

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

Date of revision: 23. 02. 2026

Version: 7.0

Replaced version from: 30. 07. 2024

Date of issue: 19. 05. 2015

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

1.1. Product identifier

Product Name

KRYSTAL For dishes lemongrass

UFI code

UFI: P451-E08M-U000-JD14

Product code

TBNAP.R02a

Mixture description

Water solution.

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

Identified uses

Cleaning agent.
Consumer and professional use.

Uses advised against

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

1.3. Details of the supplier of the safety data sheet

Registered office:

CORMEN s.r.o.

Věchnov 73

593 01

Czech Republic

Tel.: +420 566 550 961

Fax: +420 566 551 822

Trade establishment:

CORMEN s.r.o.

Průmyslová 1420

593 01 Bystřice nad Pernštejnem

Czech Republic

Tel.: +420 565 400 300

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.

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

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

Causes serious eye irritation. May produce an allergic reaction.

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 by handing it over to a collection yard or sorted waste.

Supplemental hazard information

EUH208 - Contains Orange, sweet, ext., Lemon oil, 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 % anionic surfactants, < 5 % amphoteric surfactants, perfumes, LIMONENE, preservation agents (BENZYL ALCOHOL, METHYLCHLOROISOTHIAZOLINONE A METHYLISOTHIAZOLINONE).

2.3. Other hazards

The 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. The 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

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

3.2.1. Substances of a mixture classified as hazardous			
	Identification of substance	Content wt. %	Classification according to 1272/2008/EC
Alcohols, C12-14, ethoxylated, sulfates, sodium salts			
CAS Number	68891-38-3	1 - < 8.5	Skin Irrit. 2; H315 Eye Dam. 1; H318
EC Number	500-234-8		
Index Number	not given		
Registration Number	01-2119488639-16-XXXX		
The substance has specific concentration limits:			
Eye Dam. 1; H318	$C \geq 10 \%$		
Eye Irrit. 2; H319	$5 \% < C < 10 \%$		
Poly(oxy-1,2-ethanediyl), α-sulpho-ω-(dodecyloxy)-, ammonium salt (3 EO)			
CAS Number	32612-48-9	1 - < 8.5	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 3; H412
EC Number	not given		
Index Number	not given		
Registration Number	polymer, not subject to registration		
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts			
CAS Number	97862-59-4	1 - < 1.5	Eye Dam. 1; H318 Aquatic Chronic 3; H412
EC Number	931-296-8		
Index Number	not given		
Registration Number	01-2119488533-30-XXXX		
The substance has specific concentration limits:			
Eye Dam. 1; H318	$C > 10 \%$		
Eye Irrit. 2; H319	$4 \% < C \leq 10 \%$		
Orange, sweet, ext.			
CAS Number	8028-48-6	< 0.5	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411
EC Number	232-433-8		
Index Number	not given		
Registration Number	01-2119493353-35-XXXX		
Lemon oil			
CAS Number	8008-56-8	< 0.5	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411
EC Number	284-515-8		
Index Number	not given		
Registration Number	not yet available		
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

CAS Number 55965-84-9
EC Number 911-418-6
Index Number 613-167-00-5
Registration Number 01-2120764691-48-XXXX

< 0.0015

Acute Tox. 3; H301
Acute Tox. 2; H310
Skin Corr. 1C; H314
Eye Dam. 1; H318
Skin Sens. 1A; H317
Acute Tox. 2; H330
Aquatic Acute 1; H400
Aquatic Chronic 1; H410
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	$C \geq 0.6 \%$
Eye Dam. 1; H318	$C \geq 0.6 \%$
Skin Irrit. 2; H315	$0.06 \% \leq C < 0.6 \%$
Eye Irrit. 2; H319	$0.06 \% \leq C < 0.6 \%$
Skin Sens. 1A; H317	$C \geq 0.0015 \%$

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.

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.

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

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

Strong 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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

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. 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

Not determined in EU.

8.1.2. Biological limit values

Not determined in EU.

