

Trade name: Ureum crist

Substance number: 068420

Version: 5 / CH

Date revised: 20.10.2021

Replaces Version: 4 / CH

Print date: 20.10.21

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

1.1. Product identifier

Ureum crist

Item No. 06842000

Substance / product identification

CAS-No. 57-13-6

EINECS-No. 200-315-5

INCI UREA

E-No. 927 b (Carbamid)

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

Use of the substance/preparation

Manufacture of cosmetics, food additive, Pharmaceutical excipient, biochemical research

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible
for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Voluntary product information following the Safety Data Sheet format

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

2.3. Other hazards

The product does not require a hazard warning label in accordance with Directive 67/548/EC

SECTION 3: Composition/information on ingredients ***

Molecular weight

Value 60.06 g/mol

Further ingredients ***

Urea

CAS No. 57-13-6

EINECS no. 200-315-5

Registration no. 01-2119463277-33-0007

Concentration >= 95 %

Advice: [4]

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Note

[4] Voluntary information

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air.

After skin contact

Wash off immediately with soap and water and rinse well. Remove contaminated, soaked clothing immediately and dispose of safely.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion

Let plenty of water be drunk in small gulps. In the event of symptoms take medical treatment.

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

if swallowed: Nausea, Vomiting

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

Water, Carbon dioxide, Foam, Dry chemical extinguisher

5.2. Special hazards arising from the substance or mixture

The product is not combustible. If a fire breaks out nearby evolution of dangerous gases possible. In the event of fire the following can be released: Nitrogen oxides (NOx)

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Use personal protective clothing.

Other information

Suppress vapours with water spray jet. Do not discharge into surface waters/groundwater.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Do not inhale dust.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Clean up affected area. When picked up, treat material as prescribed under Section 13 "Disposal".

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

No special requirements.

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7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value	15	25	°C
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Requirements for storage rooms and vessels

Keep container tightly closed and dry.

Storage classes

Storage class according to TRGS 510	13	Non- combustible solids
Storage category (Switzerland)	NG	Other solid hazardous substances without classification/labelling hazardous

SECTION 8: Exposure controls/personal protection

8.2. Exposure controls

General protective and hygiene measures

Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work.

Respiratory protection

Breathing apparatus in the event of aerosol.

Hand protection

Gloves	
Appropriate Material	nitrile rubber - NBR

Eye protection

necessary

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	solid		
Colour	white		
Odour	slightly ammonia-like		

pH value

Value	<	10	
Concentration/H ₂ O		100	g/l
Temperature		20	°C

Melting point

Value	appr.	134	°C
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Initial boiling point and boiling range

Remarks	Not applicable
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Flash point

Value	°C
Remarks	Not applicable

Vapour pressure

Value	0.00002	hPa
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Density

Value	1.33	g/cm ³
Temperature	20	°C
Remarks	Relative Density according specification	

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Solubility in water

Value	624		g/l
Temperature	20	°C	

Partition coefficient: n-octanol/water

log Pow	-1.56
Method	experimental

Auto-ignition temperature

Remarks	Not applicable
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Decomposition temperature

Value	> 132	°C
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Oxidising properties

evaluation	None known
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9.2. Other information**Bulk density**

Value	appr. 720	kg/m ³
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SECTION 10: Stability and reactivity**10.1. Reactivity**

None known

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

Heat. Avoid dust formation.

10.5. Incompatible materials

Nitrites, Oxidising agents, Acids, Bases

10.6. Hazardous decomposition productsnitrous oxides (NO_x), Carbon monoxide and carbon dioxide**SECTION 11: Toxicological information *******11.1. Information on toxicological effects****Acute oral toxicity (Components)****Urea**

Species	rat	
LD50	14300	mg/kg

Skin corrosion/irritation (Components)**Urea**

evaluation	non-irritant
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Serious eye damage/irritation (Components)**Urea**

evaluation	non-irritant
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Sensitization (Components)**Urea**

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Route of exposure evaluation	dermal non-sensitizing
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Urea

Route of exposure evaluation	inhalative non-sensitizing
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Mutagenicity (Components)**Urea**

evaluation	Based on available data, the classification criteria are not met.
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Reproduction toxicity (Components)**Urea**

Species	rat		
Dose		500	mg/kg
evaluation	No negative effects		

Specific Target Organ Toxicity (STOT) (Components)**Urea****Repeated exposure**

	Route of exposure oral
Species	rat
NOAEL	2250 mg/kg
Remarks	None

Experience in practice

After Swallowing: nausea. vomiting

Other information

By appropriate use of the product no health damage is known.

SECTION 12: Ecological information *****12.1. Toxicity****Fish toxicity (Components)****Urea**

Species	golden orfe (<i>Leuciscus idus</i>)		
LC50	>	6810	mg/l
Duration of exposure		96	h

Daphnia toxicity (Components)**Urea**

Species	Daphnia magna		
EC50	>	10000	mg/l
Duration of exposure		24	h

Algae toxicity (Components)**Urea**

Species	Scenedesmus quadricauda		
	>	10000	
Duration of exposure		192	h

12.2. Persistence and degradability**Biodegradability**

Value	96	%
Duration of test	16	d
Method	OECD 302B/ISO 9888/EEC 88/302,C	

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Biodegradability (Components)**Urea**

evaluation Readily biodegradable

12.3. Bioaccumulative potential**Partition coefficient: n-octanol/water**log Pow -1.56
Method experimental**12.4. Mobility in soil****General information**

No data available

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential (Components)****Urea**

The Substance doesn't meets PBT/vPvB-criteria

Urea

Does not bioaccumulate.

12.6. Other adverse effects**Behaviour in environment compartments**

Because of the n-octanol/water distribution coefficient (log pOW) accumulation in organisms is possible.

General information / ecology

Ecological injuries are not known or expected under normal use.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**Water Hazard Class WGK 1
(Germany)

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Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.