

SAFETY DATA SHEET

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

KRYSTAL Abrasive detergent

Date of revision: 05. 02. 2025

Version: 6.0

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

1.1. Product identifier

Product Name

KRYSTAL Abrasive detergent

UFI code

UFI: 34Y0-Y0XU-D00C-7G7M

Product code

Are not.

Mixture description

Water solution.

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

Identified uses

Cleaner - abrasive detergent.
Consumer use.

Uses advised against

Unsuitable for long-term use on polished surfaces and plastics.
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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Eye Dam. 1; H318

Aquatic Chronic 3; H412

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

The most important adverse physical, human health and environmental effects

Causes serious eye damage. Harmful to aquatic life with long lasting effects. May produce an allergic reaction.

2.2. Label elements

Hazard pictograms



Signal word

Danger.

Substances of the mixture to be placed on the label

Contains Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts, Amides, C8-18 (even numbered) and C18-unsatd., N-(hydroxyethyl).

Hazard statements

H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P273 Avoid release to the environment.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P501 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. **Dispose of the cleaned packaging without any residual product content in the sorted waste.**

Supplemental hazard information

EUH208 - Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
Composition according to regulation 648/2004/EC on detergents: ≥ 5 - < 15 % phosphates, anionic surfactants, < 5 % non-ionic surfactants, perfumes, LIMONENE, preservation agents (BENZYL ALCOHOL, METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE).

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
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts			
CAS Number	68411-30-3	1 - < 6	Acute Tox. 4; H302
EC Number	270-115-0		Skin Irrit. 2; H315
Index Number	not given		Eye Dam. 1; H318
Registration Number	01-2119489428-22-XXXX		Aquatic Chronic 3; H412 ATE _{oral} = 1 080 mg/kg bw
Amides, C8-18 (even numbered) and C18-unsatd., N-(hydroxyethyl)			
CAS Number	69227-24-3	1 - < 4	Skin Irrit. 2; H315
EC Number	931-330-1		Eye Dam. 1; H318
Index Number	not given		Aquatic Chronic 2; H411
Registration Number	01-2119490101-51-XXXX		
2-Aminoethanol; Ethanolamine			
CAS Number	141-43-5	< 0.2	Acute Tox. 4; H302
EC Number	205-483-3		Acute Tox. 4; H312
Index Number	603-030-00-8		Skin Corr. 1B; H314
Registration Number	01-2119486455-28-XXXX		Eye Dam. 1; H318
			Acute Tox. 4; H332
		STOT SE 3; H335	
		Aquatic Chronic 3; H412	
		ATE _{oral} = 1 089 mg/kg bw	
		ATE _{dermal} = 1 100 mg/kg bw	
		ATE _{inhalation} = 11 mg/L (vapour)	
The substance has specific concentration limits:			
STOT SE 3; H335		C ≥ 5 %	
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			

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		Acute Tox. 3; H301
		Acute Tox. 2; H310
		Skin Corr. 1C; H314
		Eye Dam. 1; H318
		Skin Sens. 1A; H317
CAS Number	55965-84-9	Acute Tox. 2; H330
EC Number	911-418-6	Aquatic Acute 1; H400
Index Number	613-167-00-5	Aquatic Chronic 1; H410
Registration Number	01-2120764691-48-XXXX	EUH071
		M=100
		M(Chronic)=100
		ATE _{oral} = 66 mg/kg bw
		ATE _{dermal} = 87 mg/kg bw
		ATE _{inhalation} = 0.17 mg/L (aerosol)
The substance has specific concentration limits:		
Skin Corr. 1C; H314	C ≥ 0.6 %	
Eye Dam. 1; H318	C ≥ 0.6 %	
Skin Irrit. 2; H315	0.06 % ≤ C < 0.6 %	
Eye Irrit. 2; H319	0.06 % ≤ C < 0.6 %	
Skin Sens. 1A; H317	C ≥ 0.0015 %	
Ethanediol; Ethylene glycol		
CAS Number	107-21-1	Acute Tox. 4; H302
EC Number	203-473-3	STOT RE 2; H373
Index Number	603-027-00-1	(kidney) (oral)
Registration Number	01-2119456816-28-XXXX	ATE _{oral} = 500 mg/kg bw
Full text of classifications and H-phrases: see section 16.		
SECTION 4: First aid measures		
In all cases keep the victim at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing. Protect yourself during rescue work.		
4.1. Description of first aid measures		
Inhalation		
Interrupt the exposure, move the person to the fresh air. In case of persistent nausea, seek medical advice.		
Skin contact		
Remove contaminated clothing, shoes, and wash affected skin thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. If the problem persists, seek medical advice.		
Eye contact		
Rinse with a gentle stream of water for at least 15 minutes. Keep your eyelids wide open with your thumb and forefinger. If the affected person is wearing contact lenses, remove them before rinsing eyes if it is easy. Seek medical advice.		