8.1.3. DNEL and PNEC values

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

CAS: 68891-38-3

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	411 mg/m ³
Workers	Dermal	Systemic effect	Long term	5 830 mg/kg/day
General population	Inhalation	Systemic effect	Long term	87.1 mg/m ³
General population	Dermal	Systemic effect	Long term	2 500 mg/kg/day
General population	Oral	Systemic effect	Long term	25 mg/kg/day

PNEC

Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.129 mg/l	0.013 mg/l	0.71 mg/l	0.071 mg/l	10 g/l

PNEC

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
4.835 mg/kg	0.483 mg/kg	no effect	7.5 mg/kg	no effect

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts

CAS: 97862-59-4

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	44 mg/m ³

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

Workers	Dermal	Systemic effect	Long term	12.5 mg/kg/day
General population	Inhalation	Systemic effect	Long term	13.04 mg/m ³
General population	Dermal	Systemic effect	Long term	7.5 mg/kg/day
General population	Oral	Systemic effect	Long term	7.5 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.013 mg/l	0.001 mg/l	not given	not given	3 000 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
11.1 mg/kg	1.11 mg/kg	no effect	0.85 mg/kg	no effect
Orange, sweet, ext.				CAS: 8028-48-6
DNEL				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	31.1 mg/m ³
Workers	Dermal	Systemic effect	Long term	8.89 mg/kg/day
Workers	Dermal	Local effect	Acute/short term	185.8 µg/cm ²
General population	Inhalation	Systemic effect	Long term	7.78 mg/m ³
General population	Dermal	Systemic effect	Long term	4.44 mg/kg/day
General population	Dermal	Local effect	Acute/short term	92.9 µg/cm ²
General population	Oral	Systemic effect	Long term	4.44 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
14 µg/l	1.4 µg/l	not given	not given	1.8 mg/l
PNEC				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
3.85 mg/kg	0.385 mg/kg	no effect	0.763 mg/kg	133 mg/kg food
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)				CAS: 55965-84-9
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

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

General population	Oral	Local effect	Long term	0.11 mg/kg/day
PNEC				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
3.39 µg/l	3.39 µg/l	Fresh water	Marine water	0.23 mg/l
3.39 µg/l		3.39 µg/l	3.39 µg/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

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

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

In normal use is not necessary. Wear protective working clothing and protective footwear when manufacturing and handling the product.

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, it is not necessary to use 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

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

9.1. Information on basic physical and chemical properties

Mixture	
Physical state	Liquid.
Colour	Green.
Odour	Not determined.
Melting point/freezing point	Not determined.
Boiling point or initial boiling point and boiling range	Not determined.
Flammability	Not determined.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	Not determined.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined, the mixture does not contain self-reactive substances or organic peroxides or other substances which may decompose.
pH	5.0 - 6.0.
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 with water.
Partition coefficient n-octanol/water (log value)	Does not apply to mixture.
Vapour pressure	Not determined.
Density and/or relative density	1.0290 g/cm ³ .
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS: 68891-38-3
Physical state	Solid.
Colour	Yellowish.
Odour	Rancid.
Melting point/freezing point	> 300 °C (ASTM E737-76).
Boiling point or initial boiling point and boiling range	Not determined, the substance has a melting point higher than 300 °C.
Flammability	The substance is not classified as flammable solid (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.

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

Auto-ignition temperature	250 °C (EU method A.16)
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	280 g/l (20 °C, pH = 6.8, literature).
Partition coefficient n-octanol/water (log value)	log Pow = 0.3 (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	1.08 g/cm ³ (22 °C, OECD 109).
Relative vapour density	Does not apply to solid.
Particle characteristics	Not determined.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts CAS: 97862-59-4	
Physical state	Solid.
Colour	Not determined.
Odour	Not determined.
Melting point/freezing point	Not determined, substance decomposes.
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.
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	208 - 280 °C (OECD 102).
pH	Not determined.
Kinematic viscosity	Does not apply to solid.
Solubility	≤ 400 mg/l (20 °C, literature)

