



## **TOROS TARIM** **SAFETY DATA SHEET**

### **Toros DAP 18-46-0**

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** Toros DAP 18-46-0 Diammonium Phosphate 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  
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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**

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



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#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

##### 3.2. Mixtures

Name	REACH registration number	EC No.	CAS No.	Content	Classification (EC 1272/2008)
Diammonium Phosphate	01-2119490974-22-XXXX	231-987-8	7783-28-0	--	---

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.
- The neutralization reaction of anhydrous ammonia and phosphoric acid occurs as a result of the chemical fertilizer, which contains 18% nitrogen and 46% P<sub>2</sub>O<sub>5</sub>.
- It may also contain one or more of the following additives: mono ammonium phosphate, fluoride, filler, iron and magnesium.

#### 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.

##### 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 should be used as an extinguisher.

###### **Unsuitable fire extinguishers:**

Chemical extinguisher, foam sand, steam should not be used.

##### 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 (CO<sub>2</sub>). Ammonia gas, phosphorus oxides, nitrogen oxides.



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#### 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**

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. Cover and move the containers. Flush the area with water.

**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. 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
General powder	TLV-OSHA	5 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>	---	---	

TLV: Threshold Limit Value

OSHA: Occupational Safety and Health Administration



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#### **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**

<b>Appearance</b>	Granular.
<b>Colour</b>	Brown / Black
<b>Odour</b>	Ammonia smell, in closed areas.
<b>Solubility</b>	558 g/L
<b>Melting Point</b>	155 °C
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Relative density</b>	No data available.
<b>pH-Value</b>	7-8 (10% solution)
<b>Vapour pressure @20°C</b>	<1 mm Hg
<b>Bulk density @20°C</b>	~ 0.93 gr / cm <sup>3</sup>
<b>Explosive properties</b>	No data available.



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**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)

**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**

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 irritating to throat and respiratory system in case of intensive exposure



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**Ingestion**

Excessive ingestion may cause gastrointestinal disturbances.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**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.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**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.

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**SECTION 14: TRANSPORT INFORMATION**

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**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.



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#### **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.  
LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.  
LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).  
EC<sub>50</sub>: 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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