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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

The product is non-flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Solid streams of water may be ineffective.

5.2. Special hazards arising from the substance or mixture

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

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

5.3. Advice for firefighters

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

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

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

6.4. Reference to other sections

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

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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. 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

2-Aminoethanol

CAS: 141-43-5

Limit values - Eight hours		Limit values - Short-term		Note
2.5 mg/m ³	1 ppm	7.6 mg/m ³	3 ppm	skin

Ethanediol

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

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

CAS: 68411-30-3

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	

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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
Amides, C8-18 (even numbered) and C18-unsatd., N-(hydroxyethyl)				CAS: 69227-24-3
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	12.3 mg/m ³
Workers	Dermal	Systemic effect	Long term	3.5 mg/kg/day
General population	Inhalation	Systemic effect	Long term	2.18 mg/m ³
General population	Dermal	Systemic effect	Long term	1.25 mg/kg/day
General population	Oral	Systemic effect	Long term	1.25 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
30 µg/l	3 µg/l	30 µg/l	3 µg/l	830 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
4.85 mg/kg	0.485 mg/kg	no effect	0.953 mg/kg	no effect
2-Aminoethanol				CAS: 141-43-5
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	1 mg/m ³
Workers	Inhalation	Local effect	Long term	0.51 mg/m ³
Workers	Dermal	Systemic effect	Long term	3 mg/kg/day
General population	Inhalation	Systemic effect	Long term	0.18 mg/m ³
General population	Inhalation	Local effect	Long term	0.28 mg/m ³
General population	Dermal	Systemic effect	Long term	1.5 mg/kg/day
General population	Oral	Systemic effect	Long term	1.5 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.07mg/l	0.007 mg/l	0.028 mg/l	not given	100 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
0.357 mg/kg	0.036 mg/kg	no effect	1.29 mg/kg	no effect

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DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	0.02 mg/m ³
Workers	Inhalation	Local effect	Long term	0.04 mg/m ³
General population	Inhalation	Systemic effect	Long term	0.02 mg/m ³
General population	Inhalation	Local effect	Long term	0.04 mg/m ³
General population	Oral	Systemic effect	Long term	0.09 mg/kg/day
General population	Oral	Local effect	Long term	0.11 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
3.39 µg/l	3.39 µg/l	3.39 µg/l	3.39 µg/l	0.23 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
0.027 mg/kg	0.027 mg/kg	no effect	0.01 mg/kg	no effect
Ethanediol				CAS: 107-21-1
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Local effect	Long term	35 mg/m ³
Workers	Dermal	Systemic effect	Long term	106 mg/kg/day
General population	Inhalation	Local effect	Long term	7 mg/m ³
General population	Dermal	Systemic effect	Long term	53 mg/kg/day
PNEC - not 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.				
8.2.2. Individual protection measures, such as personal protective equipment				
Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream. Do not soiled protective equipment to wash, do not use solvents.				
Eye/face protection				
Wear safety goggles or face shield when manufacturing and handling the product (EN 166, EN 149+A1). It is not necessary for normal use, in case of possible contact with the eyes, use protective glasses or a face shield.				
Skin protection - hand protection				

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

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

Skin protection - other

Suitable protective working clothing and protective footwear.

Respiratory protection

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

Thermal hazards

In normal use 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 (suspension).
Colour	Light blue.
Odour	Characteristic.
Melting point/freezing point	Not determined.
Boiling point or initial boiling point and boiling range	100 °C
Flammability	Not determined.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
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	9.5
Kinematic viscosity	Not determined, the mixture does not contain a substance classified as aspiration toxic, or the sum of the concentrations of substances classified as aspiration toxic is less than 10 wt. %.
Solubility	Fully miscible.
Partition coefficient n-octanol/water (log value)	Does not apply to mixture.

