**SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier**

**Supernatural Brand Ultimate Thrive 5-0-0**

**Product Use**

Water soluble plant food

**Manufacturer's Name**

Rapidgrow Industries Inc.

**Supplier's Name**

Same as manufacturer.

**Street Address**

20203 113B Ave.

**City Province**

Maple Ridge BC

**Postal Code**

V2X 0Z1

**Emergency Telephone**

604 465 2344/604 866 1698

**Date MSDS Prepared**

2012/10/13

**MSDS Prepared By**

Brian Franczuz

**SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Hazardous Ingredients (specific)</th>
<th>%</th>
<th>CAS Number</th>
<th>LD₅₀ of Ingredient</th>
<th>LC₅₀ of Ingredient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Nitrate</td>
<td>5</td>
<td>6484-52-2</td>
<td>LD50 Oral [Rat] 2217 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

**SECTION 3 — HAZARDS IDENTIFICATION**

**Route of Entry**

- Skin Contact
- Skin Absorption
- Eye Contact
- Inhalation
- Ingestion

**[WHMIS Symbols]**

**[Potential Health Effects]**

- Eyes - Irritation and burns.
- Skin - Irritation and burns.
- Inhalation - Nose, throat and lung irritation with coughing, wheezing and shortness of breath. Headache, dizziness, nausea and vomiting.
- Ingestion - Headache, dizziness, nausea and vomiting.

**SECTION 4 — FIRST AID MEASURES**

**Skin Contact**

Remove contaminated clothing. Flush affected area with water for 15 minutes. Wash affected area with mild soap and water. Get medical attention if irritation develops or persists.

**Eye Contact**

Immediately flush eyes with plenty of water. Remove any contact lenses (if easy to do) and continue flushing for 15 minutes. Get medical attention if irritation develops or persists.

**Inhalation**

If ammonia gas is inhaled from treated fertilizer and breathing has stopped, begin artificial respiration. If breathing is laboured, give oxygen and seek medical attention.

**Ingestion**

Immediately rinse mouth out with plenty of water. If within 30 minutes after ingestion, give person a small glass of water or milk. NEVER give anything by mouth to an unconscious person. Do not induce vomiting unless instructed to do so by a physician or poison center. Seek medical attention immediately.

**SECTION 12 — ECOLOGICAL INFORMATION**

**[Aquatic Toxicity]**

**SECTION 13 — DISPOSAL CONSIDERATIONS**

**SECTION 14 — TRANSPORT INFORMATION**

**Special Shipping Information**

**PIN**

**[DOT]**

**[IMDG]**

**[ICAO]**

**SECTION 15 — REGULATORY INFORMATION**

**[WHMIS Classification]**

**[OSHA]**

**[SEPA]**

**[BSGA]**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

**SECTION 16 — OTHER INFORMATION**
SECTION 5 — FIRE FIGHTING MEASURES

Flammable

- Flashpoint (°C) and Method
  - Lower Flammable Limit (% by volume)
  - Upper Flammable Limit (% by volume)
  - Autodition Temperature (°C)

- Means of Extinction
  - Fire, Water which conditions?
  - Strong Oxidizer, contact with other material such as drying on clothes may cause fire

- Flashpoint (°C) and Method
  - NA

- Explosion Data
  - Sensitivity to Impact
  - Sensitivity to Static Discharge

- Hazardous Combustion Products
  - Nitrogen oxides, metal oxide / oxides.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures

- Leaking or Spilled Material:
  - Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment

- Avoid direct and prolonged contact with skin.

Storage Requirements

- Store in cool, dry area in closed container or package. Keep containers closed at all times. Do not use containers.
- Store away from incompatible materials. Use with proper personal protective equipment. Keep out of reach of children.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits

- Specific Engineering Controls (such as ventilation, enclosed processes)
  - Ventilate to control mist.
- Personal Protective Equipment
  - Gloves
  - Respirator
  - Eye
  - Footwear
  - Clothing

- If checked, please specify type
  - Respiratory - Dust mask if conditions warrant.
  - Eyes - Wear safety glasses to avoid eye contact. Do not wear contact lenses.
  - Skin - Wear impermeable gloves to avoid skin contact.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State

- Odour and Appearance

- Odour Threshold (ppm)

Specific Gravity

- Vapour Density (air = 1)

- Vapour Pressure (mmHg)

Evaporation Rate

- Boiling Point (°C)

Freezing Point (°C)

pH

- Coefficient of Water/Oil Distribution

- Solubility in Water

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability

- Incompatible with Other Substances

- Reactive, under what conditions?

