

SAFETY DATA SHEET

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

KRYSTAL WC acidic for ceramics

Date of revision: 24. 10. 2023

Version: 4.0

Replaced version from: 05. 01. 2022

Date of issue: 18. 07. 2014

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

1.1. Product identifier

Product Name

KRYSTAL WC acidic for ceramics

UFI code

UFI: 91R0-F0GS-C00T-3HAS

Product code

VBCAMXXXX97

Mixture description

Water solution.

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

Identified uses

Liquid acidic toilet cleaner for direct use for ceramic surfaces.
Consumer and professional use.

Uses advised against

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

1.3. Details of the supplier of the safety data sheet

CORMEN s.r.o.

Věchnov 73

593 01

Czech Republic

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

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Met. Corr. 1; H290

Skin Corr. 1; 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

May be corrosive to metals. 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 Alcohols, C12-14, ethoxylated, Etidronic acid, Hydrochloric acid.

Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P102 Keep out of reach of children.

P234 Keep only in original packaging.

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% non-ionic surfactants, phosphonates, perfumes, HEXYL CINNAMAL, preservation agents (BENZYL ALCOHOL, METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE).

2.3. Other hazards

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Mixture do 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 do 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
Alcohols, C12-14, ethoxylated			
CAS Number	68439-50-9	< 2.6	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412
EC Number	not given		
Index Number	not given		
Registration Number	is not subject to registration, it is a polymer		
Etidronic acid			
CAS Number	2809-21-4	< 1.5	Met. Corr. 1; H290 Acute Tox. 4; H302 Eye Dam. 1; H318
EC Number	220-552-8		
Index Number	not given		
Registration Number	01-2119510391-53-XXXX		
Hydrochloric acid			
CAS Number	7647-01-0	< 0.8	Met. Corr. 1; H290 Skin Corr. 1B; H314 STOT SE 3; H335
EC Number	231-595-7		
Index Number	017-002-01-X		
Registration Number	01-2119484862-27-XXXX		
The substance has specific concentration limits:			
Skin Corr. 1B; H314		C ≥ 25 %	
Skin Irrit. 2; H315		10 % ≤ C < 25 %	
Eye Irrit. 2; H319		10 % ≤ C < 25 %	
STOT SE 3; H335		C ≥ 10 %	
Met. Corr. 1; H290		C ≥ 0.1 %	
2-Butoxyethanol; Ethylene glycol monobutyl ether; Butyl cellosolve			
CAS Number	111-76-2	≤ 0.015	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		

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Ethanediol; Ethylene glycol

CAS Number 107-21-1

EC Number 203-473-3

Index Number 603-027-00-1

Registration Number not yet available

< 0.001

Acute Tox. 4; H302

STOT RE 2; H373

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

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

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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, chlorine oxides, hydrogen chloride and products of incomplete combustion.

5.3. Advice for firefighters

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

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

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

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Personal protection see. Section 8. Ensure good ventilation to prevent formation of vapor 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. Do not store together with incompatible materials (see subsection 10.5), food, drink and feed.

7.3. Specific end use(s)

Ceramic sanitary surfaces, WC.

Direct use in concentrated form. Leave it react and rinse thoroughly with water.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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8.1.1. Exposure limit value

Hydrochloric acid - hydrogen chlorine CAS: 7647-01-0

Limit values - Eight hours	Limit values - Short-term	Note
8 mg/m ³ 5 ppm	15 mg/m ³ 10 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

Ethandiol CAS: 107-21-1

Limit values - Eight hours	Limit values - Short-term	Note
52 mg/m ³ 20 ppm	104 mg/m ³ 40 ppm	Skin

8.1.2. Biological limit values

Not determined in EU.

