

Trade name: NanoCrystal Polish**Product no.:** 241999**Current version :** 1.0.0, issued: 17.12.2020**Replaced version: -, issued: -****Region:** MT**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

NanoCrystal Polish**1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

polish

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**

Koch-Chemie GmbH

Einsteinstr. 42

D-59423 Unna

Telephone no. +49-2303-9 86 70-0

Fax no. +49-2303-9 86 70-26

1.4 Emergency telephone number

No data available.

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Eye Dam. 1; H318

Skin Irrit. 2; H315

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS05

Signal word

Danger

Hazardous component(s) to be indicated on label:

3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1-amino oxide

1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)

Hazard statement(s)

H315

Causes skin irritation.

H318

Causes serious eye damage.

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Precautionary statement(s)

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.

2.3 Other hazards

PBT assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration
			%
1	3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1-amino oxide		
	68155-09-9 939-581-9 - 01-2119978229-22	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	>= 10,00 - < 25,00 wt%
2	poly(oxy-1,2-ethanediyl), .alpha.-phenyl-omega.-hydroxy-		
	9004-78-8 500-13-6 - -	Acute Tox. 4*; H302	>= 5,00 - < 10,00 wt%
3	citric acid monohydrate		
	5949-29-1 201-069-1 - 01-2119457026-42	Eye Irrit. 2; H319	>= 5,00 - < 10,00 wt%
4	1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)		
	- 939-685-4 - 01-2119983493-26	Aquatic Chronic 3; H412 Eye Dam. 1; H318 Skin Irrit. 2; H315	< 5,00 wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(* , ** , *** , ****) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

SECTION 4: First aid measures**4.1 Description of first aid measures**

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Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

After skin contact

In case of contact with skin wash off immediately with copious amounts of water. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Use personal protective clothing. Do not inhale vapours.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Flush away residues with water.

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

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SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Have emergency shower available. Provide eye wash fountain in work area.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1-amino oxide			68155-09-9 939-581-9	
	dermal	Long term (chronic)	systemic	5	mg/kg/day
	inhalative	Long term (chronic)	systemic	3,52	mg/m ³
2	1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)			- 939-685-4	
	dermal	Long term (chronic)	systemic	112,5	mg/kg/day
	inhalative	Long term (chronic)	systemic	8,72	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1-amino oxide			68155-09-9 939-581-9	
	oral	Long term (chronic)	systemic	0,25	mg/kg/day
	dermal	Long term (chronic)	systemic	2,5	mg/kg/day
	inhalative	Long term (chronic)	systemic	0,87	mg/m ³
2	1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)			- 939-685-4	
	oral	Long term (chronic)	systemic	1,25	mg/kg/day
	dermal	Long term (chronic)	systemic	56,25	mg/kg/day
	inhalative	Long term (chronic)	systemic	2,17	mg/m ³

PNEC values

No	Substance name	CAS / EC no
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	ecological compartment	Type	Value
1	3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1-amino oxide		68155-09-9 939-581-9
	water	fresh water	30,3 µg/L
	water	marine water	3,04 µg/L
	water	fresh water sediment	0,214 mg/kg dry weight
	water	marine water sediment	0,214 mg/kg dry weight
	soil	-	0,025 µg/kg dry weight
	sewage treatment plant	-	9,7 mg/L
	secondary poisoning	-	0,5 mg/kg food
2	citric acid monohydrate		5949-29-1 201-069-1
	water	fresh water	0,44 mg/L
	water	marine water	0,044 mg/L
	water	fresh water sediment	34,6 mg/kg
	with reference to: dry weight		
	water	marine water sediment	3,46 mg/kg
	with reference to: dry weight		
	soil	-	33,1 mg/kg
	sewage treatment plant	-	1000 mg/L
3	1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)		- 939-685-4
	water	fresh water	0,017 mg/L
	water	marine water	0,002 mg/L
	water	fresh water sediment	1,7 mg/kg dry weight
	water	marine water sediment	0,17 mg/kg dry weight
	soil	-	0,331 mg/kg dry weight
	sewage treatment plant	-	10 mg/L

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material butyl
Appropriate Material nitrile

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Appropriate Material	neoprene		
Appropriate Material	Polychloroprene		
Appropriate Material	PVC		
Material thickness	>=	0,5	mm
Breakthrough time	>	480	min

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

State of aggregation
liquid
Form/Colour
liquid
green; yellow
Odour
characteristic
pH value
No data available
Boiling point / boiling range
No data available
Melting point/freezing point
No data available
Decomposition temperature
No data available
Flash point
No data available
Ignition temperature
No data available
Oxidising properties
not oxidizing
Explosive properties
The product does not have explosive properties.
Flammability
No data available
Lower explosion limit
No data available
Upper explosion limit
No data available
Vapour pressure
No data available
Relative vapour density
No data available
Relative density

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No data available

Density	
Value	1,03 g/cm ³
Reference temperature	20 °C

Solubility in water	
Comments	miscible

Solubility	
No data available	

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1-amino oxide	68155-09-9	939-581-9
log Pow		1,27	
Reference temperature		20 °C	
Source		ECHA	
2	citric acid monohydrate	5949-29-1	201-069-1
log Pow		-0,2 - 1,8	

Viscosity	
No data available	

Particle characteristics	
No data available	

9.2 Other information

Other information	
No data available.	

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

None, if handled according to intended use.

10.5 Incompatible materials

strong oxidizing agents; strong bases; strong acids

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

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

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	NanoCrystal Polish
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification /

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	labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).		
Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	citric acid monohydrate	5949-29-1	201-069-1
LD50		5400	mg/kg bodyweight
Species	mouse		
Method	OECD 401		
Source	ECHA		
Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	citric acid monohydrate	5949-29-1	201-069-1
LD50		> 2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
Acute inhalational toxicity			
No data available			
Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	citric acid monohydrate	5949-29-1	201-069-1
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Serious eye damage/irritation			
No data available			
Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1-amino oxide	68155-09-9	939-581-9
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	citric acid monohydrate	5949-29-1	201-069-1
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typhimurium		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Reproduction toxicity			
No data available			
Carcinogenicity			
No data available			
STOT - single exposure			
No data available			

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STOT - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Information on other hazards**Endocrine disrupting properties**

No data available.

Other information

No data available.

SECTION 12: Ecological information**12.1 Toxicity****Toxicity to fish (acute)**

No	Substance name	CAS no.	EC no.
1	3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1-amino oxide	68155-09-9	939-581-9
LC50		0,68	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
2	citric acid monohydrate	5949-29-1	201-069-1
LC50		440	mg/l
Duration of exposure		96	h
Species	Leuciscus idus melanotus		
Method	OECD 203		
Source	ECHA		

Toxicity to fish (chronic)

No	Substance name	CAS no.	EC no.
1	3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1-amino oxide	68155-09-9	939-581-9
NOEC		0,42	mg/l
Species	Pimephales promelas		
Method	OECD 210		
Source	ECHA		

Toxicity to Daphnia (acute)

No	Substance name	CAS no.	EC no.
1	3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1-amino oxide	68155-09-9	939-581-9
EC50		19,9	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
2	citric acid monohydrate	5949-29-1	201-069-1
EC50		1535	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	ECHA		

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

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No data available

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1-amino oxide	68155-09-9	939-581-9
log Pow		1,27	
Reference temperature		20 °C	
Source		ECHA	
2	citric acid monohydrate	5949-29-1	201-069-1
log Pow		-0,2 - 1,8	

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.
vPvB assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

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The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
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Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.
Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.
The surfactants contained in this product comply with the DetVO 648/2004/EC.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

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Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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