



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 Types	Super Composite Fertilizer	12.18.12+Zn+0,2B
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
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REACH Only Representative

REACH GLOBAL SERVICES S.A.

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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	Aquatic Chronic 3 - H412

2.2. Label elements

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

Hazard Statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local regulations.



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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)	Specific Concentration Limits
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	-----	-----	
zinc oxide	215-222-5	1314-13-2	<2%	Aquatic Acute 1 - H400 M= 1 Aquatic Chronic 1 - H410 M= 1	
Borax pentahydrate	215-540-4	12179-04-3	<1%	Eye Irrit. 2-H319 Repr. 1B-H360	Repr. 1B; : C ≥ 6.5 %

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 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.



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

Inhalation	Upper respiratory tract irritation. Cough.
Ingestion	Nausea, vomiting.
Skin contact	Slight irritation, redness.
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, dust should be used as 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

Avoid breathing fire vapours. Clear fire area of all non-emergency personnel.

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. In presence of powdery product, use full-face protective mask with filter.

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

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.



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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.

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
Zinc oxide	TLV	---	10 mg/m ³	---	---	---
General powder	TLV-OSHA	5 mg/m ³ (respirable particles)	15 mg/m ³ (total dust)	---	---	---

TLV: Threshold Limit Value

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

P2 type dust mask should be used when dust concentration is high. If there is gassing, a full-face gas mask or a tubular mask should be used.

Eye protection

Appropriate safety goggles (EN 166) or face order should be used.

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.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Colour	Granül
Odour	Brown / Black
Solubility	Ammonia smell, in closed areas.
Boiling point	Soluble in water.
Melting Point	No data available.
Relative density	No data available.
pH-Value	No data available.
Bulk density	~ 0.9 gr / cm ³ (loose) ~ 1.0 gr / cm ³ (compressed)
Oxidation	7 (10% solution)
Vapor pressure @ 20 °C	<1 mm Hg

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

Alkalies, strong acids, copper and its alloys.

10.6. Hazardous decomposition products

Stable under normal temperature conditions. If the product reacts with acid or decomposes, ammonia gas may be released..

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

LD 50 2950 mg/kg Oral – rat (OECD Guideline 401)

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.



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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.

Inhalation

May irritates 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

Harmful to aquatic life with long lasting effects

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.

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.



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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.
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.

Classification procedures

Aquatic Chronic 3 - H412 Hesaplama yöntemi



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Hazard Statements in Full

H319	Causes serious eye irritation.
H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Revision Comments

First issue.

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Issued Note

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