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Vapour pressure	23 hPa
Density and/or relative density	1.3053 g/cm ³ (20 °C).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS: 68411-30-3	
Physical state	Solid.
Colour	Not determined.
Odour	Not determined.
Melting point/freezing point	> 350 °C (ISO 1218)
Boiling point or initial boiling point and boiling range	> 400 °C (ASTM E 737-76)
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	250 g/l (20 °C)
Partition coefficient n-octanol/water (log value)	1.4 (23 °C, pH = 6.1, OECD 123)
Vapour pressure	Not determined, the substance has melting point higher than 300 °C.
Density and/or relative density	D ₄ ²⁰ = 0.776 (OECD 109).
Relative vapour density	Does not apply to solid.
Particle characteristics	Not determined.
Amides, C8-18 (even numbered) and C18-unsatd., N-(hydroxyethyl) CAS: 69227-24-3	
Physical state	Solid.
Colour	Yellow.
Odour	Odourless.
Melting point/freezing point	> 57.3 - < 60.5 °C (ASTM D87-87).
Boiling point or initial boiling point and boiling range	Not determined, substance decomposes.
Flammability	The substance is not classified as flammable (EU method A.10).
Lower explosion limit	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.
pH	Not determined.
Kinematic viscosity	Does not apply to solid.
Solubility	Not determined.
Partition coefficient n-octanol/water (log value)	log Pow = ca. 4.27 (calculation).
Vapour pressure	0 Pa (25 °C, OECD 104).
Density and/or relative density	$D_4^{20} = 1.0$ (ISO 758).
Relative vapour density	Does not apply to solid.
Particle characteristics	Not determined.
2-Aminoethanol CAS: 141-43-5	
Physical state	Liquid.
Colour	Clear.
Odour	Aminic.
Melting point/freezing point	4 °C (ASTM E 737-76).
Boiling point or initial boiling point and boiling range	167 °C (ASTM-E 737-76).
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	91 °C (ISO 2719).
Auto-ignition temperature	424 °C (ASTM E 659).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	12.1 (concentration 100 g/l, 20 °C).
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	> 1 000 g/l (20 °C, pH = 12.1).
Partition coefficient n-octanol/water (log value)	log Pow = -2.3 (25 °C, pH = 6.8 - 7.3, OECD 107).
Vapour pressure	0.5 hPa (20 °C, literature). 4.1 hPa (50 °C, literature).
Density and/or relative density	1.02 g/cm ³ (20 °C, DIN 51757).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.

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Physical state	Liquid.	
Colour	Light yellow.	
Odour	Not determined.	
Melting point/freezing point	< -25 °C (OECD 102).	
Boiling point or initial boiling point and boiling range	100.1 °C (OECD 103).	
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	> 110 °C (EU method A.9).	
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	3.43 (20 °C, 10 g/l, CIPAC MT 75).	
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.	
Solubility	> 1 000 g/l (20 °C, pH = 5 - 9, OECD 105).	
Partition coefficient n-octanol/water (log value)	log Pow = 0.326 (2-methyl-2H-isothiazol-3-one, 24 °C, OECD 107). log Pow = 2.519 (5-chloro-2-methyl-2H-isothiazol-3-one, 24 °C, OECD 107).	
Vapour pressure	0.003 Pa (25 °C, OECD 104).	
Density and/or relative density	$D_4^{20} = 1.294$ (OECD 109).	
Relative vapour density	Not determined.	
Particle characteristics	Does not apply to liquid.	
Ethanediol		CAS: 107-21-1
Physical state	Liquid.	
Colour	Colourless.	
Odour	Odourless.	
Melting point/freezing point	-12.69 °C (literature).	
Boiling point or initial boiling point and boiling range	197.4 °C (literature).	
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.	
Lower explosion limit	Not determined.	

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Upper explosion limit	Not determined.
Flash point	115 °C (literature).
Auto-ignition temperature	412 °C (literature).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	Miscible.
Partition coefficient n-octanol/water (log value)	log Pow = -1.36 (literature).
Vapour pressure	100 Pa (51.1 °C, literature). 1 kPa (86.1 °C, literature). 10 kPa (132.5 °C, literature). 100 kPa (196.9 °C, literature).
Density and/or relative density	1.11 g/cm ³ (DIN 51557).
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

The mixture does not contain relevant substances classified as hazardous to the physical classes, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

CAS: 68411-30-3

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 (EU method A.10).

