

MATERIAL SAFETY DATA SHEET

UREA

Date of releasing: 12.08.2025 r.

Date of revision: -

Version EN: 1.0



Material Safety Data Sheet in accordance with WE 1907/2006 of 18.12.2006 – REACH and 2020/878 of 18.06.2020.

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

- 1.1 Product identifier UREA
CAS No.: 57-13-6
WE No.: 200-315-5
REACH No.: 01-2119463277-33-XXXX
- 1.2 Relevant identified uses of the substance or mixture and uses advised against.
Identified applications: raw material for industry.
Advised against applications: other than above.
- 1.3 Details of the supplier of the safety data sheet.
Distributor: TOMCHEM Sp. z o.o.
95-050 Konstantynów Łódzki
ul. Niesięcin 5A
tel. 42 683-11-83
tel/fax.: 42-636-43-18
- 1.4 Emergency telephone number 112 (general emergency phone)

SECTION 2. Hazards identification.

2.1 Classification of the substance or mixture:

Classification and labelling have been determined in accordance with Regulation (EC) 1272/2008 (as amended).
Product has not been classified as hazardous in accordance with Regulation (EC) 1272/2008.

2.2 Label elements:

Pictogram: not applicable

Signal word: not applicable

Hazard statements:

not applicable

Precautionary statements:

not applicable

2.3 Other hazards:

Annex XIII of REACH Regulation – Criteria for identifying persistent, bioaccumulative and toxic substances (PBT) and very persistent and very bioaccumulative substances (vPvB) – not applicable.
Substances with endocrine disrupting properties (in accordance with the criteria of Commission Delegated Regulation (EU) 2017/2100, Commission Regulation (EU) 2018/605) – not applicable.

SECTION 3. Composition/information on ingredients

3.1 Substances.

Product identifier	Amount	Hazard class	Hazard statement	Specific concentration limit,
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	[%]	and category codes	codes and supplementary statements	M-factor, Acute toxicity estimate ATE
UREA CAS No.: 57-13-6 WE No.: 200-315-5 REACH No.: 01-2119463277-33-XXXX	100			

Full text of H phrases in section 16.

*substance with a specific OEL value.

SECTION 4. First aid measures.

4.1 Description of first aid measures.

In case of skin contact:

Wash contaminated skin with soap and water, rinse thoroughly with water.

In case of eye contact:

Flush eyes with plenty of water for several minutes (approx. 15), holding eyelids wide open. Avoid strong water jets due to the risk of corneal damage. If irritation occurs, consult a doctor.

In case of inhalation:

In case of dizziness or nausea, take the injured person to fresh air; if there is no fast improvement, seek medical advice.

In case of swallowing:

Rinse mouth with water. Give plenty of water to drink. Do not induce vomiting. Contact a doctor immediately.

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

No known harmful effects.

4.3 Indication of any immediate medical attention and special treatment needed.

Decision of action is made by the doctor after assessing injured person's condition.

SECTION 5. Firefighting measures.

5.1 Extinguishing media:

Suitable extinguishing media: Use extinguishing methods appropriate to the ambient conditions.

Inappropriate extinguishing media: None

5.2 Special hazards arising from the substance or mixture:

The product is not flammable. During a fire, high temperatures may release toxic decomposition products, including biuret, ammonia, cyanuric acid, ammonia, and carbon dioxide.

5.3 Advice for firefighters:

Cool packaged product in fire zone with a water spray and, if possible, remove it from the danger zone. In case of a fire in an enclosed space, wear protective clothing and a compressed air breathing apparatus. Do not allow extinguishing water to enter surface water, groundwater, or the sewage system.

SECTION 6. Accidental release measures.

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6.1 Personal precautions, protective equipment and emergency procedures.

For non-emergency personnel: Notify appropriate authorities of incident. Remove anyone not involved in the incident from the hazard area.

For emergency personnel: Ensure adequate ventilation and avoid direct eye contact.

6.2 Environmental precautions.

Prevent spreading and entering sewers and water bodies.

6.3 Methods and material for containment and cleaning up.

Prevent spreading and remove by mechanical collection into appropriately marked containers for disposal in accordance with applicable regulations.

6.4 Reference to other sections.

Product waste disposal – see section 13. Personal protective equipment – see section 8.

SECTION 7. Handling and storage.

7.1 Precautions for safe handling.

Work in accordance with occupational health and safety rules: do not eat or drink, do not smoke in the workplace, wash hands after use, remove contaminated clothing and protective equipment before entering areas intended for eating.

7.2 Conditions for safe storage, including any incompatibilities.

Store in a clean, dry place. Avoid contact with moisture – it may cause clumping.

7.3 Specific end use(s).

Uses as per section 1.2. - no additional recommendations.