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

Partition coefficient n-octanol/water (log value)	log Pow = 1.79 (pH = 3 - 8, 20 °C, C8 derivates, (Q)SAR method). log Pow = 2.81 (pH = 3 - 8, 20 °C, C10 derivates, (Q)SAR method). log Pow = 3.54 (pH = 3 - 8, 20 °C, C12 derivates, (Q)SAR method). log Pow = 5.13 (pH = 3 - 8, 20 °C, C14 derivates, (Q)SAR method). log Pow = 6.15 (pH = 3 - 8, 20 °C, C16 derivates, (Q)SAR method). log Pow = 7.17 (pH = 3 - 8, 20 °C, C18 derivates, (Q)SAR method).
Vapour pressure	Not determined.
Density and/or relative density	1.15 g/cm ³ (20 °C, ISO 1183-1).
Relative vapour density	Does not apply to solid.
Particle characteristics	Not determined.
Orange, sweet, ext.	CAS: 8028-48-6
Physical state	Liquid.
Colour	Orange.
Odour	Characteristic.
Melting point/freezing point	< -25 °C.
Boiling point or initial boiling point and boiling range	160 °C (OECD 103).
Flammability	The substance is classified as flammable under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	53.4 °C (ASTM D7094).
Auto-ignition temperature	235 °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	1.17 mm ² /s (20 °C, DIN 53015).
Solubility	Not determined.
Partition coefficient n-octanol/water (log value)	log Pow = 2.78 - 4.88 ((Q)SAR method).
Vapour pressure	Not determined.
Density and/or relative density	D ₄ ²⁰ = 0.847 (OECD 109).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS: 55965-84-9	
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.
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.	
Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS: 68891-38-3	
Explosives	
Data for the substance are not available. The substance does not contain chemical groups associated with explosive properties.	
Flammable gases	

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

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, burning time > 2 400 s (EU method A.10).

Self-reactive substances and mixtures

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

Pyrophoric liquids

It is not liquid.

Pyrophoric solids

Data for the substance are not available.

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

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

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

Data for the substance are not available.

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

The substance is miscible with 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

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

Data for the substance are not available.

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

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts CAS: 97862-59-4

Explosives

Data for the substance are not available.

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

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

It is not liquid.

Flammable solids

Burning time = 510 s (EU method A.10).

Self-reactive substances and mixtures

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

Pyrophoric liquids

It is not liquid.

Pyrophoric solids

Data for the substance are not available.

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

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

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

Data for the substance are not available.

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

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

Oxidising liquids

It is not liquid.

Oxidizing solids

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

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.

Orange, sweet, ext.

CAS: 8028-48-6

Explosives

Data for the substance are not available.

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

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

The substance is classified as flammable liquid category 3 according to the value of the flash point and boiling point.

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.

The substance 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

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

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.

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

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

Pyrophoric liquids

Data for the substance are not available.

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

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

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

Data for the substance are not available.

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

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

Oxidising liquids

Data for the substance are not available.

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

Oxidizing solids

It is not solid.

Organic peroxides

Data for the substance are not available.

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

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

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.

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

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

Dermal Data for the mixture are not available.
The mixture does not contain 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

The mixture is not classified as irritating to the skin based on the test result (simple open epicutaneous test).

Serious eye damage/irritation

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

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 Orange, sweet, ext., Lemon oil, 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.

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 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 relevant 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.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

CAS: 68891-38-3

Acute toxicity

Oral Based on available data, the classification criteria are not met.
LD₅₀ = 4 100 mg/kg bw (rat, 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.

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

Skin corrosion/irritation

The substance is classified as skin irritant.

Mean erythema score = 3.2 and oedema = 3.2 (fully reversible) (rabbit, 72 hrs., OECD 404).

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes.

Mean score of corneal opacity = 1.3 (not fully reversible after 21 days), iritis = 0.8 (not fully reversible after 21 days), conjunctival redness = 3 (fully reversible), conjunctival edema = 1 (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, OECD 406).

Germ cell mutagenicity

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

Negative (OECD 471, OECD 476).

Carcinogenicity

Data for the substance are not available.

Reproductive toxicity

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

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

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

NOAEL = 300 mg/kg/day (rat, oral, generation F1, 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 > 225 mg/kg/day (systemic toxicity, 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.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts CAS: 97862-59-4

Acute toxicity

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

LD₅₀ = 2 335 mg/kg bw (rat, OECD 401).

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

LD₅₀ > 2 000 mg/kg bw (rat, OECD 402).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

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

Mean erythema score = 0.33; 1.67; 0.33 (fully reversible after 72 hours) and oedema = 0.33; 0.33; 0 (fully reversible after 48 hours) (rabbit, OECD 404).

Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes.

Mean score of corneal opacity = 1.33 (not fully reversible after 21 days), iritis = 1 (not fully reversible after 21 days), conjunctival redness = 3 (not fully reversible after 21 days), conjunctival oedema = 1.1 (fully reversible after 17 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 476, EU method B13/14).

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.

NOEL = 300 mg/kg/day (systemic effect, rat, oral, 90 days, OECD 408).

NOEL = 75 mg/kg/day (local effect, local irritative effects at the side of application (forestomach gastritis), judged as not relevant to humans due to significant different anatomic situation and exposure probability in humans, rat, oral, 90 days, OECD 408).

