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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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

1.1 Product identifier

NanoCrystal Polish Art.: 241999

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

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

Koch-Chemie GmbH Einsteinstrasse 42 59423 Unna Telefon: +49 (0) 2303 / 9 86 70 - 0 Fax: +49 (0) 2303 / 9 86 70 - 26 info@koch-chemie.com www.koch-chemie.com

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.: +353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week) +353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

Telephone number of the company in case of emergencies:

+1 872 5888271 (KCC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixtureClassification according to Regulation (EC) 1272/2008 (CLP)Hazard classHazard categoryHazard statementSkin Irrit.2H315-Causes skin irritation.Eye Dam.1H318-Causes serious eye damage.Aquatic Chronic3H412-Harmful to aquatic life with long lasting effects.

2.2 Label elements

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Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H315-Causes skin irritation. H318-Causes serious eye damage. H412-Harmful to aquatic life with long lasting effects.

P273-Avoid release to the environment. P280-Wear protective gloves / eye protection / face protection. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310-Immediately call a POISON CENTER / doctor.

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates (salts)

Amines, tallow alkyl, ethoxylated

Amides, C12-18 (even-numbered), N-[3-(dimethylamino)propyl], N'-oxides

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. 3.2 Mixtures

Amides, C12-18 (even-numbered), N-[3-(dimethylamino)propyl], N'oxides **Registration number (REACH)** 01-2119978229-22-XXXX Index ---EINECS, ELINCS, NLP, REACH-IT List-No. 939-581-9 CAS 1471314-81-4 content % 10-<25 Classification according to Regulation (EC) 1272/2008 (CLP), M-Acute Tox. 4, H302 factors Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412 Specific Concentration Limits and ATE ATE (oral): 500 mg/kg Phenolpolyethoxylate **Registration number (REACH)** ---Index EINECS, ELINCS, NLP, REACH-IT List-No. 500-013-6 CAS 9004-78-8

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content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Acute Tox. 4, H302
factors	
Specific Concentration Limits and ATE	ATE (oral): 500 mg/kg
Citric acid monohydrate	
Registration number (REACH)	01-2119457026-42-XXXX
Index	607-750-00-3
EINECS, ELINCS, NLP, REACH-IT List-No.	201-069-1
CAS	5949-29-1
content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Eye Irrit. 2, H319
factors	STOT SE 3, H335

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates (salts)	
Registration number (REACH)	01-2119983493-26-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	939-685-4
CAS	
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Skin Irrit. 2, H315
factors	Eye Dam. 1, H318
	Aquatic Chronic 3, H412

Amines tellow allow sthewylated	
Amines, tallow alkyl, ethoxylated	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	61791-26-2
content %	1-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Acute Tox. 4, H302
factors	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)
Specific Concentration Limits and ATE	ATE (oral): 500 mg/kg

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

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Eye contact

Remove contact lenses. Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available. Protect uninjured eye. Follow-up examination by an ophthalmologist. Ingestion

Rinse the mouth thoroughly with water.

Give copious water to drink - consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. eyes, reddened watering eyes Irritation of the eyes Drying of the skin. Dermatitis (skin inflammation) **4.3 Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Adapt to the nature and extent of fire.

Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Oxides of nitrogen Oxides of sulphur Toxic gases

5.3 Advice for firefighters

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up. Resolve leaks if this possible without risk.

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Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Flush residue using copious water.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Under all circumstances prevent penetration into the soil.

Store at room temperature. Protect from frost.

7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,

depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	0,0303	mg/l	
	Environment - marine		PNEC	0,00303	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,0068	mg/l	
	Environment - sediment, freshwater		PNEC	0,214	mg/kg dw	

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	Environment - sediment, marine		PNEC	0,0214	mg/kg dw
	Environment - soil		PNEC	0,00002 5	mg/kg dw
	Environment - oral (animal feed)		PNEC	0,5	mg/kg feed
	Environment - sewage treatment plant		PNEC	9,7	mg/l
Consumer	Human - oral	Long term, systemic effects	DNEL	0,05	mg/kg bw/d
Consumer	Human - dermal	Long term, systemic effects	DNEL	2,5	mg/kg bw/d
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,87	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	5	mg/kg bw/d
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	3,52	mg/m3

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	0,44	mg/l	
	Environment - marine		PNEC	0,044	mg/l	
	Environment - sewage		PNEC	1000	mg/l	
	treatment plant					
	Environment - sediment,		PNEC	34,6	mg/kg dry	
	freshwater				weight	
	Environment - sediment,		PNEC	3,46	mg/kg dry	
	marine				weight	
	Environment - soil		PNEC	33,1	mg/kg dry	
					weight	

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,017	mg/l	
	Environment - sediment, freshwater		PNEC	1,7	mg/kg dw	
	Environment - marine	PNEC	0,002	mg/l		
	Environment - sediment, marine		PNEC	0,17	mg/kg dw	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - soil		PNEC	0,331	mg/kg dw	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	2,17	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	56,25	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	1,25	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	8,72	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	112,5	mg/kg bw/d	

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8.2 Exposure controls 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). If applicable Protective gloves made of butyl (EN ISO 374). Protective nitile gloves (EN ISO 374). Protective Neoprene® / polychloroprene gloves (EN ISO 374). Protective PVC gloves (EN ISO 374). Minimum layer thickness in mm: 0,5 Permeation time (penetration time) in minutes: > 480 Protective hand cream recommended. The breaktbrough times determined in accordance with EN 16523-1 were not obtained under practical condition

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Colour: Odour: Melting point/freezing point: Liquid Yellow Characteristic There is no information available on this parameter.