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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 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.

Amides, C8-18 (even numbered) and C18-unsatd., N-(hydroxyethyl)

CAS: 69227-24-3

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.

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KRYSTAL Abrasive detergent

Gases under pressure	
It is not gas.	
Flammable liquids	
It is not liquid.	
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 substance is soluble in water and forms a stable mixture with it.	
Oxidising liquids	
It is not liquid.	
Oxidising 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.	
2-Aminoethanol	CAS: 141-43-5
Explosives	
Data for the substance are not available. The substance does not contain chemical groups associated with explosive properties.	

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KRYSTAL Abrasive detergent

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 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

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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KRYSTAL Abrasive detergent

Desensitised explosives

Data for the substance are not available.

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

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

CAS: 55965-84-9

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

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 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.

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KRYSTAL Abrasive detergent

Oxidizing solids

It is not solid.

Organic peroxides

Data for the substance are not available.

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

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.

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

Ethanediol

CAS: 107-21-1

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 an 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.

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KRYSTAL Abrasive detergent

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

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

Oxidising liquids

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

Oxidizing solids

It is not solid.

Organic peroxides

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

Corrosive to metals

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

Desensitised explosives

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

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, pH is in the range 4 - 10.
Evaporation rate	Not determined.
Miscibility	Not determined.
Conductivity	Not determined.
Corrosiveness	Not determined.
Gas group	Not determined, it is not gas.
Redox potential	Not determined.
Radical formation potential	Not determined.
Photocatalytic properties	Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

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KRYSTAL Abrasive detergent

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.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

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

Mixture

Acute toxicity

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

Oral

Data for the mixture are not available.

ATE_{mixture} > 2 000 mg/kg bw (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 relevant substances classified as an acute toxicity by dermal route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Inhalation

Data for the mixture are not available.

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

Serious eye damage/irritation

Data for the mixture are not available.

The mixture is classified as seriously damaging to the eyes based on the general/specific concentration limits of substance(s).

Respiratory or skin sensitisation

Data for the mixture are not available.

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

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

Germ cell mutagenicity

Data for the mixture are not available.

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

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KRYSTAL Abrasive detergent

Carcinogenicity

Data for the mixture are not available.

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

Reproductive toxicity

Data for the mixture are not available.

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

STOT – single exposure

Data for the mixture are not available.

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

STOT – repeated exposure

Data for the mixture are not available.

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

Aspiration hazard

Data for the mixture are not available.

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

Other information

See section 2 and 4.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

CAS: 68411-30-3

Acute toxicity

Oral

The substance is classified in category 4.
LD₅₀ = 1 080 mg/kg bw (rat, female, OECD 401).

Dermal

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

Inhalation

Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin irritant.

Primary dermal irritation index PDII = 2.17 (max. 4, not fully reversible after 14 days) (rabbit, 72 hrs., OECD 404).

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes.

Overall irritation score = 1.75 (max. 4, not rinsed, not fully reversible after 14 days), 1 (max. 3, rinse after 4 seconds, reversible after 7 days), 1.06 (max. 2, rinse after 30 seconds, reversible after 14 days) (rabbit, 72 hrs., OECD 405).

Respiratory or skin sensitisation

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

Not skin sensitising (guinea pig, OECD 406).

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KRYSTAL Abrasive detergent

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 = 350 mg/kg/day (rat, oral, generation P0, literature).
NOAEL = 350 mg/kg/day (rat, oral, generation F1, literature).
NOAEL = 350 mg/kg/day (rat, oral, generation F2, literature).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

Based on available data, the classification criteria are not met.
NOAEL = 85 mg/kg/day (rat, oral, literature).
LOAEL = 300 mg/kg/day (rat, oral, literature).

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.

Amides, C8-18 (even numbered) and C18-unsatd., N-(hydroxyethyl)

CAS: 69227-24-3

Acute toxicity

Oral Based on available data, the classification criteria are not met.
LD₅₀ > 2 000 mg/kg bw (rat, OECD 401).

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

Inhalation Data for the substance are not available.

