

## SAFETY DATA SHEET

### Material Safety Data Sheet

*Safety Data Sheet according to regulation No 1907/2006/EU, as it has been adjusted and is currently in vigor.*

## 1 – Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name:** FAST GROW 12-61-0 (MAP)

**Catalogue No.:** PR.116.002

### 1.2 Relevant identified uses of the substance or mixture and non-indicated uses

**Identified uses:** Fertilizer

### 1.3 Details of the supplier of the safety data sheet

**Company Identity:** DEMIRTZOGLU & ASSOCIATES SA

**Address:** 1 Ermou & Theotokopoulou str.,

ZIP. 144 52, Metamorphosis

**Telephone:** +30 210 284 5891

**email :** info@humofert.gr

### 1.4 Emergency call number:

Poison Center num: +30 210 7793777

## 2 – Hazards identification

### 2.1 Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 (CLP):

**The product is not classified.**

### 2.2 Labeling

According to Regulation (EC) No 1272/2008 (CLP):

**The product does not need to be labelled.**

### 2.3 Other hazards

According to Regulation (EC) No 1272/2008 (CLP):

**Not known.**

## 3 - Composition / Information on ingredients

### 3.1 Substance:

## 4 – First aid measures

### 4.1 First aids

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, seek medical advice.

**Swallowing:** Drink a lot of water. Do not induce vomiting. If symptoms persist, seek medical advice. Immediately call a POISON CENTER or doctor/physician.

**Skin contact:** Wash with soap and plenty of water. Remove immediately all contaminated clothing. Seek medical advice if necessary.

**Eye contact:** Rinse with water for about 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, seek medical advice.

### 4.2 Most significant symptoms and impacts, acute or subsequent

**Symptoms:** Not known.

### 4.3 Indication of any required immediate medical treatment and special cure

Treat symptomatically. No specific antidote is known.

## 5 – Fire fighting measures

### 5.1 Extinguishing means

**Suitable extinguishing means:** Use appropriate extinguishing means, such as water (spray), dry powder, foam.

### 5.2 Special hazards arising from the substance or mixture

In case of fire harmful gases may be emitted, such as nitrogen oxides, ammonia.

### 5.3 Recommendations to the firemen

In case of fire put on a suitable fire-extinguishing-protective equipment and a self-contained breathing apparatus.

**Additional information:** This product is not combustible. During fire extinction take into consideration the local circumstances and the surrounding environment. Contaminated fire-extinguishing water must be discarded according to the official regulations.

## 6 – Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**Personal precautions:** It is recommended to use protective gloves (protection according to EN374). Use work uniform. Avoid contact with skin, eyes and mouth.

### 6.2 Environmental Precautions

Restrain spreading of contaminated water/fire-extinction water. Do not allow it to enter the sewage system and contaminate superficial and underground waters.

### 6.3 Methods and materials for restriction and cleaning

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**Methods for cleaning up:** In case of leakage absorb with a suitable, inactive absorbent material. Sweep. Transfer the waste in suitable (labeled) containers for obliteration. Clean well the whole area with plenty of water.

#### 6.4 Reference to other sections

More information in sections: 7 for handling, 8 for personal protection and 13 for disposal.

## 7 – Handling and Storage

### 7.1 Protections for safe handling

**Recommendation for safe handling:** Avoid contact with eyes and skin. Handle in accordance with good industrial hygiene and safety practice.

**Recommendation for fire prevention and explosion protection:** No special precautions are required for fire prevention.

### 7.2 Safe storage conditions, including possible non-compatibilities

**Storage and packaging requirements:** Store the product with its label on it, tightly closed. Store the product in a cool, dry and well-ventilated place. It must be stored separately from food. It is not a hazardous product if transferred according to the proper rules of transport (P405), (P403+P233).

**Storage recommendation:** the product should be stored separately from food.

**Other clues:** It is not a hazardous product if transferred according to the proper rules of transport.

## 8 – Exposure Control

### 8.1 Control parameters

#### *Components with occupational exposure limit values*

Monoammonium phosphate (7722-76-1)

#### **DNEL/DMEL (Workers)**

Long-term systemic effect, dermal: 34,7 mg/kg body weight/ day

Long-term systemic effect, inhalation: 6,1 mg/m<sup>3</sup>

#### **DNEL/DMEL (General population)**

Long-term systemic effect, oral: 2,1 mg/kg body weight/ day

Long-term systemic effect, inhalation: 1,8 mg/m<sup>3</sup>

Long-term systemic effect, dermal: 20,8 mg/kg body weight/ day

#### **PNEC (Water)**

PNEC aquatic (fresh water): 1,7 mg/l

PNEC aquatic (marine water): 0,17 mg/l

PNEC aquatic (interrupted fresh water): 17 mg/l

#### **PNEC (STP: sewage treatment plant):**

PNEC 10 mg/l

### 8.2 Exposure controls

#### *Individual protection measures:*

**Eyes/face protection:** Use appropriate protective glasses (EN166).

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**Hands protection:** It is recommended to use appropriate protective gloves when using the product (The selected protective gloves must satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 deriving from it).

**Respiratory system protection:** Be sure to work in well ventilated area. In case inhalable dust is formed, you should use a dust protective filter mask (EN 143 or 149, type P1 or FFP1).

**Personal hygiene measures:** Avoid contact with eyes, skin and clothing. The use of self-contained work uniform is recommended. It is not allowed to drink or smoke or use smoke in the working area. Work clothes should be stored away from foods and drinks. Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls:** Prevent the material from entering the sewage system.

