



TOROS TARIM SAFETY DATA SHEET

Ultra Nitrogen (%33 N)

According to Regulation (EU) No 2015/830

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

- 1.1. Product identifierProduct nameUltra Nitrogen (%33 N)
- **1.2. Relevant identified uses of the substance or mixture and uses advised against**

 Identified uses
 It is used in agricultural, industrial and consumer products.
- 1.3. Details of the supplier of the safety data sheet

Manufacturer

Center: 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

1.4. Emergency telephone number

Samsun Production Facilities: +90 362 256 09 80

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

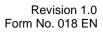
Physical and Chemical Hazards	Not classified.
Human health	Skin Irrit. 2; H315; Eye Irrit. 2; H319
Environment	Not classified.

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

2.2. Label elements

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







TOROS TARIM SAFETY DATA SHEET

Ultra Nitrogen (%33 N)

According to Regulation (EU) No 2015/830

2.3. Other hazards

Inhalation	Acid vapours may cause irritation in throat and lungs
Skin contact	Contact with skin cause skin irritation and redness.
Eye contact	Causes irritation, redness to the eyes.
Ingestion	When ingested, causes irritation to the digestive tract.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Name	EC No.	CAS No.	Content %	Classification (EC 1272/2008)
Urea	200-315-5	57-13-6	50	
Ammonium sulphate	231-984-1	7783-20-2	35,6	
Sulphuric acid	231-639-5	7664-93-9	6,75	Skin Corr. 1A; H314
Ammonia	215-647-6	1336-21-6	2,65	Skin Corr. 1B - H314 STOT SE 3 - H335 Aquatic Acute 1 - H400

Name	Specific Concentration Limits
Sulphuric acid	Eye Irrit. 2; H319: 5 % ≤ C < 15 % Skin Corr. 1A; H314: C ≥ 15 % Skin Irrit. 2; H315: 5 % ≤ C < 15 %

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

Composition Comments

- The data shown are in accordance with the latest EC Directives.
- Exposure limits are displayed in section 8.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Remove affected person from source of contamination. Chemical burns should be treated by a doctor. Show this safety data sheet.

Inhalation

Remove affected person from source of contamination. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Call doctor immediately.

Ingestion

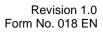
DO NOT INDCUE VOMITING AND DO NOT GIVE ANYTHING TO DRINK TO AN UNCONCIOUS PERSON. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.

Skin contact

Remove affected person from source of contamination. Take off immediately all contaminated clothing. Rinse immediately with plenty of water. Get medical attention if symptoms occur.

Eye contact

Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse get medical attention.





TOROS TARIM SAFETY DATA SHEET

<u>Ultra Nitrogen (%33 N)</u>

According to Regulation (EU) No 2015/830

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

Inhalation Upper respiratory tract irritation.

Ingestion Nausea, vomiting.

Skin contact Serious irritation. May cause skin burns.

Eye contact Blurred vision. 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

Use fire- extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards

In case of fire, toxic gases may be formed. Carbon monoxide (CO). Carbon dioxide (CO₂).

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. Dike and collect extinguishing water. Dispose residues of extinguishing water in accordance with local regulations.

Protective equipment for fire-fighters

In case of fire, wear self-contained breathing apparatus and full protective clothing. Face mask, protective gloves and safety helmet.

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 vapours. Avoid contact with eyes. Provide adequate ventilation. Pay attention to slippery bases and surfaces in case of spillage.

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

DO NOT TOUCH THE SPILLAGES.

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

Avoid inhalation of vapours. Avoid contact with eyes. Wash hands and contaminated areas before leaving the workplace. Good personal hygiene is necessary. Do not eat, drink or smoke when using the product. Observe good chemical hygiene practices. Containers should be stored tightly closed. Avoid direct sunlight. Avoid contact with bases.



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According to Regulation (EU) No 2015/830

7.2. Conditions for safe storage, including any incompatibilities

Store in a dry, cool place in tightly closed original packaging. It should be stored away from combustible materials, alkalis, metals and strong bases. Storage must be grounded. Keep away from food, drink and animal feeding. Protect from direct sunlight.

Store away from: Strong alkalis. Unsuitable containers: Metals.

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

Occupational exposure limits

Name	STD	TWA - 8 Hrs	STEL - 15 Min	Notes
Sulphuric acid	WEL	0.2 mg/m ³		ACGIH
Sulphuric acid	PEL	1 mg/m ³		OSHA - ABD
Ammonia	WEL	25 ppm		ACGIH
Ammonia	PEL	50 ppm	35 ppm	OSHA - ABD

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 vapours.

Respiratory equipment

No special equipment required under normal conditions. If vapour concentration is higher than the exposure limit, proper respiratory protective equipment should be used.

Hand protection

Wear suitable protective gloves when there is a risk of skin contact. Neoprin, nitrile, polyethylene or PVC. The most appropriate glove should be selected in consultation with the glove supplier. The glove supplier will be able to provide information about the permeability / deterioration time of the glove material.

Eye protection

Appropriate safety goggles should be used if there is a risk of contact with eyes.

Hygiene measures

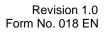
Wash hands after contact. Change work clothing daily before leaving workplace. Wash contaminated clothing before reuse. When using do not eat, drink or smoke.

Skin protection

Use proper protective gloves when there is risk of skin contact (PVC).

Environmental Exposure Controls

Please act in accordance with local and national laws.





SAFETY DATA SHEET

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According to Regulation (EU) No 2015/830

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Solid/ granule
Colour	White, brown
Odour	Odourless
Solubility	No data available
Melting Point	No data available
Initial boiling point	No data available
Flash point	No data available
Density	No data available
pH-Value	No data available
Flammability	No data available
Vapor pressure @ 20 ° C	No data available
Decomposition temperature	No data available
Partition Coefficient (n-octanol/water)	No data available.
Oxidative properties	Not oxidative.
Explosive properties	Not explosive.

9.2. Other information

No information available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal temperature conditions and recommended use.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

No data available.

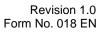
10.6. Hazardous decomposition products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NO_x)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity- Product Inhalation ATE: 5,0 mg/m³





TOROS TARIM Safety data sheet

Ultra Nitrogen (%33 N)

According to Regulation (EU) No 2015/830

Acute toxicity- Ammonia Inhalation (rat) : LC 50 19.960 mg/ m³

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Causes serious 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

Based on available data the classification criteria are not met.

STOT-repeated exposure

Based on available data the classification criteria are not met.

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 harmful by inhalation. It may damage the nose, throat, lungs and bronchi system.

Ingestion

Harmful if swallowed. May cause chemical burns in mouth, esophagus and stomach.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Based on available data the classification criteria are not met. The product is not considered as harmful to the environment.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil No data available.

No data available.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

It should not be released to the environment.



SAFETY DATA SHEET

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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.

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

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. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not available.

SECTION 15: REGULATORY INFORMATION

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

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.



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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.
EC No: European Community number
CAS: Chemical Abstracts Service.
LC₅₀: Lethal Concentration to 50 % of a test population.
LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.
SEA: Classification, labeling, packaging regulation

BHOT: Specific Target Organ Toxicity

Classification justification

Skin Irrit. 2 - H315	: calculation method
Eye Irrit. 2; H319	: calculation method

Hazard statements in full

H315 Causes skin irritation.H319 Causes serious eye irritation.

Information Sources

This SDS is prepared based on the information received from the product owner. ECHA – www.echa.europa.eu

Revision Comments Revised according to current legislation (CLP).

Issued By Betül Sevim/ CRAD gbf@crad.com.tr

Issued Note

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