Skin corrosion/irritation

The substance is classified as skin irritant.
Mean erythema score = 2; 2.33; 3 (fully reversible after 14 days) and oedema = 0.33; 0.33; 1.33 (fully reversible after 14 days) (rabbit, 72 hrs., OECD 404).

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes.
Overall irritation score = 26.8 (max. 110, not fully reversible after 21 days) (rabbit, 72 hrs., OECD 405).

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.
Not skin sensitising (guinea pig, OECD 406).

Germ cell mutagenicity

Based on available data, the classification criteria are not met.
Negative (OECD 471, OECD 473, OECD 476).

Carcinogenicity

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KRYSTAL Abrasive detergent

Data for the substance are not available.

Reproductive toxicity

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

NOAEL = ca. 1 000 mg/kg/day (reproduction, rat, oral, generation P0, OECD 422).

NOAEL = 1 000 mg/kg/day (toxic effect, 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.

NOAEL > 750 mg/kg/day (rat, oral, 28 days, OECD 407).

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-Aminoethanol

CAS: 141-43-5

Acute toxicity

Oral The substance is classified in category 4.
LD₅₀ = 1 089 mg/kg bw (rat, OECD 401).

Dermal The substance is classified in category 4 according to harmonized classification.
LD₅₀ = 2 504 mg/kg bw (rabbit, male, OECD 402).
LD₅₀ = 2 881 mg/kg bw (rabbit, female, OECD 402).
ATE = 1 100 mg/kg bw (for calculation by additive formula).

Inhalation The substance is classified in category 4 according to harmonized classification.
LC₅₀ > 1.3 mg/l (vapour, rat, 6 hrs., no death is observed, OECD 403).
ATE = 11 mg/l (for calculation by additive formula, vapour).

Skin corrosion/irritation

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

Mean erythema score = 1.5; 1.5; 1.83; 3 (exposure time 1 min; 5 min; 15 min; 20 h; not fully reversible) and edema = 0; 0.16; 0.66; 1.33 (exposure time 1 min; 5 min; 15 min; 20 h; not fully reversible after 8 days) (rabbit, 72 h, OECD 404).

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes.

Mean score of corneal opacity = 3 (not fully reversible), iritis = 0.88, conjunctival erythema = 0.89 (not fully reversible), conjunctival edema = 1.33 (fully reversible) (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 473, OECD 476).

Carcinogenicity

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KRYSTAL Abrasive detergent

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

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

Reproductive toxicity

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

NOAEL = 1 000 mg/kg/day (reproduction, rat, male, oral, generation P0, OECD 416).

NOAEL = 300 mg/kg/day (reproduction, rat, female, oral, generation P0, OECD 416).

NOAEL = 1 000 mg/kg/day (reproduction, rat, male, oral, generation F1, OECD 416).

NOAEL = 300 mg/kg/day (reproduction, rat, female, oral, generation F1, OECD 416).

STOT – single exposure

Data for the substance are not available.

The substance may cause respiratory irritation.

STOT – repeated exposure

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

NOAEL = 300 mg/kg/day (body weight and weight gain, food consumption and compound intake, organ weights and organ/body weight ratios, rat, oral, OECD 416).

NOEC = 150 mg/m³ (systemic effect, rat, vapor/aerosol, 28 d., OECD 412).

NOEC = 10 mg/m³ (local effect, rat, steam/aerosol, 28 d., OECD 412).

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.

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

CAS: 55965-84-9

Acute toxicity

Oral The substance is classified in category 3.
LD₅₀ = 66 mg/kg bw (rat, OECD 401).

Dermal The substance is classified in category 2.
LD₅₀ = 87 mg/kg bw (rat, OECD literature).

Inhalation The substance is classified in category 2.
LC₅₀ = 0.17 mg/l (aerosol, rat, 4 hrs., OECD 403).

Skin corrosion/irritation

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

Mean erythema score = 1.7 (exposure time 4 hours, fully reversible in 11 days) and edema = 0.7 (exposure time 4 hours, fully reversible in 8 days) (rabbit, 72 hours, OECD 404).

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes (rabbit, 72 hrs., literature).

Respiratory or skin sensitisation

The substance is classified as skin sensitising in category 1A (guinea pig, OECD 406).

