



TOROS TARIM
SAFETY DATA SHEET

Urea 46% Nitrogen

Commission Regulation (EU) 2020/878 of 18 June 2020.

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	Urea 46% Nitrogen
CAS No.	57-13-6
EC No.	200-315-5
Product description	Inorganic Chemical fertilizer

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

Identified uses It is used as fertilizer in agricultural applications.

1.3. Details of the supplier of the safety data sheet

Supplier	Toros Tarım Sanayi ve Ticaret A.Ş. Tekfen Tower Büyükdere Cad. No:209 34394 4. Levent Şişli / İstanbul T: +90 212 357 02 02 F: +90 212 357 02 31 www.toros.com.tr
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1.4. Emergency telephone number

Ceyhan Production Facilities: Tel: 0322 634 22 22
Samsun Production Facilities: Tel: +90 362 256 09 80

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Not classified.
Environment	Not classified.

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008

Not Classified. No pictogram is required.

Hazard Statements

Not classified.

Precautionary Statements

Not classified.

2.3. Other hazards

Inhalation	May cause respiratory tract irritation.
Ingestion	Ingestion of small amounts of toxic junk. In case of ingestion in high quantities, may cause gastrointestinal disturbances.
Skin contact	May cause slight irritation.
Eye contact	May cause irritation.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Name	EC No.	CAS No.	Molecular Weight	Classification (EC 1272/2008)
Urea 46% Nitrogen	200-315-5	57-13-6	60.06 g/mol	---

The Full Text for all Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Wash your nose and mouth with plenty of water. Remove to fresh air. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly with water. If a large amount is swallowed, get medical attention.

Skin contact

Wash with soap and water. Get medical attention if any discomfort continues.

Eye contact

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Continue to rinse get medical attention.

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

Inhalation Upper respiratory tract irritation. Cough.

Ingestion Nausea, vomiting.

Skin contact Slight irritation.

Eye contact Slight irritation, redness.

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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

This product is not flammable. Water, carbon dioxide, foam, powder.

Unsuitable fire extinguishers:

No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards

In case of fire, toxic gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours. Clear fire area of all non-emergency personnel. Move container from fire area if it can be done without risk. Prevent fire-fighting water from running into sewers and watercourses. Take a dike to keep the water under control.

Protective equipment for fire-fighters

In case of fire use self-contained breathing apparatus and full protective suit.

Protective face mask, protective gloves and safety helmet.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.
Avoid inhalation of dust. Avoid dust formation.

6.2. Environmental precautions

Avoid discharge into water courses or onto the ground. In case of spills or discharges to the water source, it is necessary to apply to the relevant environmental agency or other appropriate inspection centers immediately.

6.3. Methods and material for containment and cleaning up

Large Spillages: Clean up spills with a vacuum cleaner. If not possible, collect with a shovel, broom or similar tool.
Small Spillages: Remove small spills with vacuum cleaner.

6.4. Reference to other sections

For personal protection, see section 8.
See section 11 for additional information on health hazards.
For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not eat, drink or smoke when using the product.
Avoid dust formation. In case of dust formation use appropriate mask. Protect from direct sunlight.

7.2. Conditions for safe storage, including any incompatibilities

Store in a dry, cool place in tightly closed original packaging. Keep away from food, drinks and animal feed. Protect itself from direct sunlight. Store away from sources of heat and ignition.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

The product does not contain substances that require exposure limits.

8.2. Exposure controls

Protective equipment



Process conditions

Provide eyewash, quick drench.

Engineering measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of dust.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. Protective equipment is required to protect from ammonia gases when stored or used in confined spaces.

Hand protection

Use protective gloves made of: Rubber, neoprene or PVC. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.



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Eye protection

Wear dust resistant safety goggles where there is danger of eye contact.

Hygiene measures

Wash hands after contact. Change work clothing daily before leaving work place.
Wash contaminated clothing before reuse. When using do not eat, drink or smoke.

Skin protection

Wear apron or protective clothing in case of splashes.

Environmental Exposure Controls

Please act in accordance with local and national laws.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Granular.
Colour	White
Odour	Ammonia smell, in closed areas.
Solubility	Soluble in water. 480 g / l @ 20 ° C
Melting Point	133 - 135 °C
Boiling point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	No information available.
Relative density	No data available.
pH-Value	No information available.
Vapour pressure @20°C	No information available.
Bulk density @20°C	No information available.
Viscosity	No information available.
Decomposition temperature	No information available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing properties.
Partition Coefficient (n-octanol / water)	log Pow: (-2.59) – (-1.59)

9.2. Other information

No information required.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

This product does not show any special reactive hazard.



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10.2. Chemical stability

Stable under normal temperature conditions and recommended use. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Not polymerization occurs.

10.4. Conditions to avoid

Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

It is not available under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity

LD 50, Oral (rat) 8471 mg/kg

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Based on available data the classification criteria are not met. May causes slight eye irritation.

Respiratory or skin sensitisation:

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

STOT-single exposure

No information available.

STOT-repeated exposure

No information available.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Reproductive Toxicity

Based on available data the classification criteria are not met.

Aspiration Toxicity

Based on available data the classification criteria are not met.

Inhalation

May be irritating to throat and respiratory system in case of intensive exposure

Ingestion

Excessive ingestion may cause gastrointestinal disturbances.

11.2. Information on other hazards

No information available.



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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

The product is not classified as toxic to the environment.

Fish, LC50 - *Poecilia reticulata* (guppy) - 17,500 mg/l - 96 hours (urea)

Aquatic invertebrate, EC50 - *Daphnia magna* (daphnia) - 3,910 mg/l - 48 hours (urea)

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

Soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

No information available

12.7. Other adverse effects

It should not be released uncontrollably around the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Avoid access to water sources and channels.

The product packaging must be completely emptied and must be disposed of within the framework of legislation.

The Environmental Officer will be informed about all major rashes.

SECTION 14: TRANSPORT INFORMATION

General The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number or ID number

Not available.

14.2. UN proper shipping name

Not available.

14.3. Transport hazard class(es)

Not available.

14.4. Packing group

Not available.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

Not available.

14.7. Maritime transport in bulk according to IMO instrument

Not available.



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SECTION 15: REGULATORY INFORMATION

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

- Commission Regulation (EU) 2020/878 of 18 June 2020.
- Health and Safety at Work etc. Act 1974 (as amended).
- 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) (as amended).
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Restrictions (Annex XVII Regulation 1907/2006)

There are no known restrictions on the use of this product.

Seveso Directive - Control of major accident hazards

Not relevant.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet

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

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

CAS: Chemical Abstracts Service.

ATE: Acute Toxicity Estimate.

LC₅₀: Lethal Concentration to 50 % of a test population.

LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).

EC₅₀: 50% of maximal Effective Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

Revision Comments

Revised in compliance with current regulations.

Issued By

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Issued Note

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