

**Trade Name:** Plant-Prod 18-6-20  
**Date:** 2020-03-19

**Revised:**

page 1 of 6  
**Version:** 1.1

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## 1. Identification of the substance/preparation and the company/undertaking

### 1.1. Identification of the substance or preparation

Plant-Prod 18-6-20

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use:** Water-soluble fertilizer for horticulture and agriculture

**Uses advised against:** No information available

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

Master Plant-Prod Inc.

314 Orenda Road

Brampton, Ontario, Canada

L6T1G1

Email [technical@plantprod.com](mailto:technical@plantprod.com)

+001-905-793-8000

### 1.4. Emergency telephone number

Ministry of Labour, Welfare and Social Insurance, Department of Labour Inspection

Address: P.O.Box 24855, 1304 Nicosia, Cyprus

Phone: +35722405611

E-Mail: [cy-chemregistry@dli.mlsi.gov.cy](mailto:cy-chemregistry@dli.mlsi.gov.cy)

<http://www.mlsi.gov.cy/>

## 2. Hazards Identification

### 2.1. Classification of the substance/preparation

### 2.2. Label elements

Labeling in accordance with regulation 1272/2008 (CLP)

**Hazard pictograms:**



Signal word: Warning

**Hazard statements:**

H 272 May intensify fire; oxidizer.

H 319 Causes serious eye irritation.

**Precautionary statements:**

P 210 Keep away from open flames. No smoking.

P 220 Keep away from combustible materials.

P 221 Take any precaution to avoid mixing with combustibles.

P 264 Wash thoroughly after handling.

P 280 Wear protective gloves/protective clothing/eye protection/face protection.

P 305 + P 351 + P 338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P 337 + P 313 If eye irritation persists: Get medical advice/attention.

P 370 + P 378 In case of fire: Use any suitable for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water.

P 501 Dispose of contents/container according to local/national regulations

### 2.3. Other hazards which do not result in classification

See section 5.2.

## 3. Composition/Information on Ingredients

### 3.1. Substances

This product is a preparation/mixture

### 3.2. Preparations

Mixture of ammonium, magnesium and potassium salts, phosphate, nitrate and trace elements.

Trade Name: Plant-Prod 18-6-20  
Date: 2020-03-19

Revised:

page 2 of 6  
Version: 1.1

CAS-No.	REACH-Reg.-No.	Chemical Name	EC-No.	Concentr. (% w/w)	Limit for classification	Classification (acc. to CLP)
6484-52-2	01-2119490981-27-0015	Ammonium nitrate	229-347-8	0 – 35		H 272 H 319
7757-79-1	01-2119488224-35	Potassium nitrate	231-818-8	0 – 45		H 272
14025-15-1	01-2119963944-23	Copper chelate EDTA	237-864-5	0 – 0,4		H 302

(For R-phrases and H-statements in full: See section 16)

#### 4. First Aid Measures

##### 4.1. **Description of first aid measures**

###### **Inhalation**

Move person into fresh air; in case of respiratory problems: seek medical help.

###### **Skin contact**

Remove contaminated clothing; wash with soap and water.

###### **Eye contact**

Rinse immediately with plenty of water; remove contact lenses. In case of problems seek medical help.

###### **After ingestion**

Rinse mouth with water; give water to drink; if necessary, seek medical help.

###### **Additional information**

Respiration of decomposition fumes: Seek medical help and show this information!

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

None under normal processing

##### 4.3. **Indication of any immediate medical attention and special treatment needed**

None under normal processing.

#### 5. Fire-fighting Measures

##### 5.1. **Extinguishing media**

**Suitable extinguishing media:** For surrounding fires: Water

**Unsuitable extinguishing media:** Do not use dry chemicals or foams. CO<sub>2</sub> or Halon® may provide limited control.

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

In case of fire: Ammonia, oxides of nitrogen, phosphorus oxide may develop Do not inhale the decomposition fumes (NO<sub>x</sub>).

##### 5.3. **Advice for fire fighters**

Wear self-contained breathing apparatus and protective suit.

##### 5.4. **Special instructions**

Avoid allowing the firefighting water into the ground water

#### 6. Accidental Release Measures

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

**Personal precautions:** Avoid dust formation; see sections 7 and 8.

**For emergency responders:** Use personal protection (see section 8)

##### 6.2. **Environmental precautions**

Do not allow the product to get into the ground water or sewage system.

##### 6.3. **Methods and material for containment and cleaning up**

**Methods for containment:** Prevent further leakage or spillage if safe to do so.

After spilling: Sweep up or vacuum up material and dispose of (see section 13) or reuse material.

##### 6.4. **Reference to other sections:**

See section 7, 8 and 13.

Trade Name: Plant-Prod 18-6-20

Date: 2020-03-19

Revised:

page 3 of 6

Version: 1.1

## 7. Handling and Storage

### 7.1. Precautions for safe handling

**Advice on safe handling:** Avoid contact with eyes and skin; avoid dust generation.

**General hygiene considerations:**

- Don't eat, drink or smoke in working areas
- Wash hands after handling
- Remove contaminated clothing

### 7.2. Conditions for safe storage, including any incompatibilities

Keep dry at room temperature in closed packages (bags); avoid contact with heat sources and oxidizing substances. Do not store with combustible substances, acids or bases.

Keep away from heat and direct sunlight.