Germ cell mutagenicity

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

In vitro:

Pozitive (OECD 471, OECD 476).

In vivo:

Negative (OECD 474, OECD 475, OECD 477, OECD 486).

Carcinogenicity

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

NOEL = 300 ppm (rat, oral, OECD 453).

Reproductive toxicity

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

NOAEL = 30 ppm (overall effect, rat, oral, generation P0, OECD 416).

NOAEL = 300 ppm (reproduction, rat, oral, generation P1, OECD 416).

NOAEL = 300 ppm (reproduction and development, rat, oral, generation F1, OECD 416).

NOAEL = 300 ppm (viability, clinical signs, rat, oral, generation F2, OECD 416).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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

NOAEL = 6.28 mg/kg/day (overall effect, rat, oral, 90 d., OECD 408).

NOAEL = 0.4 mg/kg/day (overall effect, rabbit, dermal, 90 d., OECD 411).

NOAEC = 0.34 mg/kg/day (histopathology, rat, aerosol, 90 d., 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.

Ethanediol

CAS: 107-21-1

Acute toxicity

Oral The substance is classified in category 4 according to harmonized classification.

LD₅₀ = 7 712 mg/kg bw (rat, 30% solution, BASF test).

ATE = 500 mg/kg bw (for calculation by additive formula).

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

LD₅₀ > 3 500 mg/kg bw (mouse, literature).

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

LC₅₀ > 2.5 mg/l (aerosol, rat, 6 hrs., no death is observed, literature).

Skin corrosion/irritation

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

Total irritation score = 0 (BASF test).

Serious eye damage/irritation

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

Total irritation score = 0 (BASF test).

Respiratory or skin sensitisation

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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).

Carcinogenicity

Based on available data, the classification criteria are not met.
NOAEL = 1 000 mg/kg/day (rat, oral, literature).

Reproductive toxicity

Based on available data, the classification criteria are not met.
NOAEL > 1 000 mg/kg/day (rat, oral, generation P0, literature).
NOAEL > 1 000 mg/kg/day (rat, oral, generation F1, literature).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

May cause damage to kidney through prolonged or repeated oral exposure.
NOAEL = 853 mg/kg/day (kidney, 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 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

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

$\Sigma < 0.15$

Chronic aquatic toxicity

The mixture is classified as Aquatic Chronic 3; H412 based on calculation according to the summation method.

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KRYSTAL Abrasive detergent

< 10.0015 hm. %	0.08785	Aquatic Chronic 2; H411	not relevant
category	1	2	3
Σ	0	< 10.0015	< 100.015
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts			CAS: 68411-30-3
The substance is classified as Aquatic Chronic 3; H412.			
Fish			
LC ₅₀ , 96 hrs., Lepomis macrochirus: 1.67 mg/l (mortality). NOEC, 28 d., Oncorhynchus mykiss: 0.23 mg/l (mortality, OECD 210).			
Crustaceans			
EC ₅₀ , 48 hrs., Daphnia Magna: 2.9 mg/l (mobility, OECD 202). NOEC, 21 d., Daphnia Magna: 0.27 mg/l (survival and reproduction, OECD 211).			
Algae			
EC ₅₀ , 72 hrs., Pseudokirchneriella subcapitata: 235 mg/l (growth rate, OECD 201). EC ₁₀ , 96 hrs., Pseudokirchneriella subcapitata: 13.1 mg/l (growth rate, OECD 201).			
Amides, C8-18 (even numbered) and C18-unsatd., N-(hydroxyethyl)			CAS: 69227-24-3
The substance is classified as Aquatic Chronic 2; H411.			
Fish			
LC ₅₀ , 96 hrs., Oncorhynchus mykiss: > 3 mg/l (mortality, OECD 203). NOEC, 28 d., Oncorhynchus mykiss: ca. 0.32 mg/l (mortality, OECD 210).			
Crustaceans			
EC ₅₀ , 48 hrs., Daphnia Magna: ca. 3 mg/l (mobility, OECD 202). NOEC, 21 d., Daphnia Magna: 0.07 mg/l (survival, reproduction rate, OECD 211).			
Algae			
EC ₅₀ , 72 hrs., Desmodesmus subspicatus: ca. 8.7 mg/l (growth rate, OECD 201).			
2-Aminoethanol			CAS: 141-43-5
The substance is classified as Aquatic Chronic 3; H412.			
Fish			
LC ₅₀ , 96 hrs., Cyprinus carpio: 349 mg/l (mortality). NOEC, 41 d., Oryzias latipes: 1.24 mg/l (mortality, OECD 210).			
Crustaceans			
EC ₅₀ , 48 hrs., Daphnia Magna: 27.04 mg/l (mobility, OECD 202). NOEC, 21 d., Daphnia Magna: 0.85 mg/l (reproduction, OECD 202).			
Algae			
EC ₅₀ , 72 hrs., Pseudokirchneriella subcapitata: 2.8 mg/l (growth rate, OECD 201). EC ₅₀ , 72 hrs., Pseudokirchneriella subcapitata: 2.1 mg/l (biomass, OECD 201). NOEC, 72 hrs., Pseudokirchneriella subcapitata: 1 mg/l (growth rate, OECD 201). NOEC, 72 hrs., Pseudokirchneriella subcapitata: 1 mg/l (biomass, OECD 201).			
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			CAS: 55965-84-9

