

# **Plant-Prod Solutions 19-8-13**

## **SECTION 1. IDENTIFICATION**

Product Identifier Plant-Prod Solutions 19-8-13

Other Means of 11711

Identification

Product Family Plant-Prod

**Recommended Use** Water Soluble Fertilizer for Plants.

Manufacturer/Supplier Master Plant-Prod Inc., 314 Orenda Rd., Brampton, Ontario, Canada, L6T 1G1, Canada

Identifier

Emergency Phone No. CANUTEC, 1-888-226-8832 (North America) or 1-613-996-6666 (International), 24 Hours

## **SECTION 2. HAZARD IDENTIFICATION**

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

## Classification

Oxidizing solid - Category 3; Serious eye damage - Category 1; Carcinogenicity - Category 2; Reproductive toxicity - Category 1

### **Label Elements**







## Signal Word:

Danger

Hazard Statement(s):

H272 May intensify fire; oxidizer.
 H318 Causes serious eye damage.
 H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

Precautionary Statement(s):

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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/eye protection/face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice or attention.

P310 Immediately call a POISON CENTRE or doctor.

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

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Storage:

P405 Store locked up.

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	Other Names
Potassium nitrate	7757-79-1	29		
Ammonium nitrate	6484-52-2	29		
Calcium nitrate	10124-37-5	15		
Boric acid	10043-35-3	<0.15		
Nitrilotriacetic acid, disodium salt	15467-20-6	<0.20		

## **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). Call a Poison Centre or doctor if you feel unwell.

#### **Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. Immediately call a Poison Centre or doctor.

## 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**

See first aid information above. Note to Physicians: Provide general supportive measures and treat symptomatically.

### **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.

In a fire, the following hazardous materials may be generated: corrosive phosphorous oxides; corrosive, oxidizing

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nitrogen oxides; calcium oxides; magnesium oxides; potassium oxides; metal 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. Avoid contact with combustibles, organics and ignition sources. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal. Avoid generating dust.

### **SECTION 7. HANDLING AND STORAGE**

## **Precautions for Safe Handling**

Do not breathe in this product. Do not get in eyes, on skin or on clothing. Avoid generating dusts. 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**

	ACGI	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA	
Ammonium nitrate	10 mg/m3		15 mg/m3				
Boric acid	2 mg/m3	6 mg/m3					

### **Appropriate Engineering Controls**

Provide eyewash and safety shower if contact or splash hazard exists. Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

## **Individual Protection Measures**

#### **Eye/Face Protection**

When handling dry concentrated product: wear protective safety glasses. When handling dissolved product: wear chemical safety goggles.

#### **Skin Protection**

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

#### **Respiratory Protection**

Use an appropriate NIOSH approved particulate respirator. Monitor dust levels within working area and ensure adequate ventilation.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

## **Basic Physical and Chemical Properties**

**Appearance** fine powder. Particle Size: Not available

Odour Slight ammonia odour

Odour Threshold Not applicable pH Not available

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Melting Point/Freezing Point Not available (melting); Not available (freezing)

Initial Boiling Point/RangeNot applicableFlash PointNot applicableEvaporation RateNot availableFlammability (solid, gas)Will not burn.

**Upper/Lower Flammability or** 

**Explosive Limit** 

Not available (upper); Not available (lower)

Vapour PressureNot availableVapour Density (air = 1)Not availableRelative Density (water = 1)Not available

**Solubility** Not available in water

Partition Coefficient, Not available

n-Octanol/Water (Log Kow)

Auto-ignition TemperatureNot availableDecomposition TemperatureNot available

Viscosity Not available (kinematic); Not available (dynamic)

Other Information

Physical State Solid

Molecular FormulaNot applicableMolecular WeightNot availableBulk DensityNot available

## **SECTION 10. STABILITY AND REACTIVITY**

## Reactivity

Not reactive under normal conditions of use. May intensify fire.

## **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**

Under normal conditions of storage and use, hazardous decomposition products should not be produced. In a fire, the following hazardous materials may be generated. Corrosive, oxidizing nitrogen oxides; corrosive phosphorous oxides; potassium oxides; calcium oxides; magnesium oxides; metal oxides.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

## Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

### **Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Ammonium nitrate	> 88.8 mg/L (rat)	2800 mg/kg (rat)	> 5000 mg/kg (rat)
Calcium nitrate		300-2000 mg/kg (rat)	

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Boric acid	2660 mg/kg	
200 0.0.0	=000g/g	

#### 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

Very low vapour activity. 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

No information was located.

### Respiratory and/or Skin Sensitization

Skin sensitizer.

## Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Boric acid		A4		

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.

## **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**

## **Ecotoxicity**

## **Acute Aquatic Toxicity**

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Ammonium nitrate	6000 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour)	555 mg/L (Daphnia magna (water flea); 24-hour; fresh water; static)		
Calcium nitrate	447 mg/L (Labeo boga (fresh water);			

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	48-hour; fresh water)		
Boric acid	11100 mg/L		
	(Oncorhynchus		
	mykiss (rainbow		
	trout); 96-hour)		

## 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	1477	Nitrates, Inorganic, N.O.S.	5.1	III
US DOT	1477	Nitrates, Inorganic, N.O.S.	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**

### Safety, Health and Environmental Regulations

## Canada

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

All ingredients are listed on the DSL.

## **SECTION 16. OTHER INFORMATION**

SDS Prepared By MPPI Technical Department

Phone No. 905-793-8000

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Revision Indicators Updated formulation SECTION 14. TRANSPORTATION INFORMATION Updated UN

information.

**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).

**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

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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.

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