Hazardous Decomposition Products

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure

Effects of Chronic Exposure

Skin Sensitization

- Respiratory Sensitization

Carcinogenicity — IARC

- Carcinogenicity — ACGIH

Reproductive Toxicity

- Teratogenicity

Embryotoxicity

- Mutagenicity

Name of Synergistic Products/Effects

- [Optional, not required under WHMIS]

Product Identifier

- [Optional, not required under WHMIS]

Please continue on reverse side
SECTION 5 — FIRE FIGHTING MEASURES

Flammable: Yes  No

Means of Extinction

Flashpoint (°C) and Method

Upper Flammable Limit (% by volume)

Lower Flammable Limit (% by volume)

Autoignition Temperature (°C)

Explosion Data — Sensitivity to Impact

Explosion Data — Sensitivity to Static Discharge

Hazardous Combustion Products

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures

SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment

Storage Requirements

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits

ACGIH TLV

OSHA PEL

Other (specify)

Specific Engineering Controls (such as ventilation, enclosures, pressurization)

Personal Protective Equipment

Gloves

Respirator

Eye

Footwear

Clothing

Other

If checked, please specify type

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Liquid

Odour and Appearance

Liquid - Aqueous solution - dark brown

Odour

Olorless

Specific Gravity

1.25

Vapour Density (air = 1)

ND

Explosion Point

1.11C / 30F

Coefficient of Water/Oil Distribution

5.8

[Optional, not required under WHMIS]

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability

Yes  No

Incompatibility with Other Substances

Yes, which ones?

Strong acids, strong alkalies, oxidizers, organics.

Reactivity and under what conditions?

High heat may cause dangerous boil up of pressure. Contact with combustable materials may cause or intensify fire.

Hazardous Decomposition Products

Oxides of nitrogen, cyanuric acid, CO2.

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure

Skin Contact - Irritation could occur with prolonged exposure to dry fertilizer or fertilizer solution. Contact with heated solution may cause thermal burns.

Skin Absorption - Not known to be absorbed through the skin.

Eye Contact - Irritation could occur if fertilizer solution is splashed in eyes or dry product contacts eyes. Heated material may cause thermal burns.

Effects of Chronic Exposure

Inhalation - Very low vapour activity. If heated could release ammonia gas. Can cause respiratory tract irritation.

Ingestion - Excessive ingestion must occur before any health hazard results, effects of overexposure may include nausea, vomiting, diarrhea, weakness or convulsions.

Sensitivity of Product

Skin Sensitization

Respiratory Sensitization

Carcinogenicity – IARC

None known.

Carcinogenicity – ACGIH

None known.

Reproductive Toxicity

None known.

Teratogenicity

None known.

Mutagenicity

None known.

Name of Synergistic Products/Effects

ND

[Optional, not required under WHMIS]

Please continue on reverse side
SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier [WHMIS Classification]

Product Use

Manufacturer’s Name
Supplier’s Name

Street Address

Street Address

City Province
City Province

Postal Code
Emergency Telephone
Postal Code
Emergency Telephone

Date MSDS Prepared
MSDS Prepared By
Phone Number

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients

% CAS Number LD₅₀ of Ingredient (specify species and route) LC₅₀ of Ingredient (specify species)

SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry

[Emergency Overview]

WHMIS Symbols

[Potential Health Effects]

SECTION 4 — FIRST AID MEASURES

Skin Contact

Eye Contact

Inhalation

Ingestion

SECTION 12 — ECOLOGICAL INFORMATION

Aquatic Toxicity

LC₅₀ 9100 mg/L NOEC- 6mg/L Fresh water -species Fish, crustaceans-Cladocera. Exposure 96Hrs.(21 days)

SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal

Dispose of in non-crop areas away from waterways, in accordance with federal, provincial and local regulations.

SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information

Not regulated by TDG.

PIN

TDG [DOT]

[IMO] [ICAO]

SECTION 15 — REGULATORY INFORMATION

WHMIS Classification

Class C Oxidizer

[OSHA]

[BSRA]

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16 — OTHER INFORMATION

NA = Not Applicable.

ND = Not Determined.

SAMPLE FORMAT PROVIDED BY THE WORKERS’ COMPENSATION BOARD OF BRITISH COLUMBIA

Please continue on reverse side

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