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KRYSTAL Abrasive detergent

The substance is classified as Aquatic Acute 1; H400 (M=100) and Aquatic Chronic 1; H410 (M=100).	
Fish	
LC ₅₀ , 96 hrs., Oncorhynchus mykiss: 0.19 mg/l (mortality, EPA OPP 72-1). NOEC, 35 d., Brachydanio rerio: ≥ 46.4 µg/l (mortality, OECD 210).	
Crustaceans	
EC ₅₀ , 48 hrs., Daphnia Magna: 0.099 mg/l (mobility, OECD 202). NOEC, 21 d., Daphnia Magna: 11.1 µg/l (reproduction, OECD 211).	
Algae	
EC ₅₀ , 72 hrs., Skeletonema costatum: 6.3 µg/l (growth rate, OECD 201). NOEC, 48 hrs., Skeletonema costatum: 0.49 µg/l (growth rate, OECD 201).	
Ethanediol	CAS: 107-21-1
The substance is not classified as hazardous for the aquatic environment.	
Fish	
LC ₅₀ , 96 hrs., Pimephales promelas: > 72 860 mg/l (mortality, literature). NOEC, 7 d., Pimephales promelas: 32 000 mg/l (mortality, EPA 600/4-89/001).	
Crustaceans	
EC ₅₀ , 48 hrs., Daphnia Magna: > 100 mg/l (mobility, OECD 202). NOEC, 21 d., Daphnia Magna: 2 mg/l (reproduction, literature).	
Algae	
IC ₅₀ , 96 hrs., Pseudokirchneriella subcapitata: 10 940 mg/l (number of cells, EPA/600/4-89/001).	
12.2. Persistence and degradability	
Mixture	
Data for the mixture are not available.	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	CAS: 68411-30-3
Readily biodegradable: 85 % after 29 days (CO ₂ evolution, OECD 301 B).	
Amides, C8-18 (even numbered) and C18-unsatd., N-(hydroxyethyl)	CAS: 69227-24-3
Readily biodegradable: ca. 99 % after 28 days (CO ₂ evolution, OECD 301 B).	
2-Aminoethanol	CAS: 141-43-5
Readily biodegradable: > 90 % after 28 days (removal of dissolved organic carbon, OECD 301 A).	
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS: 55965-84-9
Not readily biodegradable: 38.8 % after 29 days (CO ₂ evolution, OECD 301 B).	
Ethanediol	CAS: 107-21-1
Readily biodegradable: 90 - 100 % after 10 days (removal of dissolved organic carbon, OECD 301 A).	
12.3. Bioaccumulative potential	
Mixture	
Data for the mixture are not available.	

