ACER® *nt* 16-7-10

BLENDED WITH NUTRICOTE® TECHNOLOGY

ONE SEASON CONTROLLED RELEASE NURSERY FERTILIZER

DIRECTIONS FOR USE:
Media with ACERnt incorporated should not be stored for more than 1 week. 16-7-10 should be applied according the specific nutrient requirements of the crop being grown.

Salt-sensitive species: Azalea, Camellia, Kalmia, Pieris, Magnolia, Rhododendron, Skimmia, Saxifraga.

Medium feeding: Most nursery stock and herbaceous perennials, semi-dwarf conifers and some rhododendrons.

Heavy feeding: Eleagnus, Forsythia, Hydrangea, Hedera, Prunus, Weigela and medium-large conifers

MODE D'EMPLOI:
Ne pas entreposer un substrat contenant de l'ACERnt pour plus d'une semaine. 16-7-10 doit être utilisé selon les besoins nutritifs spécifiques des plantes.

Fertilszation faible: Azalée, Camélia, Kalmia, Pieris, Magnolia, Rhododendron, Skimmia, Saxifrage.

Fertilisation moyenne: La plupart des plants de pépinière et des graminées vivaces, les conifères semi-nains et quelques rhododendrons.

Fertilisation forte: Eleagnus, Forsythia, Hydrangea, Hedera, Prunus, Weigela et les conifères de format moyen à grand.

GUARANTEED MINIMUM ANALYSIS / ANALYSE MINIMUM GARANTIE:

Total nitrogen / Azote totale* (N)	16%
Available phosphoric acid / Acide phosphorique assimilable* (P_2O_5)	7%
Soluble Potash / Potasse soluble* (K_2O)	10%
Magnesium / Magnésium (Mg)	1.32%
Boron (actual) / Bore (réel) (B)	0.047%
Copper (actual) / Cuivre (réel) (Cu)	0.044%
Iron (actual) / Fer (réel) (Fe)	0.329%
Manganese (actual) / Manganèse (réel) (Mn)	0.102%
Molybdenum (actual) / Molybdène (réel) (Mo)	0.011%
Zinc (actual) / Zinc (réel) (Zn)	0.065%

*The nitrogen, phosphate, potash, magnesium, iron, manganese, copper, boron and molybdenum materials in this product have been coated to provide 16% coated slow release nitrogen (N), 7% coated slow release available phosphoric acid (P_2O_5), 10% coated slow release soluble potash (K_2O).
*L'azote, le phosphore la potasse, le magnésium, le bore, le cuivre, le fer, le manganèse et le molybdène retrouvés dans cet engrais, ont été enrobés pour fournir 16% d'azote (N) à libération contrôlée, 7% d'acide phosphorique (P_2O_5) à libération contrôlée ,10% de potasse (K_2O) à libération contrôlée.

20 kg

ENGRAIS DE PÉPINIÈRE À LIBÉRATION CONTRÔLÉE D'UNE DURÉE D'UNE SAISON

TOP DRESSING RATE / TAUX D'APPLICATION EN SURFACE 16-7-10				
Container size / Grandeur du pot	**Container Volume / Volume du pot (L)**	**Low / Faible**	**Medium / Moyen**	**Heavy / Élevé**
5" std. pot	0.95	2g	5g	7g
6" std. pt	1.7	4g	8g	12g
1 gallon	2.5	6g	12g	20g
2 gallon	5.5	15g	25g	40g
3 gallon	9.5	25g	45g	70g
5 gallon	15	35g	75g	110g
7 gallon	37	50g	100g	150g
Incorporation rate / Taux d'incorporation	**kg per / par m²**	2.5	4.5	6.5

IMPORTANT NOTICE TO PURCHASER
Seller's and manufacturer's only obligation to a purchaser or user of this product shall be to refund the purchase price, or to replace the quantity purchased, of any defective product. In no event shall Seller or manufacturer be liable to a purchaser or user of this product for any claim for any economic, indirect, special, incidental or consequential damages, or for any injury, loss or damage, direct or indirect, to any person or property. Purchaser of this bag of fertilizer material expressly acknowledges and agrees to these terms.

AVIS IMPORTANT À L'ACHETEUR
La seule obligation du vendeur et du fabricant à l'endroit de l'acheteur ou de l'utilisateur de ce produit se limite au remboursement du prix diachat ou au remplacement de la quantité achetèe de tout produit dèfectuex. En aucun cas, le vendeur ou le fabricant ne peut être tenu responsable en cas de rèclamation de l'acheteur ou de l'utilisateur de ce produit relativement à trou prèjudice èconomique, à tout dommage indirect, spècial ou consècutif ou à toute blessure, perte ou dommage, direct ou indirect, à une personne ou à une propriètè. L'acheteur de ce sac d'engrais reconnaât expressèment ces conditions et en accepte les modalitès.

