

## Plantex 12-0-44

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Plantex 12-0-44
<b>Other Means of Identification</b>	10371
<b>Product Family</b>	Plantex
<b>Recommended Use</b>	Water Soluble Fertilizer for Plants.
<b>Restrictions on Use</b>	Not applicable.
<b>Manufacturer</b>	Master Plant-Prod Inc., 314 Orenda Rd. , Brampton, Ontario, Canada, L6T 1G1
<b>Emergency Phone No.</b>	CANUTEC, 1-613-996-6666, 24 Hours
<b>Date of Preparation</b>	May 30, 2014

### SECTION 2. HAZARD IDENTIFICATION

Classified according to the US Hazard Communication Standard (HCS 2012).

#### Classification

Oxidizing solid - Category 3

#### Label Elements



Signal Word:

Warning

Hazard Statement(s):

H272 May intensify fire; oxidizer.

Precautionary Statement(s):

Prevention:

P210 Keep away from heat.

P220 Keep or store away from clothing and other combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P280 Wear protective gloves/eye protection/face protection.

Response:

P370 + P378 In case of fire: Use water spray or fog to extinguish.

Disposal:

P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Potassium nitrate	7757-79-1	98	

Product Identifier: Plantex 12-0-44

Date of Preparation: May 30, 2014

Page 01 of 06

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

Move to fresh air. If breathing has stopped, trained personnel should begin rescue breathing. Call a Poison Centre or doctor.

#### Skin Contact

Rinse with lukewarm, gently flowing water for 5 minutes. If skin irritation occurs, get medical advice or attention. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts).

#### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

#### Ingestion

Do not induce vomiting. Get medical advice or attention if you feel unwell or are concerned.

### Immediate Medical Attention and Special Treatment

#### Medical Conditions Aggravated by Exposure

None known.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Use flooding quantities of water or other suitable extinguishing agent.

#### Unsuitable Extinguishing Media

DO NOT use water jet.

### Specific Hazards Arising from the Product

Oxidizer. May intensify fire.

Corrosive, oxidizing nitrogen oxides.

### Special Protective Equipment and Precautions for Fire-fighters

Wear SCBA and full protective clothing. Oxidizer. Prevent contact with flammable and combustible materials.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

### Methods and Materials for Containment and Cleaning Up

Contain the spill.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid repeated or prolonged skin contact. Do not get in eyes. Only use where there is adequate ventilation.

### Conditions for Safe Storage

Store in an area that is: cool, dry. Keep out of reach of children.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Product Identifier: Plantex 12-0-44

Date of Preparation: May 30, 2014

Not available.

### Appropriate Engineering Controls

General ventilation is usually adequate.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

#### Respiratory Protection

Use an appropriate respirator or dust mask.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Blue fine powder. Particle Size: Not available
Odour	Odourless
Odour Threshold	Not applicable
pH	Not available
Melting Point/Freezing Point	Not applicable (melting); Not applicable (freezing)
Initial Boiling Point/Range	~ 399 °C
Flash Point	> 150 °C
Evaporation Rate	Not available
Flammability (solid, gas)	Will not burn.
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	< 1 mm Hg
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	Not available in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	~ 399 °C
Viscosity	Not applicable (kinematic)
Other Information	
Physical State	Solid
Molecular Formula	Not applicable
Molecular Weight	Not applicable
Bulk Density	Not available
Critical Temperature	Not available

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

May intensify fire not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Product Identifier: Plantex 12-0-44

Date of Preparation: May 30, 2014

Page 03 of 06

**Conditions to Avoid**

Heat. Water, moisture or humidity. Open flames, sparks, static discharge, heat and other ignition sources.  
 Temperatures above 150 °C

**Incompatible Materials**

Organics.

**Hazardous Decomposition Products**

Corrosive, oxidizing nitrogen oxides.

**SECTION 11. TOXICOLOGICAL INFORMATION****Likely Routes of Exposure**

Inhalation; skin contact; eye contact; ingestion.

**Acute Toxicity**

Chemical Name	LD50 (oral)		LC50
Potassium nitrate	3750 mg/kg (rat)		

**Skin Corrosion/Irritation**

Irritation could occur with prolonged exposure to dry fertilizer or fertilizer solution.

**Serious Eye Damage/Irritation**

Irritation or burn could occur if fertilizer solution is splashed in eyes or dry product contacted.

**STOT (Specific Target Organ Toxicity) - Single Exposure****Inhalation**

May cause nose and throat irritation, lung injury.

**Skin Absorption**

Not absorbed through skin.

**Ingestion**

If large amounts are swallowed symptoms may include nausea, vomiting, stomach cramps and diarrhea.

**Aspiration Hazard**

No information was located.

**STOT (Specific Target Organ Toxicity) - Repeated Exposure**

May cause irritation of the respiratory system. May cause respiratory tract injury.

**Respiratory and/or Skin Sensitization**

Skin sensitizer.

**Carcinogenicity**

Not known to cause cancer.

**Reproductive Toxicity****Development of Offspring**

No information was located.

**Sexual Function and Fertility**

Boric acid may impair male fertility, based on animal data.

**Effects on or via Lactation**

No information was located.

**Germ Cell Mutagenicity**

No information was located.

**Interactive Effects**

No information was located.

**SECTION 12. ECOLOGICAL INFORMATION**

Product Identifier: Plantex 12-0-44

Date of Preparation: May 30, 2014

Environmental information was not located.

#### Ecotoxicity

##### Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Potassium nitrate		490 mg/L (Daphnia magna (water flea); 24-hour)		

##### Chronic Aquatic Toxicity

Chemical Name	NOEC Fish	EC50 Fish	NOEC Crustacea	EC50 Crustacea
Potassium nitrate				900 mg/L (Daphnia magna (water flea); 4.2 days)

#### Persistence and Degradability

No information was located.

#### Bioaccumulative Potential

No information was located.

#### Mobility in Soil

No information was located.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

### SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1486	POTASSIUM NITRATE MIXTURE	5.1	III
US DOT	1486	POTASSIUM NITRATE MIXTURE	5.1	III

**Special Precautions** Not applicable

#### Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15. REGULATORY INFORMATION

### SECTION 16. OTHER INFORMATION

**Date of Preparation** May 30, 2014

**Date of Last Revision** February 26, 2016

**Key to Abbreviations** OSHA = US Occupational Safety and Health Administration

**References** CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).

**Disclaimer** To the best of our knowledge, the information contained herein is accurate. However, neither Master Plant-Prod Inc., nor any of its distributors, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Although certain hazards are described, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of any product is the sole responsibility of the user. All materials may present

Product Identifier: Plantex 12-0-44

Date of Preparation: May 30, 2014

Page 05 of 06

unknown hazards and should be used with caution.

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Product Identifier: Plantex 12-0-44

Date of Preparation: May 30, 2014

Page 06 of 06

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