

## Plant-Prod 20-10-20

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Plant-Prod 20-10-20
<b>Other Means of Identification</b>	10563, 10564
<b>Product Family</b>	Plant-Prod
<b>Recommended Use</b>	Water Soluble Fertilizer for Plants.
<b>Restrictions on Use</b>	Not applicable.
<b>Manufacturer/Supplier Identifier</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>	July 09, 2015

### SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

#### 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

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Potassium nitrate	7757-79-1	45	
Ammonium nitrate	6484-52-2	36	

## 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.

#### 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

Get medical advice or attention if you feel unwell or are concerned.

### Immediate Medical Attention and Special Treatment

#### Special Instructions

Not applicable.

#### 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

Corrosive, oxidizing nitrogen oxides; corrosive, flammable ammonia.

### 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.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

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

<b>Appearance</b>	Blue fine powder. Particle Size: Not available
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	2.7 (10% solution)
<b>Melting Point/Freezing Point</b>	Not applicable (melting); Not applicable (freezing)
<b>Initial Boiling Point/Range</b>	Not applicable
<b>Flash Point</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Will not burn.
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	Not applicable
<b>Solubility</b>	Not available in water
<b>Auto-ignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	Not applicable
<b>Viscosity</b>	Not applicable (kinematic)
<b>Other Information</b>	
<b>Physical State</b>	Solid
<b>Molecular Formula</b>	Not applicable
<b>Molecular Weight</b>	Not applicable
<b>Bulk Density</b>	0.99 kg/L

## 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.

### Conditions to Avoid

Heat. Water, moisture or humidity. Open flames, sparks, static discharge, heat and other ignition sources.

**Incompatible Materials**

Acids, corrosives, fuels, oxidizers, combustibles.

**Hazardous Decomposition Products**

Corrosive, oxidizing nitrogen oxides; corrosive, flammable ammonia.

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute Toxicity**

Chemical Name	LD50 (oral)	
Potassium nitrate	3750 mg/kg (rat)	
Ammonium nitrate	2800 mg/kg (rat)	

**Skin Corrosion/Irritation**

Human experience shows very mild irritation.

**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**

Very low vapour activity. May lead to respiratory irritation.

**Skin Absorption**

Not absorbed through skin.

**Ingestion**

Excessive ingestion must occur before any health hazards results. Effects of over exposure may include nausea, vomiting, diarrhea, weakness or convulsions.

**Aspiration Hazard**

No information was located.

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

No information was located.

**Respiratory and/or Skin Sensitization**

Skin sensitizer.

**Carcinogenicity**

Nitrilotriacetic Acid (NTA) and its salts were determined to be "possibly carcinogenic to humans by IARC, a compound which "may reasonably be anticipated to be a carcinogen" by NTP and a "select carcinogen" by OSHA.

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. IARC = International Agency for Research on Cancer. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration.

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

Boric acid may cause birth defects, based on animal data.

**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.

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## SECTION 12. ECOLOGICAL INFORMATION

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)		
Ammonium nitrate	6000 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour)	555 mg/L (Daphnia magna (water flea); 24-hour; fresh water; static)		

#### 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.

#### Other Adverse Effects

There is no information available.

## 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	2071	AMMONIUM NITRATE FERTILIZERS	9	III
US DOT	2071	AMMONIUM NITRATE FERTILIZERS	9	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

### Safety, Health and Environmental Regulations

#### Canada

##### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL.

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## SECTION 16. OTHER INFORMATION

<b>SDS Prepared By</b>	MPPI Technical Department
<b>Phone No.</b>	905-793-8000
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<b>Revision Indicators</b>	<p>The following SDS content was changed on October 15, 2015: SECTION 12. ECOLOGICAL INFORMATION; Acute Aquatic Toxicity.</p> <p>The following SDS content was changed on October 15, 2015: SECTION 12. ECOLOGICAL INFORMATION; Acute Aquatic Toxicity.</p> <p>The following SDS content was changed on October 15, 2015: SECTION 12. ECOLOGICAL INFORMATION; Acute Aquatic Toxicity.</p> <p>The following SDS content was changed on October 15, 2015: SECTION 12. ECOLOGICAL INFORMATION; Acute Aquatic Toxicity.</p> <p>The following SDS content was changed on October 15, 2015: SECTION 12. ECOLOGICAL INFORMATION; Chronic Aquatic Toxicity.</p> <p>The following SDS content was changed on October 15, 2015: SECTION 12. ECOLOGICAL INFORMATION; Chronic Aquatic Toxicity.</p>
<b>References</b>	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
<b>Disclaimer</b>	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 unknown hazards and should be used with caution.