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

### **KRYSTAL WC cleaner ECO**

Date of revision: 24. 01. 2022 Version: 5.0

Replaced version from: 15. 05. 2018

Date of issue: **09. 04. 2013** 

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

#### 1.1. Product identifier

**Product Name** 

#### **KRYSTAL WC cleaner ECO**

UFI code

UFI: 3HF0-C05G-100T-MQND

Product code

VBCEXXXX99

Mixture description

An aqueous solution.

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

#### Identified uses

Liquid acidic cleaner ECO line.

#### 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 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.

### 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	Conten	t Classification according
	substance	wt. %	to 1272/2008/EC
Hydrochloric acid			
CAS Number	7647-01-0		Met. Corr. 1; H290
EC Number	231-595-7	< 1.5	Skin Corr. 1B; H314
Index Number	017-002-01-X	< 1.5	Eye Dam. 1; H318
Registration Number	01-2119475328-30-XXXX		STOT SE 3; H335
The substance has sp	pecific concentration limits:		
Skin Corr. 1B; H314		C ≥ 25 %	
Eye Dam. 1; H318		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 %	

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.

#### Eve 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

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

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

Are not known.

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

Treat symptomatically and supportively.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media

Small fire:

Carbon dioxide CO<sub>2</sub>, 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, chlorine, 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

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

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

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

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

### 7.2. Conditions for safe storage, including any incompatibilities

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

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

#### 7.3. Specific end use(s)

Removes rust, limescale and long-term deposits of mechanical impurities.

Apply undiluted directly into the toilet bowl.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Exposure limit value

Hydrochloric acid - hydrogen chlorine C	CAS: 7647-01-0
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Limit values - Eight hours Limit values - Short-term Note 8 mg/m³ 5 ppm 15 mg/m³ 10 ppm -

#### 8.1.2. Biological limit values

Not determined in EU.

#### 8.1.3. DNEL and PNEC values

H	ydrochloric 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 <sup>3</sup>
Workers	Inhalation	Local effect	Acute/short term	15 mg/m <sup>3</sup>
General population	Inhalation	Local effect	Long term	8 mg/m <sup>3</sup>
General population	Inhalation	Local effect	Acute/short term	15 mg/m <sup>3</sup>

#### PNEC - not yet available

### 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.

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### 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.

#### Skin protection - hand protection

Wear protective gloves.

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

#### Skin protection - other

Suitable protective working clothing and footwear.

#### Respiratory protection

Not necessary in case of compliance concentration limits (if they were exceeded, use a respirator against vapour). 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 stateLiquid.ColourLight green.OdourCharacteristic.

Melting point/freezing point Not determined.

Boiling point or initial boiling point and boiling 100 °C.

range

Flammability Not determined, it is an aqueous solution which

does not contain any flammable substances or the concentration of flammable substance(s) is lower

than the limit for inclusion in Section 3.

Lower explosion limit Not determined, it is an aqueous solution which

does not contain any flammable substances or the concentration of flammable substance(s) is lower

than the limit for inclusion in Section 3.

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Upper explosion limit Not determined, it is an aqueous solution which

does not contain any flammable substances or the concentration of flammable substance(s) is lower

than the limit for inclusion in Section 3.

Flash point > 100 °C

Auto-ignition temperature Not determined.

Decomposition temperature Not determined, the mixture does not contain self-

reactive substances or organic peroxides or other

substances which may decompose.

**pH** 1.

Kinematic viscosity

Not determined, the mixture does not contain a

substance classified as aspiration toxic, or the sum of the concentrations of substances classified as

aspiration toxic is less than 10 wt. %.

**Solubility** Miscible.

Partition coefficient n-octanol/water (log value) Does not apply to mixture.

Vapour pressure23 hPaDensity and/or relative density $D_4^{20} = 1.0.$ 

Relative vapour density Not determined.

Particle characteristics Does not apply to liquid.

Hydrochloric acid CAS: 7647-01-0

Physical state Liquid.

ColourColourless.OdourPungent.

Melting point/freezing point Not determined.

Boiling point or initial boiling point and boiling

range

-85.05 °C (hydrogen chloride, literature).

FlammabilityNot determined.Lower explosion limitNot determined.Upper explosion limitNot 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, it is an aqueous solution.

Partition coefficient n-octanol/water (log value) Not determined, it is an inorganic substance.

Vapour pressure Not determined.

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**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.

#### 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

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

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### **KRYSTAL WC cleaner ECO**

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 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.

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.

#### Oxidising gases

It is not gas.

### Gases under pressure

It is not gas.

#### Flammable liquids

It is not liquid.