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MANUFACTURED BY:
MASTER PLANT-PROD INC.
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Brampton, Ontario L6T 1G1

11976 0115

ACERnt 16-7-10

SECTION 1. IDENTIFICATION

Product Identifier	ACERnt 16-7-10
Other Means of Identification	11976
Product Family	ACER/ACERnt Controlled Release Fertilizer
Recommended Use	Controlled Release Fertilizer for Plants.
Manufacturer	Master Plant-Prod Inc., 314 Orenda Rd. , Brampton, Ontario, Canada, L6T 1G1
Emergency Phone No.	CANUTEC, 1-613-996-6666, 24 Hours
Date of Preparation	November 21, 2014

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Ammonium nitrate	6484-52-2	15-25	
Potassium nitrate	7757-79-1	10-15	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. 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. If eye irritation persists, get medical advice or attention.

Ingestion

Immediately call a Poison Centre or doctor. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use flooding quantities of water spray or fog.

Specific Hazards Arising from the Product

Do not inhale decomposition fumes. Mild oxidizer. May intensify fire.

Special Protective Equipment and Precautions for Fire-fighters

Wear SCBA and full protective clothing. Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours.
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.

Environmental Precautions

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

Methods and Materials for Containment and Cleaning Up

Avoid generating dust. Shovel or sweep up and reuse.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid generating dusts. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

Store in an area that is: dry, well-ventilated. Store in the original, labelled, shipping container. Keep out of reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	**TWA**	**STEL**	**TWA**	**Ceiling**	**8-hr TWA**	**TWA**
Ammonium nitrate	10 mg/m3		15 mg/m3			
Potassium nitrate	5 mg/m3					

Appropriate Engineering Controls

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Applicators should stand upwind.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

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

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an appropriate cartridge. 3M8210 or better.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance Multicoloured prills.

Odour	Slight metalic odour
Odour Threshold	Not applicable
pH	Not available
Melting Point/Freezing Point	Not applicable (melting); Not applicable (freezing)
Initial Boiling Point/Range	Not applicable
Flash Point	Not available
Evaporation Rate	Not applicable
Flammability (solid, gas)	Will not burn.
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	Not available
Solubility	Not applicable in water; Not applicable (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not applicable
Viscosity	Not applicable (kinematic)

Other Information

Physical State	Solid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Mild oxidizer. May intensify fire.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Decomposes in the presence of heat. See “Hazardous Decomposition Products”.

Conditions to Avoid

Heat. Water, moisture or humidity.

Incompatible Materials

Increased risk of fire and explosion on contact with: strong oxidizing agents (e.g. perchloric acid).

Hazardous Decomposition Products

Under fire - oxygen (a strong oxidizer); corrosive, oxidizing nitrogen oxides; extremely hazardous hydrogen cyanide.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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

Skin Corrosion/Irritation

May cause mild irritation based on information for closely related chemicals.

Serious Eye Damage/Irritation

May cause moderate aggravation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May lead to respiratory irritation.

Skin Absorption

Not absorbed through skin.

Ingestion

If large amounts are swallowed in severe cases, symptoms may include increased or decreased urination, nausea, vomiting, confusion and fatigue.

Respiratory and/or Skin Sensitization

Not known to be a skin sensitizer. Respiratory sensitizer.

Carcinogenicity

Not known to cause cancer.

Reproductive Toxicity

Development of Offspring

Not known to harm the unborn child.

SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS.

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)		
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)

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

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

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

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

WHMIS 1988 Classification

Not a WHMIS controlled product.

Custom Regulatory 1

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

SECTION 16. OTHER INFORMATION

SDS Prepared By	MPPI Technical Department
Phone No.	905-793-8000
Date of Preparation	November 21, 2014
Revision Indicators	The following SDS content was changed on October 15, 2015: SECTION 12. ECOLOGICAL INFORMATION; Acute Aquatic Toxicity. The following SDS content was changed on October 15, 2015: SECTION 12. ECOLOGICAL INFORMATION; Acute Aquatic Toxicity. The following SDS content was changed on October 15, 2015: SECTION 12. ECOLOGICAL INFORMATION; Acute Aquatic Toxicity. The following SDS content was changed on October 15, 2015: SECTION 12. ECOLOGICAL INFORMATION; Acute Aquatic Toxicity. The following SDS content was changed on October 15, 2015: SECTION 12. ECOLOGICAL INFORMATION; Chronic Aquatic Toxicity. The following SDS content was changed on October 15, 2015: SECTION 12. ECOLOGICAL INFORMATION; Chronic Aquatic Toxicity.
References	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. 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 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.