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Boiling point or initial boiling point and boiling range: Flammability: Lower explosion limit: Upper explosion limit: Flash point: Auto-ignition temperature: Decomposition temperature: pH: Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics: There is no information available on this parameter. 4,5 There is no information available on this parameter. There is no information available on this parameter. There is no information available on this parameter. Does not apply to mixtures. There is no information available on this parameter. 1,03 g/ml There is no information available on this parameter.

9.2 Other information

No information available at present.

SECTION 10: Stability and reactivity

Does not apply to liquids.

10.1 Reactivity

The product has not been tested. **10.2 Chemical stability** Stable with proper storage and handling. **10.3 Possibility of hazardous reactions** No dangerous reactions are known. **10.4 Conditions to avoid** None known **10.5 Incompatible materials** Avoid contact with strong oxidizing agents. Avoid contact with strong alkalis. Avoid contact with strong acids.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification). NanoCrystal Polish

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal						n.d.a.
route:						
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						

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Specific target organ toxicity -						n.d.a.
repeated exposure (STOT- RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.
Amides, C12-18 (even-number						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	500-1000	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Acute toxicity, by oral route:	ATE	500	mg/kg	Det		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal	Irritant
Serious eye				Rabbit	Irritation/Corrosion) OECD 405 (Acute	Risk of serious
damage/irritation:				Rabbit	Eye Irritation/Corrosion)	damage to eyes.
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity (Effects on fertility):	NOEL	100	mg/kg bw/d	Rat	OECD 421 (Reproduction/Develop mental Toxicity Screening Test)	
Specific target organ toxicity - repeated exposure (STOT- RE), oral:	NOAEL	50	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Aspiration hazard:						No
Phenolpolyethoxylate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	500-2000	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Acute toxicity, by oral route:	ATE	500	mg/kg			
Acute toxicity, by dermal route:	LD50	2140	mg/kg	Rabbit		
Aspiration hazard:						No
Symptoms:						gastrointestinal disturbances
Citric acid monohydrate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route: Acute toxicity, by dermal route:	LD50 LD50	3000 >2000	mg/kg mg/kg	Rat Rat	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal	Not irritant
Serious eye damage/irritation:				Rabbit	Irritation/Corrosion) OECD 405 (Acute Eye	Eye Irrit. 2
					Irritation/Corrosion)	

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Germ cell mutagenicity:				Rat	OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Specific target organ toxicity - single exposure (STOT-SE):						May cause respiratory irritation., STOT SE 3, H335
Specific target organ toxicity - repeated exposure (STOT- RE), oral:	NOAEL	1200	mg/kg	Rat		
Symptoms:						vomiting, cornea opacity, coughing, stomach pain, mucous membrane irritation

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Mouse	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Dam. 1
Respiratory or skin sensitisation:				Guinea pig		Not sensitizising
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion
Reproductive toxicity:	NOAEL	1000	mg/kg bw/d	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT- RE), oral:	NOAEL	500	mg/kg	Rat	OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)	
Symptoms:						gastrointestinal disturbances

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Acute toxicity, by oral route:	LD50	>300-2000	mg/kg	Rat		Analogous conclusion
Acute toxicity, by oral route:	ATE	500	mg/kg			
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Irrit. 2
Serious eye damage/irritation:						Eye Dam. 1

11.2. Information on other hazards

NanoCrystal Polish						
Art.: 241999 Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting						Does not apply
properties:						to mixtures.
Other information:						No other
						relevant
						information
						available on
						adverse effects
						on health.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

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Art.: 241999							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to algae:							n.d.a.

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12.2. Persistence and						The
degradability:						surfactant(s)
						contained in
						this mixture
						complies(compl
						y) with the biodegradability
						criteria as laid
						down in
						Regulation
						(EČ)
						No.648/2004
						on detergents.
						Data to support
						this assertion are held at the
						disposal of the
						competent
						authorities of
						the Member
						States and will
						be made
						available to
						them, at their direct request
						or at the
						request of a
						detergent
						manufacturer.
12.3. Bioaccumulative						n.d.a.
potential: 12.4. Mobility in soil:						n.d.a.
12.5. Results of PBT						n.d.a.
and vPvB assessment						
12.6. Endocrine						Does not apply
disrupting properties:						to mixtures.
12.7. Other adverse						No information
effects:						available on other adverse
						effects on the
						environment.
Other information:						DOC-
						elimination
						degree(complex
						ing organic
						substance)>=
Other information:	AOX		 %			80%/28d: Yes According to
			/0			the recipe,
						contains no
						AOX.