## 9 – Physical and chemical properties

### 9.1 Basic physical and chemical properties information

<b>Form :</b>	Crystals-granules
<b>Color :</b>	White
<b>Odor :</b>	Almost odorless
<b>pH (solution 5%, 25°C) :</b>	3.8-4.4
<b>Boiling point :</b>	No information available
<b>Melting point:</b>	190 °C
<b>Flammability temperature:</b>	Not flammable
<b>Flash point:</b>	>>
<b>Vaporization rate:</b>	Not applicable
<b>Flammability:</b>	Not combustible
<b>Lower explosion limit:</b>	Not applicable
<b>Upper explosion limit :</b>	>>
<b>Vapour pressure:</b>	>>
<b>Density (20°C):</b>	1.81 g/ml
<b>Solubility:</b>	1g/2.5 ml water
<b>Oxidizing properties:</b>	Not oxidizing
<b>Viscosity :</b>	No information available

### 9.2 Other information

## 10 – Stability and reactivity

Stable product under the recommended handling and storage conditions (section 7).

### 10.1 Reactivity

Stable product

### 10.2 Chemical Stability

Stable product under the recommended handling and storage conditions (section 7).

### 10.3 Hazardous reactions possibility

It reacts with (some) bases. Oxidizing substances. Magnesium.

### 10.4 Conditions to avoid

High temperature, avoid exposure to moisture.

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### **10.5 Not compatible materials**

Alkali metals, oxidizable materials, magnesium.

### **10.6 Hazardous decomposition products**

In case of fire harmful nitrogen oxides, ammonia, carbon monoxide and dioxide may be emitted.

## **11 – Toxicological information**

### **11.1 Information about toxicological effects**

The product has been tested. The product is not irritating, corrosive and it does not provoke any acute or long-lasting toxicity:

LD50 oral (rat): 5750 mg/kg of body weight (EU Method B1)

LD50 dermal (rabbit): >7940 mg/kg of body weight (EU Method B3)

## **12 – Ecological information**

### **12.1 Toxicity**

*Evaluation of the toxicity in aquatic environments:* It is very likely that the product does not demonstrate acute toxic effect on aquatic organisms.

LC50 fish: 85.9 mg/l

*Toxicity on fish:* The product has not been tested.

*Toxicity on daphnias and other aquatic invertebrates:* The product has not been tested.

*Toxicity on aquatic plants:* The product has not been tested.

*Microorganisms/ Effects on activated silt:* No hampering of the degrading ability of the activated silt is expected when the product enters biological purification premises at adequately low concentrations. The product has not been tested.

*Long-term toxicity on fish:* The product has not been tested.

*Long-term toxicity on aquatic invertebrates:* The product has not been tested.

*Earth-toxicity estimation:* The product has not been tested.

### **12.2 Persistence and degradability**

According to column 2 of annex VII of REACH, the test of direct bio-decomposition is not necessary to be conducted because the substance is mineral.

### **12.3 Bioaccumulation potential**

Log Pow<1

The product has not been tested. No bioaccumulation is expected in organisms.

### **12.4 Mobility in the soil**

Soluble in water.

### **12.5 Results of PBT and vPvB assessment**

The product does not meet the criteria in order to be classified as PBTs (persistent, bioaccumulative and toxic) and vPvBs (very persistent and very bioaccumulative), since the single ingredients do not meet the criteria.

### **12.6 Other negative effects**

The product does not contain substances which are referred in the regulation (EU) 1005/2009 as relevant to the substances which destroy the ozone layer.

### 13 – Information regarding disposal

#### 13.1 Waste handling methods

*Product:* Chemical waste material must be disposed according to the directive 2008/98/EC about wastes as well as to the relative national regulations.

*Packages with remaining product:* Packages must be disposed according to the special regulations of each country or must be returned to packages recycling entity (P501).

### 14 – Transform information

	14.1. UN Number	14.2. Familiar expediti on name accordin g UN	14.3. Danger order/orders during transportatio n	14.4. Packaging group	14.5. Environmental hazards
<b>Land transport ADR /RID</b>	-	-	-	-	-
<b>Sea transport ADN</b>	-	-	-	-	-
<b>Sea transport IMDG</b>	-	-	-	-	-
<b>Air transport IATA/ICAO</b>	-	-	-	-	-

#### 14.6 Special precautions for the user

Not known.

#### 14.7 Transportation of bulk material according to Appendix II of MARPOL contract 73/78 and of code IBC.

Not applicable.

### 15 – Regulatory information

This MSDS complies with the Regulation No 1907/2006/EU (REACH) & the Regulation (EU) No.1272/2008 [CLP].

#### 15.1 Regulations/ legislation concerning safety, health and environment about the substance or the mixture

There is no information available.

#### 15.2 Chemical safety evaluation

Issue date: 04/12/2019

1<sup>st</sup> edition

There has not been conducted a chemical safety evaluation by the supplier according to Regulation No 1907/2006/EU (REACH).

## **16 – Other information**

The Safety data sheet should be used in combination with the technical documentation of the product. The Safety data sheet is prepared based on information collected up to the day that the Safety Data Sheet is written. It is a guide for the safe use, distribution, storage and transport of the product and it does not intend to provide any warning or detailed description. This information is relevant only for the product. If the product is combined with other material or in procedures other than the ones described this safety data sheet may not be applicable. The Safety data sheet meets the risk criteria of the Regulations of the Tested Products according to the directives of the European Union.