

SAFETY DATA SHEET

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

KRYSTAL For glossy surfaces and floors ECO

Date of issue:

30. 03. 2022

Version: 1.0

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

1.1. Product identifier

Product Name

KRYSTAL For glossy surfaces and floors ECO

UFI code

UFI: XDG0-E02F-300S-74G1

Product code

TBLPE01

Mixture description

An aqueous solution.

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

Identified uses

Liquid neutral cleaner ECO series.
Consumer use.

Uses advised against

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

1.3. Details of the supplier of the safety data sheet

CORMEN s.r.o.

Věchnov 73

593 01

Czech Republic

Tel.: +420 566 550 961

Fax: +420 566 551 822

e-mail address for a competent person responsible for the SDS: info@cormen.cz

1.4. Emergency telephone number

112 (General emergency phone).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture is classified as **hazardous** according to regulation 1272/2008/EC.

Classification according to 1272/2008/EC

Eye Irrit. 2; H319

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

The most important adverse physical, human health and environmental effects

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Causes serious eye irritation.

2.2. Label elements

Hazard pictograms



Signal word

Warning.

Substances of the mixture to be placed on the label

Are not.

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P102 Keep out of reach of children.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Supplemental hazard information

EUH208 - Contains 4-tert-Butylcyclohexyl acetate, 2-Methylisothiazol-3(2H)-one. May produce an allergic reaction.

Composition according to regulation 648/2004/EC on detergents: < 5 % anionic surfactants, non-ionic surfactants, perfumes, CITRONELLOL, LIMONENE, GERANIOL, LINALOOL, HEXYL CINNAMAL, ALPHA-ISOMETHYL IONONE, preservation agents (SODIUM BENZOATE, METHYLISOTHIAZOLINONE, METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE).

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

3.2.1. Substances of a mixture classified as hazardous

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Identification of substance		Content wt. %	Classification according to 1272/2008/EC
Decan-1-ol, ethoxylated (EO 8)			
CAS Number	26183-52-8	≤ 2.65	Acute Tox. 4; H302 Eye Dam. 1; H318
EC Number	932-717-8		
Index Number	not given		
Registration Number	polymer, not subject to registration		
Sulfonic acids, C14-17-sec-alkane, sodium salts			
CAS Number	97489-15-1	< 1.74	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412
EC Number	307-055-2		
Index Number	not given		
Registration Number	01-2119489924-20-XXXX		
The substance has specific concentration limits:			
Skin Irrit. 2; H315	C > 10 %		
Eye Dam. 1; H318	C > 15 %		
Eye Irrit. 2; H319	10 % < C ≤ 15 %		
Acute Tox. 4; H302	C > 60 %		
4-tert-Butylcyclohexyl acetate			
CAS Number	32210-23-4	≤ 0.125	Skin Sens. 1B; H317
EC Number	250-954-9		
Index Number	not given		
Registration Number	01-2119976286-24-XXXX		
2-Methylisothiazol-3(2H)-one			
		< 0.000 2	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318 Acute Tox. 2; H330 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M=10 M(Chronic)=1
CAS Number	2682-20-4		
EC Number	220-239-6		
Index Number	613-326-00-9		
Registration Number	not yet available		
The substance has specific concentration limits:			
Skin Sens. 1A	C ≥ 0.0015 %		
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.			

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4.1. Description of first aid measures

Inhalation

Interrupt the exposure, move the person to the fresh air. In case of persistent nausea, seek medical advice.

Skin contact

Remove contaminated clothing, shoes, and wash affected skin thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. If the problem persists, seek medical advice.

Eye contact

Rinse with a gentle stream of water for at least 15 minutes. Keep your eyelids wide open with your thumb and forefinger. If the affected person is wearing contact lenses, remove them before rinsing eyes if it is easy. If pain or redness persists, seek medical advice.

Ingestion

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

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

Are not known.

