

ACERnt 16-7-10

SECTION 1. IDENTIFICATION

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| 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

| Chemical Name | ACGIH TLV® | | OSHA PEL | | AIHA WEEL | |
|-------------------|----------------------|------|----------------------|---------|-----------|-----|
| | TWA | STEL | TWA | Ceiling | 8-hr TWA | TWA |
| Ammonium nitrate | 10 mg/m ³ | | 15 mg/m ³ | | | |
| Potassium nitrate | 5 mg/m ³ | | | | | |

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 pills.

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| Odour | Slight metallic 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

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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**

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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

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| 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). |
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