



TOROS TARIM SAFETY DATA SHEET

Composite Fertilizer

According to Regulation (EU) No 2015/830

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

1.1. Product identifier

Product name	Composite Fertilizer
Product type	NPK 15.15.15 Composite Fertilizer (15.15.15 Gold NPK 15.15.15 Composite Fertilizer (15.15.15 Gold with URE) NPK 15.15.15 Composite Fertilizer (with 15.15.15 URE) NP 20.20.0 Composite Fertilizer (20.20.0) NP 20.20.0 Composite Fertilizer (with 20.20.0 with URE) NPK 12.30.12 Composite Fertilizer rtilizer (12.30.12) NPK 12.30.12 Composite Fertilizer (12.30.12 with URE) NPK 15.15.15 Composite Fertilizer (15.15.15) NPK 25.5.10 Composite Fertilizer (25.5.10) NPK 25.5.10 Composite Fertilizer (with 25.5.10 URE) NPK 17-16-12 Mixed Fertilizer NPK 13-24-12 Composite Fertilizer NPK 13-25-5 Composite Fertilizer NPK 13-24-12 Composite Fertilizer

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

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

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.



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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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Name	EC No.	CAS No.	Content	Classification (EC 1272/2008)
Ammonium Sulphate	231-984-1	7783-20-2	-----	-----
Urea	200-315-5	57-13-6	-----	
Mono Ammonium Phosphate	231-764-5	7722-76-1	-----	-----
Diammonium Phosphate	231-987-8	7783-28-0	-----	-----
Potassium chloride	231-211-8	7447-40-7	-----	-----

Composition Comments

- The data shown are in accordance with the latest EC Directives.
- The neutralization reaction of anhydrous ammonia and phosphoric acid occurs as a result of the chemical fertilizer, which contains 18% nitrogen and 46% P₂O₅.
- It may also contain one or more of the following additives: mono ammonium phosphate, fluoride, filler, iron and magnesium.
- Exposure limit values are displayed in Section 8.

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 if any discomfort continues.

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 Negative effect is not expected.

Eye contact Slight irritation, redness.



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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 and dust should be used as an extinguisher.

Unsuitable fire extinguishers:

No data available

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). Ammonia gas, phosphorus oxides, nitrogen oxides.

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.

Protective equipment for fire-fighters

Use respiratory protective equipment and full protective clothing in case of fire.

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 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: Shovel into dry containers. If not, collect with a shovel, broom or similar tool. If there is no degradation and dry, use again. Ensure that the ventilation is adequate.

Small Spillages: Remove small spills with vacuum cleaner. If there is no degradation and dry, use again. Ensure that the ventilation is adequate.

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. The containers used for storage should be stainless steel. Keep away from food, drinks and animal feed. Protect yourself from direct sunlight.



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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

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
General powder	TLV-OSHA	5 mg/m ³ (respirable particles)	15 mg/m ³ (total dust)	---	---	

TLV: Threshold Limit Value

OSHA: Occupational Safety and Health Administration

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.

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.

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	Brown / Black
Odour	Ammonia smell
Solubility	Soluble in water



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Boiling point	No data available.
Melting Point	No data available.
Relative density	No data available.
pH-Value	7.0 (10% solution)
Vapour pressure @20°C	<1 mm Hg
Bulk density @20°C	~ 0.9 gr / cm ³ (loose) ~ 1.0 gr / cm ³ (compressed)
Explosion properties	No data available.
Viscosity	No data available.

9.2. Other information

No information required.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

This product does not show any special reactive hazard.

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

Alkalis, strong acids, copper and its alloys.

10.6. Hazardous decomposition products

When overheated, the product melts and decomposes to produce toxic smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

LD 50, Oral – rat >2000 mg/kg (Method: Calculation)

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.



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Reproductive 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.

Eye contact

May causes slight eye irritation.

Skin contact

Based on available data the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Based on available data the classification criteria are not met.

12.2. Persistence and degradability

No data available. Stable and suitable for water and soil balance.

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. Other adverse effects

It should not be released uncontrollably around the periphery. May be harmful for aquatic life.

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

Not available.

14.2. UN proper shipping name

Not available.

14.3. Transport hazard class(es)

Not available.

14.4. Packing group

Not available.



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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.
Regulation (EC) No 1907/2006.

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.

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Revised in compliance with current regulations.

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Issued Note

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