SECTION 8. Exposure controls/personal protection.

8.1 Control parameters:

Ensure adequate ventilation.

Maximum allowable concentration values:

Regulation of the Minister of the Family, Labour and Social Policy of 24 June 2024 on the maximum permissible concentrations and intensities of factors harmful to health in the working environment (Journal of Laws item 1017, as amended).

Chemical name and CAS number	NDS [mg/m ³]	NDSch [mg/m ³]	NDSP [mg/m ³]	Notes: labeling of substances with the notation "skin"
None				

DNEL and PNEC values.

No additional information.

8.2 Exposure controls:

It is recommended to use general ventilation of the room.



Respiratory protection.

In case of dustiness, use dust masks.

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Hand protection.

Use chemical-resistant protective gloves that meet the EN-PN 374:2005 standard. Glove's material: Choosing right gloves depends not only on material but also on brand and quality which vary between manufacturers. Resistance of the glove material can be determined after testing. Exact time of glove degradation must be determined by the manufacturer.



Eye protection.

Wear safety glasses or face mask (compliant with EN 166).



Body protection.

Wear work clothes – wash regularly.

Thermal hazards: Not applicable.

Environmental exposure controls

Do not allow to spread into the environment or enter sewers or watercourses.

SECTION 9. Physical and chemical properties.

9.1 Information on basic physical and chemical properties.

Physical state	solid
Colour	white
Odour	specific
Melting point/freezing point	132,7°C
Boiling point or initial boiling point and boiling range	no data
Flammability	product is not flammable
Lower and upper explosion limit	not applicable
Flash point	no data
Auto-ignition temperature	product is not self-igniting
Decomposition temperature	not applicable
pH	8,5 - 10 (10% mixture)
Kinematic viscosity	not applicable
Solubility	full in water
Partition coefficient n-octanol/water (log value)	no data
Vapour pressure	not applicable
Density and/or relative density	ok. 1,3g/cm ³
Relative vapour density	not applicable
Particle characteristics	Granules 1.0mm – 4.0mm – 90%

9.2 Other information:

Explosives	not applicable
Flammable gases	not applicable

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Aerosols	not applicable
Oxidising gases	not applicable
Gases under pressure	not applicable
Flammable liquids	not applicable
Flammable solids	not applicable
Self-reactive substances and mixtures	not applicable
Pyrophoric liquids	not applicable
Self-heating substances and mixtures	not applicable
Substances and mixtures, which emit flammable gases in contact with water	not applicable
Oxidising liquids	not applicable
Oxidizing solids	not applicable
Organic peroxides	not applicable
Corrosive to metals	not applicable
Desensitised explosives	not applicable

SECTION 10. Stability and reactivity.

10.1 Reactivity:

Product is not reactive.

10.2 Chemical stability:

Product is stable under normal conditions of use, storage and transport.

10.3 Possibility of hazardous reactions:

Not determined.

10.4 Conditions to avoid:

Moisture causes caking. Heating above melting point.

10.5 Incompatible materials:

Strong oxidizers, acids, alkalis, nitrates, calcium or sodium hypochlorite.

10.6 Hazardous decomposition products:

No decomposition under recommended use and storage conditions. Urea decomposes upon heating, releasing ammonia.

SECTION 11. Toxicological information.

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

a) acute toxicity	Based on available data, the classification criteria are not met.
b) skin corrosion/irritation	Based on available data, the classification criteria are not met.
c) serious eye damage/irritation	Based on available data, the classification criteria are not met.

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|--------------------------------------|---|
| d) respiratory or skin sensitisation | Based on available data, the classification criteria are not met. |
| e) germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| f) carcinogenicity | Based on available data, the classification criteria are not met. |
| g) reproductive toxicity | Based on available data, the classification criteria are not met. |
| h) STOT-single exposure | Based on available data, the classification criteria are not met. |
| i) STOT-repeated exposure | Based on available data, the classification criteria are not met. |
| j) aspiration hazard. | Based on available data, the classification criteria are not met. |

11.2 Information on other hazards.

Substances with endocrine disrupting properties (in accordance with the criteria of Commission Delegated Regulation (EU) 2017/2100, Commission Regulation (EU) 2018/605) – not specified.

SECTION 12. Ecological information.

12.1 Toxicity:

Product is not classified as hazardous to the environment.

12.2 Persistence and degradability:

Urea is biodegradable under the influence of bacteria and fungi.

12.3 Bioaccumulative potential:

Product does not bioaccumulate.

12.4 Mobility in soil:

Urea has low mobility.

12.5 Results of PBT and vPvB assessment:

Does not meet the PBT and vPvB criteria.

12.6 Endocrine disrupting properties:

No substances that disrupt functioning of the endocrine system.

12.7 Other adverse effects:

No additional information.