8.1.3. DNEL and PNEC values

Etidronic acid CAS: 2809-21-4

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	12 mg/m ³
Workers	Dermal	Systemic effect	Long term	34 mg/kg/den
General population	Inhalation	Systemic effect	Long term	2.95 mg/m ³
General population	Dermal	Systemic effect	Long term	17 mg/kg/den
General population	Oral	Systemic effect	Long term	1.7 mg/kg/den
General population	Oral	Systemic effect	Acute/short term	1.7 mg/kg/den

PNEC

Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.068 mg/l	0.007 mg/l	not given	not given	40 mg/l

PNEC

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
136 mg/kg	13.6 mg/kg	no effect	10 mg/kg	3.7 mg/kg food

Hydrochloric acid CAS: 7647-01-0

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Local effect	Long term	8 mg/m ³
Workers	Inhalation	Local effect	Acute/short term	15 mg/m ³
General population	Inhalation	Local effect	Long term	8 mg/m ³
General population	Inhalation	Local effect	Acute/short term	15 mg/m ³

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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/m³
Workers	Inhalation	Systemic effect	Acute/short term	1 091 mg/m³
Workers	Inhalation	Local effect	Acute/short term	246 mg/m³
General population	Inhalation	Systemic effect	Long term	59 mg/m³
General population	Inhalation	Systemic effect	Acute/short term	426 mg/m³
General population	Inhalation	Local effect	Acute/short term	147 mg/m³
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				

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

Suitable gloves material:

nitrile rubber, breakthrough time: 480 min., glove thickness: 0.35 mm

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

fluoro rubber, breakthrough time: 480 min., glove thickness: 0.4 mm

polyvinyl chloride, breakthrough time: 480 min., glove thickness: 0.5 mm

Unsuitable gloves material: leather

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 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Mixture

Physical state	Liquid (gel).
Colour	Blue.
Odour	Fresh, floral, woody.
Melting point/freezing point	Not determined.
Boiling point or initial boiling point and boiling range	Not determined.
Flammability	Not determined.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	Not determined.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined, the mixture does not contain self-reactive substances or organic peroxides.
pH	0.5 - 1.6.

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<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>	Not determined.
<i>Density and/or relative density</i>	1.037 g/cm ³ (20 °C)
<i>Relative vapour density</i>	Not determined.
<i>Particle characteristics</i>	Does not apply to liquid.
Etidronic acid CAS: 2809-21-4	
<i>Physical state</i>	Solid.
<i>Colour</i>	Not determined.
<i>Odour</i>	Not determined.
<i>Melting point/freezing point</i>	≥ 450 °C (EU method A.1).
<i>Boiling point or initial boiling point and boiling range</i>	Not determined.
<i>Flammability</i>	The substance is not classified as flammable (EU method A.10).
<i>Lower explosion limit</i>	Does not apply to solid.
<i>Upper explosion limit</i>	Does not apply to solid.
<i>Flash point</i>	Does not apply to solid.
<i>Auto-ignition temperature</i>	Does not apply to solid.
<i>Decomposition temperature</i>	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
<i>pH</i>	Not determined.
<i>Kinematic viscosity</i>	Does not apply to solid.
<i>Solubility</i>	690 g/l (20 °C, literature).
<i>Partition coefficient n-octanol/water (log value)</i>	log Pow = -3.5 (literature).
<i>Vapour pressure</i>	Not determined, the substance has melting point higher than 300 °C.
<i>Density and/or relative density</i>	1 450 - 1 490 kg/m ³ (literature).
<i>Relative vapour density</i>	Does not apply to solid.
<i>Particle characteristics</i>	Not determined.
Hydrochloric acid CAS: 7647-01-0	
<i>Physical state</i>	Liquid.
<i>Colour</i>	Colourless.
<i>Odour</i>	Pungent.
<i>Melting point/freezing point</i>	Not determined.

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Boiling point or initial boiling point and boiling range	-85.5 °C (hydrogen chloride, literature).
Flammability	Not determined.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	Not determined, it is an inorganic substance.
Auto-ignition temperature	Not determined.
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	Not determined.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure	Not determined.
Density and/or relative density	1.17 - 1.18 g/ml (concentration 34.1 - 36.2 %, CIPAC Method MT 3.2.1).
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).