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

Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Small fire:

Carbon dioxide CO₂, dry extinguishing agent, sand or earth, alcohol-resistant foam.

Extensive fire:

Fragmented water streams (water mist), alcohol-resistant foam.

Unsuitable extinguishing media

Solid streams of water may be ineffective.

5.2. Special hazards arising from the substance or mixture

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

In case of fires, hazardous combustion gases are formed: carbon oxides, sulphur oxides, hydrogen sulphide 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

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

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

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

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

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)

Liquid agent for easy removal of limescale, rust and mechanical impurities.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure limit value

Not determined in EU.

8.1.2. Biological limit values

Not determined in EU.

8.1.3. DNEL and PNEC values

Sulfonic acids, C14-17-sec-alkane, sodium salts

CAS: 97489-15-1

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	35 mg/m ³

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Workers	Dermal	Systemic effect	Long term	5 mg/kg/day
Workers	Dermal	Local effect	Long term	2.8 mg/cm ²
Workers	Dermal	Local effect	Acute/short term	2.8 mg/cm ²
General population	Inhalation	Systemic effect	Long term	12.4 mg/m ³
General population	Dermal	Systemic effect	Long term	3.57 mg/kg/day
General population	Dermal	Local effect	Long term	2.8 mg/cm ²
General population	Dermal	Local effect	Acute/short term	2.8 mg/cm ²
General population	Oral	Systemic effect	Long term	7.1 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.06 mg/l	0.006 mg/l	0.06 mg/l	not given	600 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
9.4 mg/kg	0.94 mg/kg	no effect	9.4 mg/kg	53.3 mg/kg food
4-tert-Butylcyclohexyl acetate				CAS: 32210-23-4
DNEL - not yet available				
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
5.3 µg/l	0.53 µg/l	53 µg/l	not given	12.2 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
2.01 mg/kg	0.21 mg/kg	no effect	0.42 mg/kg	66.67 mg/kg food
8.2. Exposure controls				
8.2.1. Appropriate engineering controls				
Use only in well-ventilated areas.				
Observe usual safety precautions for working with chemicals. The degree of effectiveness of personal protective equipment depends on temperature and ventilation levels.				
8.2.2. Individual protection measures, such as personal protective equipment				
Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream. Do not soiled protective equipment to wash, do not use solvents.				
Eye/face protection				
Wear safety goggles or face shield when manufacturing and handling the product. They are not necessary when used by the consumer.				
Skin protection - hand protection				

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Wear protective gloves when manufacturing and handling the product. They are not necessary when used by the consumer.

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

In normal use is not necessary, in case of prolonged contact with the product, wear protective work clothes and shoes.

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 state	Liquid.
Colour	Colourless.
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	7
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.

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<i>Partition coefficient n-octanol/water (log value)</i>	Does not apply to mixture.
<i>Vapour pressure</i>	23 hPa.
<i>Density and/or relative density</i>	$D_4^{20} = 1$.
<i>Relative vapour density</i>	Not determined.
<i>Particle characteristics</i>	Does not apply to liquid.
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS: 97489-15-1	
<i>Physical state</i>	Solid.
<i>Colour</i>	Light yellow.
<i>Odour</i>	Characteristic.
<i>Melting point/freezing point</i>	> 350 °C (OECD 113). Not determined, substance decomposes.
<i>Boiling point or initial boiling point and boiling range</i>	Not determined, substance decomposes.
<i>Flammability</i>	Non-flammable solid (EU method A.10).
<i>Lower explosion limit</i>	Does not apply to solid.
<i>Upper explosion limit</i>	Does not apply to solid.
<i>Flash point</i>	Does not apply to solid.
<i>Auto-ignition temperature</i>	Does not apply to solid.
<i>Decomposition temperature</i>	> 350 °C (OECD 113).
<i>pH</i>	Not determined.
<i>Kinematic viscosity</i>	Does not apply to solid.
<i>Solubility</i>	ca. 32 wt. % (25 °C, pH = 7.0 - 8.5, literature).
<i>Partition coefficient n-octanol/water (log value)</i>	log Pow = 0.2 (20 °C, pH = 7.0 - 8.5, EU method A.8).
<i>Vapour pressure</i>	Not determined.
<i>Density and/or relative density</i>	0.62 g/cm ³ (20 °C, EN ISO 60).
<i>Relative vapour density</i>	Does not apply to solid.
<i>Particle characteristics</i>	D50 = 5 mm (literature).
4-tert-Butylcyclohexyl acetate CAS: 32210-23-4	
<i>Physical state</i>	Liquid.
<i>Colour</i>	Colourless.
<i>Odour</i>	Not determined.
<i>Melting point/freezing point</i>	Not determined.
<i>Boiling point or initial boiling point and boiling range</i>	243 °C (OECD 103).
<i>Flammability</i>	Not determined.
<i>Lower explosion limit</i>	Not determined.
<i>Upper explosion limit</i>	Not determined.