SECTION 13. Disposal considerations.

13.1 Waste treatment methods.

Disposal of waste and disposable packaging should be handled by specialized companies. Remaining waste should be stored in original containers. Dispose in accordance with applicable regulations. Empty, cleaned packaging should be disposed (including recycling) in accordance with applicable regulations.

Law dated 8 January 2013 on waste. (Journal of Laws 2013 item 21 as amended).

Law dated 13 June 2013 on the management of packaging and packaging waste. (Journal of Laws 2013 item 888 as amended).

Regulation of the Minister of Climate of January 02, 2020 on the waste catalog (Journal of Laws 2020 item 10 as amended).

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SECTION 14. Transport information.

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.

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments.

Not applicable.

SECTION 15. Regulatory information.

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006 (REACH)

Law dated 24 October 2011 on the transport of hazardous materials (Journal of Laws 227 item 1367 of 2011, as amended),

Government Statement of 6 March 2025 on the entry into force of the amendments to Annexes A and B to the Agreement concerning the international carriage of dangerous goods by road (ADR), done at Geneva on 30 September 1957.

Law dated 8 January 2013 on waste. (Journal of Laws 2013 item 21 as amended)

Law dated 13 June 2013 on the management of packaging and packaging waste. (Journal of Laws 2013 item 888 as amended),

Announcement of the Minister of Health of 2 March 2015 on the announcement of the consolidated text of the Regulation of the Minister of Health on the labelling of packaging of hazardous substances and hazardous mixtures and certain mixtures (Journal of Laws 2015, item 450)

Law dated 25 February 2011 on chemical substances and their mixtures (Journal of Laws 2011 No. 63 item 322, as amended),

Law dated 26 June 1974 Labour Code (consolidated text: Dz.U. 21 item 94 of 1998 as amended),

Regulation of the Minister of Family, Labour and Social Policy of 24 June 2024 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Item 1017 with later amendments).

Regulation of the Minister of Climate of 2 January 2020 on the waste catalogue (Journal of Laws 2020, item 10).

15.2 Chemical safety assessment.

No chemical safety assessment.

Annex XIV of the REACH Regulation – List of substances subject to authorisation: not applicable

SVHC substances – Candidate list of substances of very high concern awaiting authorisation: not applicable

Annex XVII of the REACH Regulation – Restrictions on the manufacture, placing on the market and use of certain hazardous substances, mixtures and articles: not applicable

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SECTION 16. Other information.

H phrases:

Not applicable.

Description of abbreviations, acronyms and symbols used:

NDS – Maximum allowable concentration

NDSP – Maximum allowable ceiling concentration

NDSch – Maximum allowable momentary concentration.

DNEL – Level of exposure to a substance above which humans should not be exposed.

PNEC – concentration of chemical which marks the limit at which below no adverse effects of exposure in ecosystem are measured.

LC50 - (lethal concentration) - median lethal concentration, a statistically determined concentration of a substance, after exposure to which 50 percent of the organisms (exposed to the substance) can be expected to die during the exposure or during a specified contractual post-exposure period.

LD50 - (lethal dose) - medial lethal dose, the statistically determined size of a single dose of a substance, after administration of which 50% of exposed test organisms can be expected to die.

EC50 - (effective concentration) - medial effective concentration, statistically calculated concentration that induces in the environmental medium the specified effect in 50% of the experimental organisms under specified conditions

NOEC (no observed effects concentration) - the highest concentration for which there is no statistically or biologically significant increase in the frequency or severity of the effects of the substance in the test organisms relative to the control sample.

vPvB - Very persistent and very bioaccumulative substance

PBT - persistent, bioaccumulative and toxic substances

ADR – European agreement on the road transport of hazardous goods.

RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail

IMDG – International Maritime Dangerous Goods Code

IATA – Regulation on the transport of dangerous goods issued by the International Air Transport Association

Trainings:

Before starting work with the product it is mandatory to subject employees to EHS training in connection with the presence of chemical factors in work environment. Conduct, document and familiarize employees with the results of the occupational risk assessment at the work station related to the presence of chemical factors.

SOURCE MATERIALS:

Annex to Regulation (EU) 2020/878 of 18 June 2020.

Regulations mentioned in section 15 of the MSDS.

Changes to the previous version:

Section	Description

The information contained in the safety data sheet applies only to the product listed in title. Data contained in safety data sheet should be treated only as an help for safe use of the product. Since conditions of storage, transport and use are beyond our control they cannot constitute a guarantee in the legal sense. In each case the statutory provisions and any rights of third parties must be observed. Safety data sheet does not constitute an assessment of hazards in the workplace. The product should not be used for purposes other than those specified in section 1 without prior consultation with TOMCHEM Sp. z o.o.

End of document.