LOEL = 150 mg/kg/day (local effect, local irritative effects at the side of application (forestomach gastritis), judged as not relevant to humans due to significant different anatomic situation and exposure probability in humans, 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.

Orange, sweet, ext.

CAS: 8028-48-6

Acute toxicity

Oral Based on available data, the classification criteria are not met.
LD₅₀ > 5 000 mg/kg bw (rat, OECD 401).

Dermal Based on available data, the classification criteria are not met.
LD₅₀ > 5 000 mg/kg bw (rabbit, OECD 402).

Inhalation Data for the substance are not available.

Skin corrosion/irritation

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

The substance is classified as skin irritant.

Mean erythema score = 2; 1.7; 2 (fully reversible after 10 days) and oedema = 2; 1.3; 2 (fully reversible after 5 days) (rabbit, 72 hrs., OECD 404).

Serious eye damage/irritation

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

Mean score of corneal opacity = 0, iritis = 0, conjunctival redness = 1 (fully reversible after 9 days), conjunctival oedema = 1; 2; 1 (fully reversible after 8 days) (rabbit, 72 hrs., OECD 405).

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Negative (OECD 471, OECD 473, OECD 476).

Carcinogenicity

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

NOAEL = 75 - 150 mg/kg/day (rat, male, oral, OECD 451).

NOAEL = 300 - 600 mg/kg/day (rat, female, oral, OECD 451).

Reproductive toxicity

Data for the substance are not available.

STOT – single exposure

Data for the substance are not available.

STOT – repeated exposure

Data for the substance are not available.

Aspiration hazard

The substance is classified as aspiration hazard.

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

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

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

Germ cell mutagenicity

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, OE3CD 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.

11.2. Information on other hazards

The 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.

The 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

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

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 not classified as chronic aquatic toxicity based on calculation according to the summation method.				
category	1	2	3	4
Σ	< 0.15	< 1.5	< 25	< 10.0015
Alcohols, C12-14, ethoxylated, sulfates, sodium salts				CAS: 68891-38-3
The substance is not classified as hazardous for the aquatic environment.				
Fish				
LC ₅₀ , 96 hrs., Danio rerio: 7.1 mg/l (mortality, OECD 203). EC ₁₀ , 28 d., Pimephales promelas: 1.7 mg/l (read-across (Alcohols, C12-14 (linear, even numbering), ethoxylated, sulfates, ammonium salt, < 2.5 mol EO, OECD 210).				
Crustaceans				
EC ₅₀ , 48 hrs., Daphnia Magna: 7.4 mg/l (mobility, OECD 202). NOEC, 21 d., Daphnia Magna: ≥ 1.19 mg/l (reproduction, OECD 211).				
Algae				
EC ₅₀ , 72 hrs., Desmodesmus subspicatus: 27.7 mg/l (growth rate, OECD 201). EC ₁₀ , 72 hrs., Desmodesmus subspicatus: 4.4 mg/l (growth rate, OECD 201).				
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts				CAS: 97862-59-4
The substance is classified as Aquatic Chronic 3; H412.				
Fish				
LC ₅₀ , 96 hrs., Pimephales promelas: 1.1 mg/l (mortality, OECD 203). NOEC, 37 d., Oncorhynchus mykiss: 0.135 mg/l (egg hatch, OECD 210).				
Crustaceans				
EC ₅₀ , 48 hrs., Daphnia Magna: 6.5 mg/l (mobility, OECD 202). NOEC, 21 d., Daphnia Magna: 0.32 mg/l (reproduction, OECD 211). NOEC, 21 d., Daphnia Magna: 0.56 mg/l (mortality, OECD 211).				
Algae				
EC ₅₀ , 72 hrs., Pseudokirchneriella subcapitata: ca. 8 mg/l (growth rate, OECD 201). EC ₅₀ , 72 hrs., Pseudokirchneriella subcapitata: > 10 mg/l (biomass, OECD 201). NOEC, 72 hrs., Pseudokirchneriella subcapitata: 3.2 mg/l (growth rate and biomass, OECD 201).				
Orange, sweet, ext.				CAS: 8028-48-6
The substance is classified as Aquatic Chronic 2; H411.				
Fish				
LL ₅₀ , 96 hrs., Brachydanio rerio: 5.65 mg/l (mortality, OECD 203). NOELR, 96 hrs., Brachydanio rerio: 4 mg/l (mortality, OECD 203).				
Crustaceans				

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

EL₅₀, 48 hrs., Daphnia Magna: 1.1 mg/l (mobility, OECD 202).