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Flash point	104 °C (EU method A.9).
Auto-ignition temperature	388 °C (EU method A.15).
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
pH	Not determined.
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	Not determined.
Partition coefficient n-octanol/water (log value)	log Pow = 4.8 (25 °C, OECD 117).
Vapour pressure	7.9 Pa (OECD 104).
Density and/or relative density	$D_4^{20} = 0.936$ (OECD 109).
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 substances classified as hazardous to the physical classes, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Sulfonic acids, C14-17-sec-alkane, sodium salts

CAS: 97489-15-1

Explosives

Data for the substance are not available.

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

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

It is not liquid.

Flammable solids

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

Self-reactive substances and mixtures

Data for the substance are not available.

The substance is not classified as self-reactive.

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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.	
4-tert-Butylcyclohexyl acetate	CAS: 32210-23-4
Explosives	
Data for the substance are not available. The substance does not contain chemical groups associated with explosive properties.	
Flammable gases	
It is not gas.	
Aerosols	
It is not aerosol.	
Oxidising gases	
It is not gas.	
Gases under pressure	
It is not gas.	
Flammable liquids	

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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.

Oxidising liquids

Data for the substance are not available.

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

Oxidizing solids

It is not solid.

Organic peroxides

Data for the substance are not available.

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

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

Desensitised explosives

Data for the substance are not available.

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

9.2.2. Other safety characteristics

Mechanical sensitivity

Not determined, it is not an explosive substance.

Self-accelerating polymerisation temperature

Not determined, it is not a polymerising substance.

Formation of explosible dust/air mixtures

Not determined, it is not a dust.

Acid/alkaline reserve

Not determined.

Evaporation rate

Not determined.

Miscibility

Not determined.

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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

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

10.4. Conditions to avoid

Protect from frost.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Burning releases carbon oxides, sulphur oxides, hydrogen sulphide 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 (estimate, low concentration of substances classified as toxic oral route of exposure).

Dermal Data for the mixture are not available.
ATE_{mixture} > 2 000 mg/kg (estimate, low concentration of substance classified as toxic dermal route of exposure).

Inhalation Data for the mixture are not available.
ATE_{mixture} > 20 mg/l (estimate, low concentration of substance classified as toxic inhalation route of exposure).

Skin corrosion/irritation

Data for the mixture are not available.

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

Serious eye damage/irritation

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Data for the mixture are not available.

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

Respiratory or skin sensitisation

Data for the mixture are not available.

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

EUH208 - Contains 4-tert-Butylcyclohexyl acetate, 2-Methylisothiazol-3(2H)-one. 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.

Carcinogenicity

Data for the mixture are not available.

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

Reproductive toxicity

Data for the mixture are not available.

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

STOT – single exposure

Data for the mixture are not available.

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

STOT – repeated exposure

Data for the mixture are not available.

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

Aspiration hazard

Data for the mixture are not available.

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

Other information

See section 2 and 4.

