

**Trade name:** NanoCrystal Polish**Product no.:** 241999**Current version :** 1.0.0, issued: 17.12.2020**Replaced version:** -, issued: -**Region:** IE**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

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**

+353 1 809 2166 (National Poisons Information Centre)

**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)**

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H315 Causes skin irritation.  
H318 Causes serious eye damage.

**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	<b>3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1-amino oxide</b>			
	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	<b>poly(oxy-1,2-ethanediyl), .alpha.-phenyl-.omega.-hydroxy-</b>			
	9004-78-8 500-13-6 - -	Acute Tox. 4*; H302	>= 5,00 - < 10,00	wt%
3	<b>citric acid monohydrate</b>			
	5949-29-1 201-069-1 - 01-2119457026-42	Eye Irrit. 2; H319	>= 5,00 - < 10,00	wt%
4	<b>1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)</b>			
	- 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**

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#### 4.1 Description of first aid measures

##### General information

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 (CO<sub>2</sub>); Nitrogen oxides (NO<sub>x</sub>)

#### 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	<b>3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1-amino oxide</b>			<b>68155-09-9</b> <b>939-581-9</b>	
	dermal	Long term (chronic)	systemic	5	mg/kg/day
	inhalative	Long term (chronic)	systemic	3,52	mg/m <sup>3</sup>
2	<b>1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)</b>			<b>-</b> <b>939-685-4</b>	
	dermal	Long term (chronic)	systemic	112,5	mg/kg/day
	inhalative	Long term (chronic)	systemic	8,72	mg/m <sup>3</sup>

**DNEL value (consumer)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1-amino oxide</b>			<b>68155-09-9</b> <b>939-581-9</b>	
	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 <sup>3</sup>
2	<b>1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)</b>			<b>-</b> <b>939-685-4</b>	
	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 <sup>3</sup>

**PNEC values**

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No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	<b>3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1-amino oxide</b>		<b>68155-09-9</b> <b>939-581-9</b>	
	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	<b>citric acid monohydrate</b>		<b>5949-29-1</b> <b>201-069-1</b>	
	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	<b>1-Propanamine, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, ester with fatty acids, C18 unsaturated, Me sulphates (salts)</b>		<b>-</b> <b>939-685-4</b>	
	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

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Appropriate Material	nitrile		
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**

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

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<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	1,03	g/cm <sup>3</sup>	
Reference temperature	20	°C	
<b>Solubility in water</b>			
Comments	miscible		
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
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
<b>Viscosity</b>			
No data available			
<b>Particle characteristics</b>			
No data available			

**9.2 Other information**

<b>Other information</b>
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**

<b>Acute oral toxicity (result of the ATE calculation for the mixture)</b>	
<b>No</b>	<b>Product Name</b>
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,

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	Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).
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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

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**Toxicity to algae (acute)**

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**

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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

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section.

**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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