### 7.3. Specific end uses

Fertilizer for horticulture and agriculture

## 8. Exposure Controls/Personal Protection

### 8.1. Control parameters Potassium nitrate (CAS-no.: 7757-79-1)

#### DNEL/DMEL (Workers)

Long-term exposure - systemic effects, dermal

20,8 mg/kg bw/day

Long-term exposure - systemic effects, inhalation

36,7 mg/m<sup>3</sup>

#### DNEL/DMEL (General Population)

Acute - systemic effects, oral

12,5 mg/kg bw

Long-term exposure - systemic effects, inhalation

10,9 mg/m<sup>3</sup>

Long-term exposure - systemic effects, dermal

12,5 mg/kg bw/day

#### PNEC (Water)

PNEC aqua (freshwater)

0,45 mg/l

PNEC aqua (marine water)

0,045 mg/l

PNEC aqua (intermittent, freshwater)

4,5 mg/l

#### PNEC (STP)

PNEC sewage treatment plant

18 g/l

### 8.2. Exposure controls

#### Personal protective equipment

- Respiratory protection: Dust mask with filter type P1
- Hand protection: possibly protective gloves (rubber)
- Eye protection: wear safety glasses to avoid eye contact. Do not wear contact lenses.

### 8.3. Environmental exposure controls

See section 6 and 7.

## 9. Physical and Chemical Properties

### 9.1. General information

**Appearance:** powder

**Color:** light-blue

**Odour:** slight ammonia odour

**Explosive properties:** product is not explosive

**Boiling point:** not applicable

**Vapor pressure:** not applicable

**Flash point:** not applicable

**Melting point:** not applicable (mixture)

**Water solubility:** max. 400 g/l

**Viscosity:** not applicable

**Vapor density:** not applicable

### 9.2. Other Information

No further physical and chemical data determined

Trade Name: Plant-Prod 18-6-20  
Date: 2020-03-19

Revised:

page 4 of 6  
Version: 1.1

## 10. Stability and Reactivity

### 10.1. **Reactivity**

Hygroscopic

### 10.2. **Chemical stability**

Stable under normal conditions

### 10.3. **Possible dangerous reactions**

No dangerous reaction if used as intended

### 10.4. **Conditions to avoid**

Humidity; high temperatures

### 10.5. **Materials to avoid**

Combustible material, strong acids and bases, reducing material, chlorates, chlorites, hypochlorite, nitrites, chlorate containing herbicides

### 10.6. **Dangerous decomposition products**

In case of burning: Nitrogen oxides, phosphorus oxides, ammonia, CO<sub>2</sub> or cyanuric acid.

## 11. Toxicological Information

### (a) **Acute toxicity**

- not classified; no data available

### (b) **Skin corrosion/irritation**

- not classified; no data available;

### (c) **Serious eye damage/irritation**

according to our experience: weakly irritating

- not classified; no data available

according to our experience: weakly irritating

### (d) **Respiratory or skin sensitization**

- not classified; no data available

### (e) **Germ cell mutagenicity**

- not classified; no data available

### (f) **Carcinogenicity**

- not classified; no data available

### (g) **Reproductive toxicity**

- not classified; no data available

### (h) **STOT-single exposure**

- not classified; no data available

### (i) **STOT-repeated exposure**

- not classified; no data available

### (j) **Aspiration hazard**

- not classified; no data available

### 11.1. **Information on toxicological effects**

Irritation: Weakly irritating

## 12. Ecological Information

### 12.1. **Toxicity**

Low hazardous to waters (self-classified); Do not allow the product to get into the ground water or sewage system.

### 12.2. **Persistence and degradability**

No data available.

### 12.3. **Bioaccumulation potential**

No data available.

### 12.4. **Mobility in soil**

No data available

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

No data available

### 12.6. **Other harmful effects**

No data available

**Trade Name:** Plant-Prod 18-6-20  
**Date:** 2020-03-19

**Revised:**

page 5 of 6  
**Version:** 1.1

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### **13. Disposal Considerations**

#### **13.1. Methods of disposal**

**Product:** Safest to dispose of product by using it as intended, possibly in agriculture; otherwise: hazardous waste site. European Waste Catalogue and Hazardous Waste List: 02 01 09 "Agrochemical waste other than those mentioned in 02 01 08".

**Packages:** Emptied packages: Recycling or residual waste.

### **14. Transport Information**

#### **14.1. UN number**

2071

#### **14.2. Shipping name**

AMMONIUM NITRATE BASED FERTILIZER

#### **14.3. Class**

9

#### **14.4. Packing group**

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#### **14.5. Ecological menace**

Not harmful to the environment

#### **14.6. Caution information for the user**

See sections 6 – 8

**Additional information:** Not subject to ADR; no special measures required. (Special Provision 193)

### **15. Regulatory Information**

#### **15.1.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

##### **European Union**

Regulation (EC) No 2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilizers

Not a hazardous substance according to EC-Directive 67/548/EC, its various amendments and adaptations and EC-Regulation 1272/2008 (CLP).

##### **National regulations**

Germany: Water Endangering Class (WGK): 1 (self-classification)

#### **15.2. Chemical Safety Assessment**

Mixture was not subject of a safety assessment.

**Trade Name:** Plant-Prod 18-6-20  
**Date:** 2020-03-19

**Revised:**

page 6 of 6  
**Version:** 1.1

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## 16. **Other Information**

### **Revision information**

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### **Information source**

Regulation (EC) Nr. 1907/2006 (REACH)  
Regulation (EC) Nr. 1272, 2008 (CLP/GHS)  
Directive 1999/45/EC (DPD)  
Directive 67/548/CEE (DSD)

### **Full text of H-statements referred to under section 3**

H 272	May intensify fire; oxidizer
H 302	Harmful if swallowed
H 319	Causes serious eye irritation

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
REACH: Registration, Evaluation, Authorization of Chemicals  
CLP: Classification, Labelling and Packaging  
OEL: Occupational Exposure Limit  
TWA: Time Weighted Average  
ATE: Acute Toxicity Estimate  
SVHC: Substance of Very High Concern  
CMR: Cancerogenic, mutagen, reprotoxic

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