Sulfonic acids, C14-17-sec-alkane, sodium salts

CAS: 97489-15-1

Acute toxicity

Oral

The substance is classified in category 4.
LD₅₀ = 500 - 2 000 mg/kg (rat, OECD 401).
ATE = 500 mg/kg (for calculation by additive formula).

Dermal

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

Inhalation

Data for the substance are not available.

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Skin corrosion/irritation

The substance is classified as skin irritant.

Mean erythema score = 3.45 (fully reversible after 14 days) and oedema = 2.44 (fully reversible after 14 days) (rabbit, 72 hrs. OECD 404).

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes.

Mean score of corneal opacity $> 1 - \leq 3$ (not fully reversible), iritis $> 0 - \leq 1$ (not fully reversible), conjunctival redness $> 2 - \leq 3$ (not fully reversible), conjunctival oedema ≥ 2 (not fully reversible) (rabbit, 72 h, OECD 405).

Respiratory or skin sensitisation

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

Not skin sensitising (guinea pig, maximization test).

Not skin sensitising (guinea pig, OECD 406).

The substance is classified as skin sensitising in category 1B (mouse, OECD 429).

Germ cell mutagenicity

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

Negative (OECD 471, OECD 476).

Carcinogenicity

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

NOEL = ca. 1 000 mg/kg/day (carcinogenicity, rat, oral).

LOAEL = ca. 1 000 mg/kg/day (toxicity, rat, oral).

Reproductive toxicity

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

NOAEL $\geq 1\,000$ mg/kg/day (rat, oral, generation P, F1a, F1b, F2a, F2b, two-generation test).

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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

NOAEL = ca. 500 mg/kg/day (mouse, dermal).

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of $20.5\text{ mm}^2/\text{s}$ or less at $40\text{ }^\circ\text{C}$.

4-tert-Butylcyclohexyl acetate

CAS: 32210-23-4

Acute toxicity

Oral Based on available data, the classification criteria are not met.
LD₅₀ = 3 370 mg/kg (rat, OECD 401).

Dermal Based on available data, the classification criteria are not met.
LD₅₀ $> 4\,680$ mg/kg (rabbit, OECD 402).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

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

The substance not classified as skin irritant (human, EU method B.46).

Serious eye damage/irritation

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

Mean score of corneal opacity = 0.04 (fully reversible after 48 hours), iritis = 0, conjunctival redness = 0.17 (fully reversible after 48 hours), conjunctival oedema = 0.04 (fully reversible after 48 hours) (rabbit, 72 h, OECD 405).

Respiratory or skin sensitisation

The substance classified as skin sensitising in category 1B (mouse, OECD 429).

Germ cell mutagenicity

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

Negative (bacterial reverse mutation assay).

Negative (read-across (Coniferan), OECD 473, OECD 476).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

Data for the substance are not available.

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

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

NOAEL = 1 005 mg/kg/day (read-across (Dorysia), systemic toxicity, rat, male, oral, 28 days, OECD 407).

NOAEL = 980 mg/kg/day (read-across (Dorysia), systemic toxicity, rat, female, 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.

