, the classification criteria are not met.
LD₅₀ = 16.4 ml/kg (12 792 mg/kg at a density of 0.78 g/cm³, rabbit, OECD 402).

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Inhalation Based on available data, the classification criteria are not met.
LC₅₀ > 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 mm²/s or less at 40 °C.

11.2. Information on 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 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

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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

$\Sigma < 1.5$

Chronic aquatic toxicity

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

Sum of concentration	EqNOEC _m	Classification	M-factor	
6.5 wt. %	0.155 mg/l	Aquatic Chronic 3; H412	not relevant	
category	1	2	3	4
Σ	0	0	< 6.5	< 6.5

Phosphoric acid

CAS: 7664-38-2

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

Fish

Mean lethal pH, 96 hrs., *Leopomis macrochirus*: pH = 3 - 3.25 (mortality).

Crustaceans

EC₅₀, 48 hrs., *Daphnia Magna*: > 100 mg/l (immobility, OECD 202).

NOEC, 48 hrs., *Daphnia Magna*: 56 mg/l (immobility, OECD 202).

Algae

EC₅₀, 72 hrs., *Desmodesmus subspicatus*: > 100 mg/l (growth rate, OECD 201).

NOEC, 72 hrs, *Desmodesmus subspicatus*: 100 mg/l (growth rate, OECD 201).

2-Butoxyethanol

CAS: 111-76-2

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

Fish

LC₅₀, 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

EC₅₀, 48 hrs., *Daphnia Magna*: 1 550 mg/l (mobility, OECD 202).

EC₁₀, 21 d., *Daphnia Magna*: 1 800 mg/l (mortality, OECD 202).

NOEC, 21 d., *Daphnia Magna*: 100 mg/l (reproduction, OECD 202).

Algae

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EC₅₀, 72 hrs., Selenastrum capricornutum: 911 mg/l (biomass, OECD 201).
EC₅₀, 72 hrs., Selenastrum capricornutum: 1 840 mg/l (growth rate, OECD 201).
EC₁₀, 72 hrs., Selenastrum capricornutum: 308 mg/l (biomass, OECD 201).
EC₁₀, 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).

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

CAS: 85536-14-7

The substance is classified as Aquatic Chronic 3; H412.

Fish

LC₅₀, 96 hrs., Pimephales promelas: 1.67 mg/l (mortality, USEPA 850.1075).
NOEC, 72 d., Oncorhynchus mykiss: 0.23 mg/l (read-across (sodium 4-undecylbenzenesulfonate), mortality, OECD 210).

Crustaceans

EC₅₀, 48 hrs., Daphnia Magna: 2.9 mg/l (read-across (sodium 4-undecylbenzenesulfonate), mobility, OECD 202).
NOEC, 21 d., Daphnia Magna: 1.18 mg/l (read-across (sodium 4-undecylbenzenesulfonate), OECD 211).

Algae

EC₅₀, 72 hrs, Pseudokirchneriella subcapitata: 235 mg/l (read-across (sodium 4-undecylbenzenesulfonate), growth rate, OECD 201).
NOEC, 72 hrs, Pseudokirchneriella subcapitata: 13.1 mg/l (read-across (sodium 4-undecylbenzenesulfonate), growth rate, OECD 201).

Citric acid

ES: 201-069-1

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

Fish

LC₅₀, 48 hrs., Leuciscus idus: 440 - 760 mg/l (mortality, OECD 203)
LC₀, 48 hrs., Leuciscus idus: 200 - 620 mg/l (mortality, OECD 203)

Crustaceans

LC₅₀, 24 hrs., Daphnia Magna: 1 535 mg/l (mortality)
LC₀, 24 hrs., Daphnia Magna: 1 206 mg/l (mortality)

Algae

NOEC, 8 d., Scenedesmus quadricauda: 425 mg/l (cell density)

Disodium metasilicate

ES: 229-912-9

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

Fish

LC₅₀, 96 hrs., Danio rerio: 210 mg/l (OECD 203).

Crustaceans

EC₅₀, 48 hod., Daphnia Magna: 1 700 mg/l (OECD 202).

Algae

EC₅₀, 72 hrs., Desmodesmus subspicatus: 207 mg/l (biomass, DIN 38412).
EC₀, 72 hrs., Desmodesmus subspicatus: > 345.4 mg/l (growth rate, DIN 38412).