It is an aqueous solution of an inorganic substance.

#### Flammable solids

It is not solid.

#### Self-reactive substances and mixtures

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### **KRYSTAL WC cleaner ECO**

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

#### 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 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.

#### 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.

Not determined.

Formation of explosible dust/air mixtures Not determined, it is not a dust.

Acid/alkaline reserve Not determined.

Evaporation rate Not determined. Miscibility Conductivity Not determined.

Corrosiveness Not determined.

Gas group Not determined, it is not gas.

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### **KRYSTAL WC cleaner ECO**

Redox potentialNot determined.Radical formation potentialNot determined.Photocatalytic propertiesNot 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

Burning releases carbon oxides, chlorine, chlorine oxides, hydrogen chloride and products of incomplete combustion.

### **SECTION 11: Toxicological information**

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

### **Mixture**

#### Acute toxicity

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

Oral Data for the mixture are not available.

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

Section 3.

**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 does not contain substances classified as an acute toxicity by inhalation route of exposure or the concentration of substance(s) is lower than the limit for inclusion in

Section 3.

#### Skin corrosion/irritation

Data for the mixture are not available.

The mixture is classified as corrosive for skin in category 1 based on pH and hydrochloric acid and surfactant content.

#### Serious eye damage/irritation

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### **KRYSTAL WC cleaner ECO**

Data for the mixture are not available.

The mixture is classified as causes serious eye damage based on pH and hydrochloric acid and surfactant content.

### 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.

#### 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.

Hydrochloric acid CAS: 7647-01-0

#### Acute toxicity

OralData for the substance are not available.DermalData for the substance are not available.

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

 $LC_{50} = 40~989~ppm$  (HCl gas, male, 5 min.).  $LC_{50} = 4~701~ppm$  (HCl gas, male, 30 min.).  $LC_{50} = 45.6~ppm$  (aerosol, male, 5 min.).  $LC_{50} = 8.3~ppm$  (aerosol, male, 30 min.).

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### **KRYSTAL WC cleaner ECO**

#### 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, mammalian chromosome aberration test).

Positive (mammalian cell gene mutation assay).

#### Carcinogenicity

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

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

#### 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 mm<sup>2</sup>/s or less at 40 °C.

### 11.2. Information on other hazards

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### **KRYSTAL WC cleaner ECO**

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

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

### **SECTION 12: Ecological information**

### 12.1. Toxicity

#### **Mixture**

Data for the mixture are not available.

#### Acute aquatic toxicity

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

#### Chronic aquatic toxicity

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

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<sub>50</sub>, 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<sub>50</sub>, 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).

### 12.2. Persistence and degradability

#### **Mixture**

Data for the mixture are not available.

Hydrochloric acid CAS: 7647-01-0

Not determined, it is an inorganic substance.

#### 12.3. Bioaccumulative potential

#### Mixture

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### **KRYSTAL WC cleaner ECO**

Data for the mixture are not available.

Hydrochloric acid CAS: 7647-01-0

Not determined, it is an inorganic substance.

#### 12.4. Mobility in soil

#### **Mixture**

Data for the mixture are not available.

Hydrochloric acid CAS: 7647-01-0

Not determined, it is an inorganic substance.

#### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Endocrine disrupting properties

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

#### 12.7. Other adverse effects

Data are not available.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Disposal methods of the substance or mixture and the contaminated packaging

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

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

#### Possible waste code

20 01 29\* detergents containing hazardous substances, 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.

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

### **KRYSTAL WC cleaner ECO**

### **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

Ш

#### 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 C1
Labels 8
Hazard identification code 80

Tunnel restriction code E (ADR), - (RID).

Limited quantities 1 I

Excepted quantities Maximum net quantity per inner packaging: 30 ml.

Maximum net quantity per outer packaging: 500 ml.

Transport category 2

Additional data for IMDG

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

### **SECTION 15: Regulatory information**

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

### **KRYSTAL WC cleaner ECO**

## 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

Revision of all sections according to Commission Regulation (EU) 2020/878/EC. Change of the classification and labeling of the mixture. Change in the composition of the mixture in section 3 and related changes in the other sections. The values in sections 8, 9, 11 and 12 are added according to the registration dossier of compounds.

### Key or legend to abbreviations and acronyms

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. 1 Skin corrosion, cat. 1
Skin Corr. 1B Skin corrosion, cat. 1B
Skin Irrit. 2 Skin irritation, cat. 2

STOT SE 3 Specific target organ toxicity - single exposure, cat. 3

ADR Accord Dangereuses Route

CLP Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of subs-

tances 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

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

### **KRYSTAL WC cleaner ECO**

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
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.

### 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.

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