Amides, C12-18 (even-numbered), N-[3-(dimethylamino)propyl], N'-oxides							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,68	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	15d	0,495	mg/l	Pimephales promelas	U.S. EPA ECOTOX Database	

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12.1. Toxicity to	NOEC/NOEL	21d	0,7	mg/l	Daphnia magna	OECD 211	
daphnia:						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	19,9	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,303	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC20	72h	0,705	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	68	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Biodegradable
12.3. Bioaccumulative potential:	BCF		3-71	%			
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	970	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:	Koc		34,41			,,,	20°C
Other information:	H (Henry)		17,2				25°C

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l		OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	>128	mg/l	Daphnia pulex	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.2. Persistence and degradability:		60d	40-50	%		OECD 311 (Anaerobic Biodeg. of Organic Comp. in Digested Sludge - by Measurement of Gas Production)	
12.2. Persistence and degradability:						OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable

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12.2. Persistence and degradability:	28d	79	%	OECD 301 (Ready Biodegrada Manometric Respiromet	biodegradable
12.5. Results of PBT and vPvB assessment				Test)	No PBT substance, No vPvB substance

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	440-760	mg/l	Leuciscus idus	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	72h	120	mg/l	Daphnia magna		
12.1. Toxicity to algae:	IC5	7d	640	mg/l	Scenedesmus quadricauda		Anhydrous substance
12.2. Persistence and degradability:		28d	97	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.2. Persistence and degradability:		28d	98	%		OECD 302 B (Inherent Biodegradability - Zahn- Wellens/EMPA Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		<1				Bioaccumulatio n is unlikely (LogPow < 1).
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	16h	>10000	mg/l	Pseudomonas putida	DIN 38412 T.8	
Other information:	COD		665	mg/g			
Other information:	BOD5		481	mg/g			
Other information:	ThOD		686	mg/g			

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	35d	0,686	mg/l	Pimephales promelas	U.S. EPA ECOTOX Database	Analogous conclusion
12.1. Toxicity to fish:	LC50	96h	>10	mg/l	Cyprinus caprio	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	1	mg/l	Daphnia magna	U.S. EPA ECOTOX Database	Analogous conclusion
12.1. Toxicity to daphnia:	EC50	48h	>8,6	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion

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12.1. Toxicity to algae:	NOEC/NOEL	72h	0,39	mg/l	Pseudokirchnerie	OECD 201	Analogous
				_	lla subcapitata	(Alga, Growth	conclusion
						Inhibition Test)	
12.1. Toxicity to algae:	EC50	72h	1,2	mg/l	Pseudokirchnerie	OECD 201	Analogous
					lla subcapitata	(Alga, Growth	conclusion
						Inhibition Test)	
12.2. Persistence and		28d	>60	%		OECD 301 F	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Manometric	
						Respirometry	
						Test)	
Toxicity to bacteria:	EC50	6d	100	mg/l	activated sludge		Analogous
							conclusion

Amines, tallow alkyl, e Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,13	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to daphnia:	EC50	48h	0,17	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:	EC10	21d	>0,001- 0,01	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	Analogous conclusion
12.2. Persistence and degradability:						OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.3. Bioaccumulative potential:							Not to be expected
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

20 01 29 detergents containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Recommended cleaner:

Water

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SECTION 14: Transport information

General statements

Transport by road/by rail (ADR/RID)	
14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	
Not applicable	
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	Not applicable
Classification code:	Not applicable
LQ:	Not applicable
Transport category:	Not applicable
Transport by sea (IMDG-code)	
14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	
Not applicable	
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable
Marine Pollutant:	Not applicable
EmS:	Not applicable
Transport by air (IATA)	
14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	
Not applicable	
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable
14.6. Special precautions for user	

Unless specified otherwise, general measures for safe transport must be followed. **14.7. Maritime transport in bulk according to IMO instruments**

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

Observe restrictions: Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): **REGULATION (EC) No 648/2004** 15 % or over but less than 30 %

non-ionic surfactants less than 5 % cationic surfactants

perfumes BENZYL SALICYLATE HEXYL CINNAMAL LINALOOL EUGENOL COUMARIN < 0,3 %

National requirements/regulations on safety and health protection must be applied when using work equipment.

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15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

2, 3, 8, 11, 12, 14, 15, 16

These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Skin Irrit. 2, H315	Classification according to calculation procedure.
Eye Dam. 1, H318	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents. H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Skin Irrit. — Skin irritation Eye Dam. — Serious eye damage Aquatic Chronic — Hazardous to the aquatic environment - chronic Acute Tox. — Acute toxicity - oral Aquatic Acute — Hazardous to the aquatic environment - acute Eye Irrit. — Eye irritation STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds

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The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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