

Material safety data sheet According to EU Regulation 1907/2006 in the current version Cosmetic Urea

1. Identification of the substance/mixture and company

Trade name: Cosmetic Urea Chemical formula: CH4N2O

Humectant, moisturizer, keratolytic agent

INCI Urea CAS No.: 57-13-6

EINESCS/EC No.:

REACH pre-registration No.: 01-2119463277-33-XXXX

Utilization: Raw material for cosmetic or professional use

Supplier company identification: Elemental SRL, Piaţa Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania

Tel/Fax: +40259-436.755, www.elemental.eu

Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate

Publică București.

International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008) Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) Not a hazardous substance or mixture.

2.3 Other hazards

None known.

3. Declaration of ingredients

3.1 Substances

Formula	CH4N2O(Hill) CO(NH2)2
EC-No.	200-315-5
Molar mass	60,06 g/mol

Remarks: No hazardous ingredients

3.2 Mixture Not applicable

4. First aid measures



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4.1 Description of first aid measures

If inhaled: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Cough Nausea Shortness of breath Vomiting

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No information available.

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Not combustible. Risk of dust explosion.

Ambient fire may liberate hazardous vapours.

Fire may cause evolution of: Ammonia nitrous gases

5.3 Advice for firefighters

Special protective equipment for firefighters: Stay in danger area only with self-contained breathing apparatus.

Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information: Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).



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Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

Indications about waste treatment see section 13.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Observe label precautions.

Hygiene measures: Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Store in original container.

Further information on storage conditions: Tightly closed. Dry.

Risks from decomposition products: see section 10.3

Recommended storage temperature: Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls / personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
urea	Workers	inhalation	Long-term systemic effects	292 mg/m3
	Workers	dermal	Long-term systemic effects	580 mg/kg
	Workers	inhalation	Acute systemic effects	292 mg/m3
	Workers	dermal	Acute systemic effects	580 mg/kg
	Consumers	inhalation	Long-term systemic effects	125 mg/m3
	Consumers	dermal	Long-term systemic effects	580 mg/kg
	Consumers	oral	Long-term systemic effects	42 mg/kg
	Consumers	inhalation	Acute systemic effects	125 mg/m3
	Consumers	dermal	Acute systemic effects	580 mg/kg
	Consumers	oral	Acute systemic effects	42 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
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8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Personal protective equipment

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled and must meet the specifications of a standard EN/ISO/DIN. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye protection: Safety glasses Hand protection: full contact Glove material: Nitrile rubber Glove thickness: 0,11 mm Break through time: 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example: (full contact) KCL 741 (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Respiratory protection: required when dusts are generated.

Recommended Filter type: : Filter P 1 (acc. to DIN 3181) for solid particles of inert substances.

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer system.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form solid

Colour white

Odour ammoniacal

Odour Threshold Ammonia

pH ca. 9 at 20°C 100 g/l

Melting point 133°C Method: DIN 53181

Boiling point/boiling range decomposition below boiling point

Flash point Not applicable

Evaporation rate No information available.



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Flammability (solid, gas) The product is not flammable.

Lower explosion limit No information available.

Upper explosion limit No information available.

Vapour pressure < 0,1 hPa at 20°C

Relative vapour density No information available.

Density 1,33 g/cm3 at 20°C

Solubility(ies) No information available.

Water solubility 624 g/l at 20°C Method: OECD Test Guideline 105

Partition coefficient: n-octanol/water log Pow: -1,59 (at 25°C) Method: OECD Test Guideline 107 Bioaccumulation is not expected.

Auto-ignition temperature No information available.

Decomposition temperature No information available.

Viscosity, kinematic No information available.

Explosive properties Not classified as explosive.

Oxidizing properties none

9.2 Other data

Ignition temperature Not applicable Bulk density 720 - 760 kg/m3

10. Stability and reactivity

10.1 Reactivity

Risk of dust explosion.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Hazardous reactions: Generates dangerous gases or fumes in contact with: bases, chlorinated solvents Exothermic reaction with: metallic chlorides, Chlorites, chromates/perchromates, Fluorine, nitrates, Strong oxidizing agents, hydrogen peroxide, Titanium tetrachloride

Risk of explosion with: ammonium nitrate, calcium hypochlorite, Chlorine, chromyl chloride, Nitroso compound, sodium hypochlorite, nitrosyl compounds, phosphorus pentachloride, perchlorates, nitrites, Nitro compounds

10.4 Conditions to avoid

Conditions to avoid: Strong heating (decomposition).

10.5 Incompatible materials

Materials to avoid : no information available

10.6 Hazardous decomposition products

in the event of fire: See section 5.

11. Toxicological information



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11.1 Information on toxicological effects

Acute toxicity Product:

Acute oral toxicity: LD50 (Rat): 8.471 mg/kg

Remarks: (RTECS)

Acute inhalation toxicity: No data available Acute dermal toxicity: LD50 (Rat): 8.200 mg/kg

Remarks: (IUCLID)

Skin corrosion/irritation

Product:

Species: Rabbit Result: No irritation Remarks: (IUCLID)

Serious eye damage/eye irritation

Product: Species: Rabbit

Result: No eye irritation Remarks: (IUCLID)

Respiratory or skin sensitisation

Product:

Test Type: Human experience

Result: negative Remarks: (IUCLID)

Germ cell mutagenicity

Product:

Genotoxicity in vitro: Test Type: Ames test

Result: negative Remarks: (IUCLID)

Carcinogenicity

Product:

This information is not available.

STOT - single exposure

Product:

No data available

STOT - repeated exposure

Product:

No data available

Repeated dose toxicity



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Product:

No data available Aspiration toxicity

Product:

No data available

11.2 Other information

Product:

Substances which occur in nature

After uptake of large quantities: Cough, Shortness of breath, Nausea, Vomiting No toxic effects are to be expected when the product is handled appropriately. Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information

12.1 Summary

Toxicity Product:

Toxicity to fish: LC50 (Leuciscus idus (Golden orfe)): > 6.810 mg/l

Exposure time: 96 h Remarks: (IUCLID)

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 10.000 mg/l

Exposure time: 24 h Remarks: (IUCLID)

Toxicity to algae: IC5 (Scenedesmus quadricauda (Green algae)): > 10.000 mg/l

Exposure time: 7 d

Remarks: (Lit.) (maximum permissible toxic concentration)

Toxicity to microorganisms: EC5 (Pseudomonas putida): > 10.000 mg/l

Exposure time: 16 h

Remarks: (Lit.) (maximum permissible toxic concentration)

12.2 Persistence and degradability

Product:

Biodegradability

Result: Readily eliminated from water

Biodegradation: 96 % Exposure time: 16 d

Method: OECD Test Guideline 302B

No data available Partition coefficient: n octanol/water

: log Pow: -1,59 ()

Method: OECD Test Guideline 107

12.3 Bioaccumulative potential



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Product:

Bioaccumulation

Remarks: Bioaccumulation is not expected.

12.4 Mobility in soil

Product:

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Additional ecological information: Discharge into the environment must be avoided.

13. Disposal considerations

13.1 Waste treatment methods

Product: See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

14. Transport information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

REACH - List of substances subject to authorisation (Annex XIV): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).: Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident

hazards involving dangerous substances: Not applicable

Storage class: 10 - 13

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.



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16. Additional information

16.1 Abbreviations

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods. INCI: International Nomenclature of Cosmetic Ingredients.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.