



# SAFETY DATA SHEET (SDS / MSDS)

## MONOAMMONIUM PHOSPHATE (MAP 12-61-0)

Prepared according to Globally Harmonized System (GHS)

## SECTION 1: IDENTIFICATION

### Product Identifier

Product Name: Monoammonium Phosphate  
Commercial Name: MAP 12-61-0  
Chemical Name: Ammonium Dihydrogen Phosphate  
CAS Number: 7722-76-1  
EC Number: 231-764-5  
Molecular Formula:  $NH_4H_2PO_4$

Recommended Use:  
Agricultural fertilizer, fertigation systems, hydroponic nutrient formulations, industrial applications.

### Company Identification

Basekim Kimyasal Ürünler LTD  
Turan Güneş Blv. Ilkbahar Mah.  
Sınpaş Altınoran Tower 2, Floor 2, Unit 146  
Ankara, Turkey

Telephone: +90 (312) 514 7055 / 514 7081

Emergency Contact (Logistics): 88552948

Health Emergency (24h):  
Basekim Emergency Information Center - International collect calls accepted

## SECTION 2: HAZARD IDENTIFICATION

This product is not classified as hazardous according to current GHS regulations under normal handling and storage conditions.

Possible exposure to dust may cause mild irritation to eyes, skin, and respiratory system.



## Potential Health Effects

### Inhalation:

Dust may irritate nose, throat, and respiratory tract.

### Skin Contact:

Prolonged contact may cause mild irritation or dryness.

### Eye Contact:

May cause temporary redness and irritation.

### Ingestion:

Large quantities may cause gastrointestinal discomfort.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Monoammonium Phosphate (MAP)  $\geq 99\%$

Typical Nutrient Content:

- Nitrogen (N): 12% Min
- Available Phosphate ( $P_2O_5$ ): 61% Min

## SECTION 4: FIRST AID MEASURES

### Inhalation

Move person to fresh air. Seek medical attention if symptoms persist.

### Skin Contact

Wash affected area thoroughly with soap and water.

### Eye Contact

Flush eyes carefully with clean water for at least 15 minutes.

### Ingestion

Rinse mouth with water. Do not induce vomiting unless instructed by medical personnel.

## SECTION 5: FIRE FIGHTING MEASURES



The product is non-flammable and non-explosive.

Suitable extinguishing media include water spray, foam, dry chemical powder, or carbon dioxide depending on surrounding materials.

Thermal decomposition may produce ammonia fumes, nitrogen oxides, and phosphorus oxides.

Firefighters should wear self-contained breathing apparatus in enclosed areas.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Avoid dust formation during cleanup.

Collect spilled material mechanically using appropriate equipment and transfer into suitable containers for reuse or disposal.

Prevent material from entering drains, groundwater, or natural waterways.

## SECTION 7: HANDLING AND STORAGE

Handle in well-ventilated areas.

Avoid excessive dust generation and inhalation.

Store in tightly closed original packaging in a dry, cool, and ventilated environment away from moisture and direct sunlight.

Keep away from strong alkaline substances and incompatible chemicals.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Use suitable personal protective equipment during handling.

Recommended PPE:

- Safety goggles
- Protective gloves
- Dust mask when ventilation is insufficient
- Protective work clothing

Ensure adequate ventilation in working areas.



## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White crystalline powder  
Odor: Odorless  
Solubility: 100% soluble in water  
pH (1% solution): 4.0 – 5.0  
Density: Approx. 1.8 g/cm<sup>3</sup>  
Flash Point: Not applicable  
Flammability: Non-flammable  
Explosion Hazard: None

## SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions.

Avoid exposure to excessive moisture and high temperatures.

Incompatible with strong alkaline materials.

Hazardous decomposition products may include ammonia and phosphorus oxides under fire conditions

## SECTION 11: TOXICOLOGICAL INFORMATION

Low acute toxicity under normal industrial use conditions.

Dust exposure may cause temporary irritation to eyes, skin, and respiratory system.

No known carcinogenic effects under normal use conditions.

## SECTION 12: ECOLOGICAL INFORMATION

Large uncontrolled releases may contribute to nutrient pollution in aquatic environments.

Product is highly water soluble.

No significant bioaccumulation expected.



## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of product and packaging according to local environmental regulations.

Do not discharge directly into surface water or sewage systems.

## SECTION 14: TRANSPORT INFORMATION

This product is not classified as dangerous goods according to ADR, RID, IMDG, or IATA transport regulations.

UN Number: Not regulated

Transport Class: Non-Hazardous

## SECTION 15: REGULATORY INFORMATION

REACH Compliant

Suitable for international export markets and industrial applications.

Manufactured under industrial quality control standards.

## SECTION 16: OTHER INFORMATION

The information contained in this Safety Data Sheet is based on available technical data and practical experience. The information is believed to be accurate and reliable for normal industrial handling and use. Users are responsible for evaluating the suitability of the product for their specific applications and compliance with applicable regulations.