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

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The mixture is not classified as acute aquatic toxicity based on calculation according to the summation method.				
category 1		$\sum < 0.002$		
Chronic aquatic toxicity				
The mixture is not classified as chronic aquatic toxicity based on calculation according to the summation method.				
category	1	2	3	4
\sum	< 0.0002	< 0.002	< 1.76	< 1.7402
Sulfonic acids, C14-17-sec-alkane, sodium salts			CAS: 97489-15-1	
The substance is classified as Aquatic Chronic 3; H412.				
Fish				
LC ₅₀ , 96 hrs., Leuciscus idus: 5.5 mg/l (mortality, EU method C.1). NOEC, 28 d., Oncorhynchus mykiss: 0.85 mg/l (mortality, OECD 204).				
Crustaceans				
EC ₅₀ , 48 hrs., Daphnia Magna: 9.2 mg/l (mobility, OECD 202). NOEC, 22 d., Daphnia Magna: 0.36 mg/l (reproduction, OECD 202).				
Algae				
EC ₅₀ , 72 hrs., Desmodesmus subspicatus: > 61 mg/l (growth rate, OECD 201). EC ₁₀ , 72 hrs., Desmodesmus subspicatus: 58.8 mg/l (growth rate, OECD 201).				
4-tert-Butylcyclohexyl acetate			CAS: 32210-23-4	
The substance is not classified as dangerous for the aquatic environment.				
Fish				
LC ₅₀ , 96 hrs., Cyprinus carpio: 8.6 mg/l (mortality, EU Method C.1).				
Crustaceans				
EC ₅₀ , 48 hrs., Daphnia Magna: 5.3 mg/l (mobility, OECD 202).				
Algae				
EC ₅₀ , 72 hrs., Desmodesmus subspicatus: 22 mg/l (growth rate, EU Method C.3) EC ₁₀ , 72 hrs., Desmodesmus subspicatus: 11 mg/l (growth rate, EU Method C.3) NOEC, 72 hrs., Desmodesmus subspicatus: 6.8 mg/l (biomass, EU Method C.3)				
12.2. Persistence and degradability				
Mixture				
Data for the mixture are not available.				
Sulfonic acids, C14-17-sec-alkane, sodium salts			CAS: 97489-15-1	
Readily biodegradable: 78 % after 28 days (CO ₂ evolution, OECD 301 B).				
4-tert-Butylcyclohexyl acetate			CAS: 32210-23-4	
Readily biodegradable: 75 % after 29 days (CO ₂ evolution, EU method C.4-C).				
12.3. Bioaccumulative potential				
Mixture				

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Data for the mixture are not available.

Sulfonic acids, C14-17-sec-alkane, sodium salts

CAS: 97489-15-1

log Pow = 0.2 (20 °C, pH = 7 - 8.5, EU method A.8).

4-tert-Butylcyclohexyl acetate

CAS: 32210-23-4

BCF = 234 - 334.6 l/kg ((Q)SAR method).

log Pow = 4.8 (25 °C, OECD 117).

12.4. Mobility in soil

Mixture

Data for the mixture are not available.

Sulfonic acids, C14-17-sec-alkane, sodium salts

CAS: 97489-15-1

Data for the substance are not available.

4-tert-Butylcyclohexyl acetate

CAS: 32210-23-4

log Koc > 3.51 - < 3.66 (30 °C, EU method C.19).

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

EN 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.

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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.

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

First edition.

Key or legend to abbreviations and acronyms

Acute Tox. 2 Acute toxicity, cat. 2

Acute Tox. 3 Acute toxicity, cat. 3

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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 3	Chronic aquatic hazard, cat. 3
Eye Dam. 1	Eye Dam. 1
Eye Irrit. 2	Eye Irrit. 2
Skin Corr. 1B	Skin corrosion, cat. 1B
Skin Irrit. 2	Skin irritation, cat. 2
Skin Sens. 1A	Skin sensitization, cat. 1A
Skin Sens. 1B	Skin sensitization, cat. 1B
M	Multiplying factor
ADR	Accord Dangereuses Route
CLP	Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures
DNEL	Derived No Effect Level
ICAO/IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent, bioaccumulative, toxic substance
PNEC	Predicted No Effect Concentration
REACH	Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
STOT	Specific target organ toxicity
vPvB	Very persistent and very bioaccumulative substance

Sources of key data used to compile the Safety Data Sheet

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

List of H- and P- phrases

EUH071	Corrosive to the respiratory tract.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic 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.
H400	Very toxic to aquatic life.

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H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
H302	Harmful if swallowed.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
P102	Keep out of reach of children.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Training advice

According to SDS.

Other information

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

The information in this SDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

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

The safety data sheet was created by company LACHEPRA s.r.o.