

## Plantex Solution 19-2-19

### SECTION 1. IDENTIFICATION

|   |   |
|---|---|
| <b>Product Identifier</b>               | Plantex Solution 19-2-19  |
| <b>Other Means of Identification</b>    | 11078   |
| <b>Product Family</b>                   | Plantex   |
| <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>              | February 25, 2016   |

### 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P221 Take any precaution to avoid mixing with combustibles.

P280 Wear protective gloves/protective clothing/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.

#### Other Hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Mixture:

| Chemical Name     | CAS No.   | %  | Other Identifiers |
|-------------------|-----------|----|-------------------|
| Ammonium nitrate  | 6484-52-2 | 42 |                   |
| Potassium nitrate | 7757-79-1 | 40 |                   |

## 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

Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Get medical advice or attention if you feel unwell or are concerned.

#### 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

For large amounts immediately call a Poison Centre or doctor. Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting.

### Most Important Symptoms and Effects, Acute and Delayed

May cause mild irritation.

### 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

Mild oxidizer. May intensify fire.

Corrosive, flammable ammonia; very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides; corrosive phosphorous 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. Remove or isolate incompatible materials as well as other hazardous materials. Eliminate all ignition sources. Use grounded, explosion-proof equipment.

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## 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. Avoid contact with combustibles, organics and ignition sources. Sweep up spilled material and dispose of in approved manner.

## 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, well-ventilated. Keep out of reach of children. Store in a closed container. Keep separate from acids, alkalis, reducing agents and combustibles.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Not available.

### Appropriate Engineering Controls

General ventilation is usually adequate. Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

### 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>                                       | fine powder. Particle Size: Not available         |
| <b>Odour</b>  | Slight ammonia odour                              |
| <b>Odour Threshold</b>                                  | Not applicable                                    |
| <b>pH</b>   | 3.6 (10% solution)                                |
| <b>Melting Point/Freezing Point</b>                     | Not available (melting); Not available (freezing) |
| <b>Initial Boiling Point/Range</b>                      | Not applicable                                    |
| <b>Flash Point</b>                                      | Not applicable                                    |
| <b>Evaporation Rate</b>                                 | Not available                                     |
| <b>Flammability (solid, gas)</b>                        | Will not burn.                                    |
| <b>Upper/Lower Flammability or Explosive Limit</b>      | Not available (upper); Not available (lower)      |
| <b>Vapour Pressure</b>                                  | Not available                                     |
| <b>Vapour Density (air = 1)</b>                         | Not applicable                                    |
| <b>Relative Density (water = 1)</b>                     | Not available                                     |
| <b>Solubility</b>                                       | Not available in water                            |
| <b>Partition Coefficient, n-Octanol/Water (Log Kow)</b> | Not available                                     |
| <b>Auto-ignition Temperature</b>                        | Not applicable                                    |
| <b>Decomposition Temperature</b>                        | Not available                                     |

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|                          |                            |
|--------------------------|----------------------------|
| <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>      | 1.2 kg/L                   |

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

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

Strong acids, strong alkaloids, oxidizers, organics.

### Hazardous Decomposition Products

Corrosive, flammable ammonia; very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides; corrosive phosphorous oxides.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

### Acute Toxicity

| Chemical Name     | LC50 | LD50 (oral)      | LD50 (dermal) |
|-------------------|------|------------------|---------------|
| Potassium nitrate |      | 3750 mg/kg (rat) |               |
| Ammonium nitrate  |      | 2800 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

At high concentrations may cause lung injury, nose and throat irritation.

#### 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.

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**Carcinogenicity**

Not known to cause cancer.

**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.

**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**

**USA**

**Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are listed on the TSCA Inventory.

## SECTION 16. OTHER INFORMATION

**SDS Prepared By** MPPI Technical Department

**Phone No.** 905-793-8000

**References** CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).

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