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Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	CAS: 68411-30-3
BCF, Oncorhynchus mykiss = 87 l/kg (OECD 305 E). log Pow = 1.4 (23 °C, pH = 6.1, OECD 123).	
Amides, C8-18 (even numbered) and C18-unsatd., N-(hydroxyethyl)	CAS: 69227-24-3
BCF = 45.27 - 65.321 ((Q)SAR method). log Pow = ca. 4.27 (calculation).	
2-Aminoethanol	CAS: 141-43-5
log Pow = -2.3 (25 °C, pH = 6.8 - 7.3, OECD 107).	
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS: 55965-84-9
BCF, Lepomis macrochirus: 41 - 54 (OECD 305 E). log Pow = 0.326 (2-methyl-2H-isothiazol-3-one, 24 °C, OECD 107). log Pow = 2.519 (5-chloro-2-methyl-2H-isothiazol-3-one, 24 °C, OECD 107).	
Ethanediol	CAS: 107-21-1
log Pow = -1.36 (literature).	
12.4. Mobility in soil	
Mixture	
Data for the mixture are not available.	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	CAS: 68411-30-3
Data for the substance are not available.	
Amides, C8-18 (even numbered) and C18-unsatd., N-(hydroxyethyl)	CAS: 69227-24-3
1 312.66 - 1 625.52 ((Q)SAR method).	
2-Aminoethanol	CAS: 141-43-5
Log Koc = 2.3 - 2.7 (literature).	
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS: 55965-84-9
Koc = 6.4 - 10 (pH = 4.7 - 7.4, OECD 106).	
Ethanediol	CAS: 107-21-1
log Koc = 0 l/kg ((Q)SAR method).	
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	

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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 does not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods of the substance or mixture and the contaminated packaging

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

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

Possible waste code

20 01 29* - detergents containing hazardous substances (mixture), 15 01 10* - packaging containing residues of or contaminated by hazardous substances (contaminated packaging), 15 01 02 - plastic packaging (clear packaging).

Physical/chemical properties that may affect waste treatment options

Not known.

Special precautions recommended for waste management

Not known.

Waste legislation

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

SECTION 14: Transport information

This product is not classified as a dangerous for transportation (ADR/RID, IMDG, ICAO/IATA).

14.1. UN number or ID number

Not given.

14.2. UN proper shipping name

Not given.

14.3. Transport hazard class(es)

Not given.

14.4. Packing group

Not given.

14.5. Environmental hazards

It is not dangerous for the environment during transport.

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14.6. Special precautions for user

Not given.

14.7. Maritime transport in bulk according to IMO instruments

Not available.

SECTION 15: Regulatory information

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

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

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

Regulation No. 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

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.

Key or legend to abbreviations and acronyms

Acute Tox. 2	Acute toxicity, cat. 2
Acute Tox. 3	Acute toxicity, cat. 3
Acute Tox. 4	Acute toxicity, cat. 4
Aquatic Acute 1	Acute aquatic hazard, cat. 1
Aquatic Chronic 1	Chronic aquatic hazard, cat. 1
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
Skin Corr. 1B	Skin corrosion, cat. 1B
Skin Corr. 1C	Skin corrosion, cat. 1C
Skin Irrit. 2	Skin irritation, cat. 2
Skin Sens. 1A	Skin sensitization, cat. 1A
STOT RE 2	Specific target organ toxicity - repeated exposure, cat. 2
STOT SE 3	Specific target organ toxicity - single exposure, cat. 3
ATE	Acute Toxicity Estimate
bw	body weight
M	Multiplying factor

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ADR	Accord Dangereuses Route
CLP	Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures
DNEL	Derived No Effect Level
ICAO/IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent, bioaccumulative, toxic substance
PNEC	Predicted No Effect Concentration
REACH	Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
STOT	Specific target organ toxicity
vPvB	Very persistent and very bioaccumulative substance

Sources of key data used to compile the Safety Data Sheet

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

List of H- and P- phrases

EUH071	Corrosive to the respiratory tract.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P102	Keep out of reach of children.
P273	Avoid release to the environment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Dispose of the cleaned packaging without any residual product content in the sorted waste.

Training advice

According to SDS.

Other information

Classification according to data from the manufacturer. The mixture is classified using calculation methods according to Regulation CLP and tests. Use only for the purposes designated by the manufacturer, will prevent health and environmental risks.

The information in this safety data sheet has been prepared according to the best available knowledge. The safety data sheet has been compiled in good faith but without guarantee. Various factors may influence properties under specific conditions. It is the responsibility of the product user to assess the accuracy of the information for their specific application. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

The safety data sheet is prepared in accordance with Regulation No. 2020/878/EC. There is no additional information in accordance with the local and national legislation of the Member State in the European Union, in the safety data sheet.

The safety data sheet was prepared by LACHEPRA s.r.o.