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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

Data for the mixture are not available.

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

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

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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 classified as corrosive to metal category 1 based on the general/specific concentration limits of 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.

Etidronic acid

CAS: 2809-21-4

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

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The substance is not classified as flammable, burning time = 2 minutes (EU method A.10).

Self-reactive substances and mixtures

Data for the substance are not available.

The substance is not classified as self-reactive substances.

Pyrophoric liquids

It is not liquid.

Pyrophoric solids

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

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

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is soluble in water and forms a stable mixture with it.

Oxidising liquids

It is not liquid.

Oxidizing solids

Data for the substance are not available.

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

Organic peroxides

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.

The substance is 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.

Hydrochloric acid

CAS: 7647-01-0

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.

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<i>Oxidising gases</i>	
It is not gas.	
<i>Gases under pressure</i>	
It is not gas.	
<i>Flammable liquids</i>	
Data for the substance are not available. It is aqueous solution of inorganic substance.	
<i>Flammable solids</i>	
It is not solid.	
<i>Self-reactive substances and mixtures</i>	
Data for the substance are not available. The substance does not contain chemical groups associated with explosive or self-reactive properties.	
<i>Pyrophoric liquids</i>	
Data for the substance are not available. The substance is stable in air, there is no spontaneous ignition.	
<i>Pyrophoric solids</i>	
It is not solid.	
<i>Self-heating substances and mixtures</i>	
Data for the substance are not available. The substance is not classified as self-heating.	
<i>Substances and mixtures, which emit flammable gases in contact with water</i>	
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.	
<i>Oxidising liquids</i>	
Data for the substance are not available. It is an inorganic substance does not contain chemical groups associated with oxidising properties.	
<i>Oxidizing solids</i>	
It is not solid.	
<i>Organic peroxides</i>	
Data for the substance are not available. The substance does not contain a bivalent group -O-O- with at least one organic radical.	
<i>Corrosive to metals</i>	
Data for the substance are not available. The substance is classified as corrosive to metal category 1.	
<i>Desensitised explosives</i>	
Data for the substance are not available. The substance does not contain chemical groups associated with explosive properties.	
2-Butoxyethanol	CAS: 111-76-2

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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.

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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.
Dynamic viscosity	690 - 900 mPa.s (25 °C)

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is stable under normal conditions of use. There aren't any hazardous reaction.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions aren't known under normal conditions of use.

10.4. Conditions to avoid

Protect from temperatures below 0 °C.

10.5. Incompatible materials

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, chlorine oxides, hydrogen chloride and products of incomplete combustion.

SECTION 11: Toxicological information

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

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Mixture	
Acute toxicity	
The mixture is not classified as toxic for all routes of exposure.	
Oral	Data for the mixture are not available. ATE _{mixture} > 2 000 mg/kg (estimate, low concentration of substances classified as toxic oral route of exposure).
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. ATE _{mixture} > 20 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 1 based on pH value (0.5 - 2) and content of hydrochloric acid and surfactant.	
Serious eye damage/irritation	
Data for the mixture are not available. The mixture is classified as causes serious eye damage in category 1 based on pH value (0.5 - 2) and content of hydrochloric acid and surfactant.	
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	

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KRYSTAL WC acidic for ceramics

Data for the mixture are not available.

The mixture is not classified as toxic for specific target organs in a repeated exposure according to the general/specific concentration limits of substance(s).

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.

Etidronic acid

CAS: 2809-21-4

Acute toxicity

Oral The substance is classified in category 4.
LD₅₀ = 1 878 mg/kg (rat, OECD 401).

Dermal Based on available data, the classification criteria are not met.
LD₅₀ > 3 505 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.

Mean erythema score = 0 and oedema = 0 (rabbit, 72 hrs., OECD 404).