NOELR, 48 hrs., Daphnia Magna: 0.48 mg/l (mobility, OECD 202).

Algae

EL₅₀, 72 hrs., Desmodesmus subspicatus: 150 mg/l (growth rate, OECD 201).

NOELR, 72 hrs., Desmodesmus subspicatus: 50 mg/l (growth rate, 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

The substance is classified as Aquatic Acute 1; H400 (M=100) and Aquatic Chronic 1; H410 (M=100).

Fish

LC₅₀, 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

EC₅₀, 48 hrs., Daphnia Magna: 0.099 mg/l (mobility, OECD 202).

NOEC, 21 d., Daphnia Magna: 11.1 µg/l (reproduction, OECD 211).

Algae

EC₅₀, 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).

12.2. Persistence and degradability

Mixture

Data for the mixture are not available.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS: 68891-38-3

Readily biodegradable: 100 % after 28 days (dissolved organic carbon removal, EU method C.4-C).

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts CAS: 97862-59-4

Readily biodegradable: 91.6 % after 28 days (CO₂ evolution, OECD 301 B).

Orange, sweet, ext. CAS: 8028-48-6

Readily biodegradable.

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 (CO₂ evolution, OECD 301 B).

12.3. Bioaccumulative potential

Mixture

Data for the mixture are not available.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS: 68891-38-3

log Pow = 0.3 (23 °C, pH = 6.1, OECD 123).

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts CAS: 97862-59-4

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

BCF = 3 (C8 derivates, (Q)SAR method).
BCF = 71 (C10-18 a C18 unsaturated derivates, (Q)SAR method).
log Pow = 1.79 (pH = 3 - 8, 20 °C, C8 derivates, (Q)SAR method).
log Pow = 2.81 (pH = 3 - 8, 20 °C, C10 derivates, (Q)SAR method).
log Pow = 3.54 (pH = 3 - 8, 20 °C, C12 derivates, (Q)SAR method).
log Pow = 5.13 (pH = 3 - 8, 20 °C, C14 derivates, (Q)SAR method).
log Pow = 6.15 (pH = 3 - 8, 20 °C, C16 derivates, (Q)SAR method).
log Pow = 7.17 (pH = 3 - 8, 20 °C, C18 derivates, (Q)SAR method).

Orange, sweet, ext.

CAS: 8028-48-6

log Pow = 2.78 - 4.88 ((Q)SAR method).

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).

12.4. Mobility in soil

Mixture

Data for the mixture are not available.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

CAS: 68891-38-3

Koc = 2.2 (Q)SAR method.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts

CAS: 97862-59-4

log Koc = 2.423 - 5.081 ((Q)SAR method).

Orange, sweet, ext.

CAS: 8028-48-6

Data for the substance are not available.

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).

12.5. Results of PBT and vPvB assessment

The 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

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

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. Do not empty unused product into drainage systems. Do not contaminate ponds or ditches with the product or used container. Do not dispose with municipal waste.

Hand over residual quantities and unregenerate solutions to the collection yard 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.

14.6. Special precautions for user

Not given.

14.7. Maritime transport in bulk according to IMO instruments

Not available.

SECTION 15: Regulatory information

SAFETY DATA SHEET

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

KRYSTAL For dishes lemongrass

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

It 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
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
Asp. Tox. 1	Aspiration hazard, cat. 1
Eye Dam. 1	Serious eye damage, cat. 1
Eye Irrit. 2	Eye irritation, cat. 2
Flam. Liq. 3	Flammable liquid, cat. 3
Skin Corr. 1C	Skin corrosion, cat. 1C
Skin Irrit. 2	Skin irritation, cat. 2
Skin Sens. 1A	Skin sensitization, cat. 1A
Skin Sens. 1	Skin sensitization, cat. 1
ATE	Acute Toxicity Estimate
bw	body weight
M	Multiplying factor
ADR	Accord Dangereuses Route
CLP	Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures
DNEL	Derived No Effect Level
ICAO/IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent, bioaccumulative, toxic substance

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KRYSTAL For dishes lemongrass

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.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H310	Fatal 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.
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.
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 by handing it over to a collection yard or 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.

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KRYSTAL For dishes lemongrass

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.