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Amines, C12-18 (even numbered)-alkyldimethyl, N-oxides	CAS: 68955-55-5
The substance is classified as Aquatic Acute 1; H400 (M = 1) and Aquatic Chronic 2; H411.	
Fish	
LC ₅₀ , 96 hrs., Oncorhynchus mykiss: 2.95 mg/l (mortality, OECD 203). NOEC, 15 d., Pimephales promelas: 0.495 mg/l (survival and mean length, EPA OPPTS 850.1500).	
Crustaceans	
EC ₅₀ , 48 hrs., Daphnia Magna: 2.4 mg/l (mortality, OECD 202). NOEC, 21 d., Daphnia Magna: 0.7 mg/l (survival and reproduction, OECD 211).	
Algae	
EC ₅₀ , 72 hrs., Scenedesmus quadricauda: 0.24 mg/l (growth rate, OECD 201). NOEC, 72 hrs., Scenedesmus quadricauda: 0.075 mg/l (growth rate, OECD 201).	
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	
12.2. Persistence and degradability	
Mixture	
Data for the mixture are not available.	
Phosphoric acid	CAS: 7664-38-2
Not determined, it is an inorganic substance.	
2-Butoxyethanol	CAS: 111-76-2
Readily biodegradable: 90.4 % after 28 days (CO ₂ evolution, OECD 301 B).	
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	CAS: 85536-14-7
Readily biodegradable: 94 % after 28 days (removal of dissolved organic carbon, OECD 301 A).	
Citric acid	ES: 201-069-1
Readily biodegradable: 100 % after 19 days (removal of dissolved organic carbon, OECD 301 E).	
Disodium metasilicate	ES: 229-912-9
Not determined, it is an inorganic substance.	
Amines, C12-18 (even numbered)-alkyldimethyl, N-oxides	CAS: 68955-55-5
Readily biodegradable: 80 % after 28 days.	
Propan-2-ol	CAS: 67-63-0
Readily biodegradable: 53 % after 5 days (CO ₂ evolution, OECD 301 B).	

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12.3. Bioaccumulative potential

Mixture	
Data for the mixture are not available.	
Phosphoric acid	CAS: 7664-38-2
Not determined, it is an inorganic substance.	
2-Butoxyethanol	CAS: 111-76-2
log Pow = 0.81 (25 °C, pH = 7, shake-flask method).	
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	CAS: 85536-14-7
log Pow = 2.2 (23 °C, pH = 3.7, OECD 123).	
Citric acid	ES: 201-069-1
Not determined.	
Disodium metasilicate	ES: 229-912-9
Not determined, it is an inorganic substance.	
Amines, C12-18 (even numbered)-alkyldimethyl, N-oxides	CAS: 68955-55-5
log Pow = 1.85 (C12, calculation). log Pow = 2.69 (C14, calculation).	
Propan-2-ol	CAS: 67-63-0
log Pow = 0.05 (25 °C).	

12.4. Mobility in soil

Mixture	
Data for the mixture are not available.	
Phosphoric acid	CAS: 7664-38-2
Not determined, it is an inorganic substance.	
2-Butoxyethanol	CAS: 111-76-2
Data for the substance are not available.	
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	CAS: 85536-14-7
Not determined.	
Citric acid	ES: 201-069-1
Not determined.	
Disodium metasilicate	ES: 229-912-9
Not determined, it is an inorganic substance.	
Amines, C12-18 (even numbered)-alkyldimethyl, N-oxides	CAS: 68955-55-5
Koc = 307 - > 2 113 (according to the type of soil, OECD 106).	
Propan-2-ol	CAS: 67-63-0
Data for the substance are not available.	

12.5. Results of PBT and vPvB assessment

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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

07 06 01* - aqueous washing liquids and mother liquors (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

14.1. UN number or ID number

UN 3265

14.2. UN proper shipping name

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphoric acid, Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.).

14.3. Transport hazard class(es)

8

14.4. Packing group

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III

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	C3
Labels	8
Hazard identification code	80
Tunnel restriction code	E (ADR), - (RID).
Limited quantities	5 l
Excepted quantities	Maximum net quantity per inner packaging: 30 ml. Maximum net quantity per outer packaging: 1 000 ml.
Transport category	3

Additional data for IMDG

Emergency Schedules (EmS)	F-A/S-B
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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.

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

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Change in classification of butyl glycol.

Key or legend to abbreviations and acronyms

Acute Tox. 3	Acute toxicity, cat. 3
Acute Tox. 4	Acute toxicity, cat. 4
Aquatic Acute 1	Acute aquatic hazard, cat. 1
Aquatic Chronic 2	Chronic aquatic hazard, cat. 2
Aquatic Chronic 3	Chronic aquatic hazard, cat. 3
Eye Dam. 1	Serious eye damage, cat. 1
Eye Irrit. 2	Eye irritation, cat. 2
Flam. Liq. 2	Flammable liquid, cat. 2
Met. Corr. 1	Substance or mixture corrosive to metals, cat. 1
Skin Corr. 1B	Skin corrosion, cat. 1B
Skin Corr. 1C	Skin corrosion, cat. 1C
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
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

H225	Highly flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.

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H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.

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.