

Issue date: 11/6/2020  
1<sup>st</sup> edition

## 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 vigour.*

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

### 1.1 Product identifier

**Product name:** FAST-GROW 13,5-0-46 NOP

**Catalogue No.:** PR.116.008

### 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):  
**Oxidizing solids (Category31), H272**

### 2.2 Labeling

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



**Pictogram:** GHS03

**Signal Word:** CAUTION

**Hazard Statements**

H272: May intensify fire; oxidizer.

**Precautionary statements- Prevention**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P220 Keep/Store away from clothing/.../combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statements- Response**

P370 + P378: In case of fire: Use dry powder or dry sand for extinction.

**Precautionary statements-Storage**

Dispose of contents/container to ...in accordance with  
local/regional/national/international regulation (to be specified).

**Other information:**

“It contains **POTASSIUM NITRATE**”

**2.3 Other hazards**

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

**Not known.**

### **3 - Composition / Information on ingredients**

**3.1 Substance**

**3.2 Mixture**

### **4 – First aid measures**

**4.1 First aids**

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. There are no hazards requiring first aids, however people with acute allergies may (rarely) express asthma. If the person breaths with difficulty remove him to fresh air (provide oxygen if necessary) and seek medical advice.

**Swallowing:** Drink a lot of water. Do not provide from mouth anything to people without their senses. If symptoms persist, seek medical advice. Immediately call a POISON CENTER or doctor/physician.

**Skin contact:** Wash with soap and plenty of water for about 15 min. Remove immediately all contaminated clothing and shoes. Wash shoes before putting them on. Seek medical advice for dermatitis cure.

**Eye contact:** Rinse with water for about 15 minutes above and below the eyelids. 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:** dry powder, dry stand

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

Contact with combustible material may cause fire. This material increases the risk of fire and may aid in combustion.

Hazardous thermal decomposition products: Potassium oxides and nitrogen oxides.

### 5.3 Recommendations to the firemen

In case of fire put on a suitable fire-extinguishing-protective equipment 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:** Avoid dust cloud formation. Take adequate ventilation measures. 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

Dust-related precautions are required. Do not enter the drain system.

### 6.3 Methods and materials for restriction and cleaning

**Methods for cleaning up:** If product is spilled, clean immediately with a shovel or broom. Avoid dust shredding. Wipe under a mist of water to reduce the potential for dust. In case of skin contact, wash skin with soap and water. Store waste in suitable and closed containers for disposal.

### 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:** Minimize dust creation and accumulation. Avoid contact with eyes and skin. Do not breathe dust. Wash well after handling. The general rules of industrial hygiene and safety must be obeyed.

**Recommendation for fire prevention and explosion protection:** Keep away from sources of ignition - No smoking. Keep away from sources of heat and ignition.

## 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. Keep containers tightly closed in a dry, cool, well-ventilated place.

**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**

No occupational exposure limits known. The general dust limit value must be obeyed.

### 8.2 Exposure controls

#### **Individual protection measures:**

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

**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 (total dust concentration above 10 mg/m<sup>3</sup>), 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.

## 9 – Physical and chemical properties

### 9.1 Basic physical and chemical properties information

<b>Form :</b>	Crystals
<b>Color :</b>	White
<b>Odor :</b>	Odorless
<b>pH in 10% solution (25°C) :</b>	No information available
<b>Boiling point :</b>	400°C (752F)
<b>Melting point:</b>	253°C (487F)
<b>Flammability temperature:</b>	Not flammable
<b>Flash point:</b>	>>
<b>Vaporization rate:</b>	The product does not evaporate
<b>Flammability:</b>	Not combustible
<b>Lower explosion limit:</b>	Not applicable

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**Upper explosion limit :** >>

**Vapour pressure:** >>

**Density:** 2,34g/ml (25°C)

**Solubility:** 22gr/100gr water (25°C)

**Oxidizing properties:** Oxidizing

**Viscosity :** 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

Not known.

#### 10.4 Conditions to avoid

Dusting conditions, extreme humidity, and excess heat.

#### 10.5 Not compatible materials

Strong acids, strong alkalis, moisture, reducing agents and combustible materials

#### 10.6 Hazardous decomposition products

In case of fire irritant and toxic fumes nitrogen oxides and potassium oxides may be emitted.

### 11 – Toxicological information

#### 11.1 Information about toxicological effects

**LD50 (oral) rat:** 2000 mg / kg

**LD50 (skin) rat:** 5000 mg / kg

**LC50 (5h) (by inhalation) rat:** 527 mg / m<sup>3</sup>

#### Acute Toxicity

**Inhalation:** No known significant effects or critical hazards.

**Ingestion:** >>

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**Skin contact:** >>

**Eye contact:** >>

### **Irritant Action**

**Inhalation:** No known significant effects or critical hazards.

**Ingestion:** >>

**Skin contact:** >>

**Eye contact:** May cause eye irritation.

### **Chronic Toxicity**

**Carcinogenicity:** There is no evidence that the product is suspected.

**Mutability:** >>

**Teratogenic potential:** >>

**Impacts on development:** >>

**Effects on fertility:** >>

## **12 – Ecological information**

### **12.1 Toxicity**

Toxicity to fish (LC50 / 96h): 1378 mg / L

Toxicity to daphnias and other aquatic invertebrates (LC50 / EC50 / 48h): 490mg / L

Aquatic plant toxicity (EC50 / LC50): 1700 mg / L (NOEC)

#### **Predicted Concentrations**

PNEC fresh water: 0.45mg / lt

PNEC sea water: 0.045mg / lt

### **12.2 Persistence and degradability**

As a rule, only abiotic degradation processes are substance-related. In aqueous solutions, the substance will be separated into potassium and nitrate ions. Under anoxic conditions, denitrification occurs and the nitrate is eventually converted to molecular nitrogen as part of the nitrogen cycle.

### **12.3 Bioaccumulation potential**

Bioaccumulation in organisms is not expected

LogPow <1

### **12.4 Mobility in soil**

Soil/water partition coefficient (Koc) : Nitrates have a low potential for adsorption.

Portion not taken up by plants, can leach to groundwater.

### **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 referred to in Regulation (EC) 1005/2009 concerning substances that deplete the ozone layer.

### 13 – Information regarding disposal

Chemical waste material must be disposed according to the directive 2008/98/EC about wastes as well as to the relative national regulations. Packages must be disposed according to the special regulations of each country or must be returned to packages recycling entity (P501).

Remaining product/ unused product: When feasible, recycling is preferred to disposal or incineration. Collection and waste disposal at an approved disposal plant. Dispose according to local regulations.

Contaminated packages: Dispose according to local regulations.

### 14 – Transform information

	14.1. UN Number	14.2. Familiar expedition name according UN	14.3. Danger order/orders during transportation	14.4. Packaging group	14.5. Environmental hazards
<b>Land transport</b> ADR /RID	1486	Potassium nitrate	5.1	III	EAC: 1Z
<b>Sea transport</b> ADN	1486	Potassium nitrate	5.1	III	-
<b>Sea transport</b> IMDG	1486	Potassium nitrate	5.1 Group B	III	EMS: F-A, S-Q
<b>Air transport</b> IATA/ICAO	1486	Potassium nitrate	5.1	III	-

#### 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].

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**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**

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.