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes.

Maximum irritation score = ca. 90 of 110 (irreversible, rabbit, 72 hours, 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 476, OECD 487).

Carcinogenicity

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

NOAEL ≥ 493 mg/kg/day (rat, female, oral, OECD 453).

NOAEL ≥ 384 mg/kg/day (rat, female, oral, OECD 453).

Reproductive toxicity

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

NOAEL = 92 mg/kg/day (rat, female, oral, generation P0, OECD 416).

NOAEL = 92 mg/kg/day (rat, female, oral, generation F1, OECD 416).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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KRYSTAL WC acidic for ceramics

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

NOAEL = 34 mg/kg/day (juvenile rats, rat, male, oral, 90 d., OECD 408).

LOAEL = 139 mg/kg/day (anemia, rat, male, oral, 90 d., 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.

Hydrochloric acid

CAS: 7647-01-0

Acute toxicity

Oral Data for the substance are not available.

Dermal Data for the substance are not available.

Inhalation Data for the substance are not available.

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

LC₅₀ = 40 989 ppm (HCl gas, male, 5 min.).

LC₅₀ = 4 701 ppm (HCl gas, male, 30 min.).

LC₅₀ = 45.6 ppm (aerosol, male, 5 min.).

LC₅₀ = 8.3 ppm (aerosol, male, 30 min.).

Skin corrosion/irritation

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

Not skin corrosive - tissue viability = 93.3% (10% solution, exposure: 3 minutes, human skin model, OECD 431).

Skin corrosive - tissue viability = 27.6%, 5.4% (10% solution, exposure: 60, 240 minutes, human skin model, OECD 431).

Skin corrosive - tissue viability = 30.4%, 6.5%, 6% (25% solution, exposure: 3, 60, 240 minutes, human skin model, OECD 431).

Skin corrosive - tissue viability = 9.5%, 4.1%, 6.6% (30% solution, exposure: 3, 60, 240 minutes, human skin model, OECD 431).

Not skin irritant - tissue viability = 106.8%, 99.7%, 82%, 101% (1, 3, 10, 15% solution, human skin model, OECD 439).

Positive result - tissue viability = 41.1%, 32.2%, 82%, 101% (17.5, 25% solution, human skin model, OECD 439).

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 (guinea pig, OECD 406).

Germ cell mutagenicity

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

Negative (mitotic recombination assay with *Saccharomyces cerevisiae*).

Positive (mammalian cell gene mutation assay, mammalian chromosome aberration test).

Carcinogenicity

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

NOAEL < 10 ppm (HCl gas, rat, male).

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KRYSTAL WC acidic for ceramics

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 respiratory irritation.

STOT – repeated exposure

Based on available data, the classification criteria are not met.
NOAEL = 20 ppm (mortality, clinical signs, food consumption, body weight and organ weight, rat, inhalation, HCl gas, OECD 413).
LOAEL = 50 ppm (mortality, clinical signs, food consumption, body weight and organ weight, rat, inhalation, HCl gas, OECD 413).

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.

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

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KRYSTAL WC acidic for ceramics

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

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.

11.2. Information on other hazards

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

category	1	2	3	4
Σ	0	0	< 2.6	< 2.6

Etidronic acid

CAS: 2809-21-4

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The substance is not classified as hazardous for the aquatic environment.	
Fish	
LC ₅₀ , 96 hrs., Oncorhynchus mykiss: 195 mg/l (mobility, OECD 204). NOEC, 14 d., Oncorhynchus mykiss: 60 mg/l (behaviour, loss of equilibrium, OECD 204).	
Crustaceans	
EC ₅₀ , 48 hrs., Daphnia Magna: 527 mg/l (mobility, OECD 202). NOEC, 28 d., Daphnia Magna: 60 mg/l (adult survival and number of pups, EPA 66013-75-009).	
Algae	
Data for the substance are not available.	
Hydrochloric acid	CAS: 7647-01-0
The substance is not classified as hazardous for the aquatic environment.	
Fish	
LC ₀ , 96 hrs., Lepomis macrochirus: pH = 3.5 (mortality) LC ₅₀ , 96 hrs., Lepomis macrochirus: pH = 3.25 - 3.5 (mortality) LC ₁₀₀ , 96 hrs., Lepomis macrochirus: pH = 3 (mortality)	
Crustaceans	
EC ₅₀ , 48 hrs., Daphnia Magna: pH = 4.92 (mobility, OECD 202) NOEC, 48 hrs., Daphnia Magna: pH = 5.5 (mobility, OECD 202) LOEC, 48 hrs., Daphnia Magna: pH = 5 (mobility, OECD 202)	
Algae	
EC ₅₀ , 72 hrs., Chlorella vulgaris: pH = 4.7 (growth rate, OECD 201) EC ₅₀ , 72 hrs., Chlorella vulgaris: pH = 4.82 (biomass, OECD 201) NOEC, 72 hrs., Chlorella vulgaris: pH = 5 (growth rate, OECD 201)	
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).	

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12.2. Persistence and degradability

Mixture

Data for the mixture are not available.

Etidronic acid

CAS: 2809-21-4

Not readily biodegradable: BOD5/COD = 23 % (OECD 301 D).

BOD - Biological Oxygen Demand.

COD - Chemical Oxygen Demand.

Hydrochloric acid

CAS: 7647-01-0

Not determined, it is an inorganic substance.

2-Butoxyethanol

CAS: 111-76-2

Readily biodegradable: 90.4 % after 28 days (CO₂ evolution, OECD 301 B).

12.3. Bioaccumulative potential

Mixture

Data for the mixture are not available.

Etidronic acid

CAS: 2809-21-4

BCF < 7 (Cyprinus carpio, dose 0.06 mg/l).

BCF < 2 (Cyprinus carpio, dose 0.6 mg/l).

log Pow = -3.5 (literature).

Hydrochloric acid

CAS: 7647-01-0

Not determined, it is an inorganic substance.

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.

Etidronic acid

CAS: 2809-21-4

log Koc = 4.22.

Hydrochloric acid

CAS: 7647-01-0

Not determined, it is an inorganic substance.

2-Butoxyethanol

CAS: 111-76-2

Data for the substance are not available.

12.5. Results of PBT and vPvB assessment

Mixture do 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

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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 do 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 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

Metal corrosion.

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 3264.

14.2. UN proper shipping name

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid).

14.3. Transport hazard class(es)

8.

14.4. Packing group

III.

14.5. Environmental hazards

It is not dangerous for the environment during transport.

14.6. Special precautions for user

Not given.

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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	C1.
Labels	8.
Hazard identification code	80.
Tunnel restriction code	E (ADR), - (RID).
Limited quantities	5l.
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

Changing the label and composition of the mixture. Change in classification of butyl glycol and substance with CAS: 68439-50-9.

Key or legend to abbreviations and acronyms

Acute Tox. 3	Acute toxicity, cat. 3
Acute Tox. 4	Acute toxicity, cat. 4

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Aquatic Chronic 3	Chronic aquatic hazard, cat. 3
Eye Dam. 1	Serious eye damage, cat. 1
Eye Irrit. 2	Eye irritation, cat. 2
Met. Corr. 1	Substance or mixture corrosive to metals, cat. 1
Skin Corr. 1B	Skin corrosion, cat. 1B
Skin Corr. 1	Skin corrosion, cat. 1
Skin Irrit. 2	Skin irritation, cat. 2
STOT RE 2	Specific target organ toxicity - repeated exposure, cat. 2
STOT SE 3	Specific target organ toxicity - single exposure, cat. 3
ATE	Acute Toxicity Estimate
bw	body weight
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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
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.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
P102	Keep out of reach of children.

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P234	Keep only in original packaging.
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.