

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: PLANTACOTE[®] Top K 4M, 6M, 8M, 12M
 Product No: 52933, 52934, 52935, 52936
 Product Use: Plant nutrition, controlled-release fertiliser

New Zealand Supplier: Horticulture Ltd
 Address: 10 Firth Street
 Drury 2113

Telephone: +64 9 294 8453
 Fax Number: +64 9 294 7272

New Zealand: **0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 4 August 2014

Section 2. Hazards Identification

The manufacturer has stated that this substance is hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001*

Group Standard & EPA Approval Code: Fertilisers (Oxidising) – HSR002570

Pictograms



Oxidising



Irritant



Chronic

Signal Word: **WARNING**

| HSNO Class. | Hazard Code | Hazard Statement | GHS Category |
|-------------|-------------|------------------|--------------|
|-------------|-------------|------------------|--------------|

| | | | |
|--------|------|--|-------------|
| 5.1.1C | H272 | May intensify fire oxidizer. | Category 3 |
| 6.1E | H303 | May be harmful if swallowed. | Category 5 |
| 6.4A | H319 | Causes serious eye irritation. | Category 2A |
| 6.8B | H361 | Suspected of damaging fertility or the unborn child. | Category 2 |
| 9.1D | H401 | Toxic to aquatic life. | Category 4 |

Prevention Code Prevention Statement

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| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P202 | Do not handle until all the safety precautions have been read and understood. |

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| P210 | Keep away from heat, sparks, open flames or hot surfaces. No smoking. |
| P220 | Keep/Store away from clothing and incompatible materials or combustible materials. |
| P221 | Take any precaution to avoid mixing with combustibles and incompatible materials. |
| P281 | Use personal protective equipment. |

Response Code Response Statement

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| P101 | If medical advice is needed, have product container or label at hand. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P331 | Do NOT induce vomiting. |
| P338 | Remove contact lenses, if present and easy to do. Continue rinsing. |
| P305 + P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

Storage Code Storage Statement

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| P405 | Store in a closed container. |
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Disposal Code Disposal Statement

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| P501 | Triple rinse container. Cleaned packaging maybe offered for recycling or landfill in accordance with local regulations. Dispose of unwanted product as a hazardous material according to Local Regulations. |
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Section 3. Composition / Information on Ingredients

| Ingredients | Wt% | CAS NUMBER. |
|---------------------------------|------------|--------------------|
| Ammonium Nitrate | <45 | 6484-52-2 |
| Sodium Tetraborate Pentahydrate | <1 | 12179-04-3 |

Section 4. First Aid Measures

Routes of Exposure:

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| If in Eyes | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical advice. |
| If on Skin | Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. |
| If Swallowed | Immediately rinse the mouth with water, then drink a lot of water. Consult the doctor in case of persistent trouble. |
| If Inhaled | Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult. |

Section 5. Fire Fighting Measures

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| Hazard Type | Oxidiser |
| Hazards from | The material itself is harmless and hardly inflammable. Ambient fire may |

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| decomposition products | liberate hazardous vapours. If larger quantities of the product are on fire, the formation of nitrous gases, ammonia, sulfuric acid gases and phosphoric acid gases is possible. |
| Suitable Extinguishing media | Water Unsuitable: Do not use chemical extinguishers or foams or attempt to smother the fire with steam or sand. |
| Precautions for firefighters and special protective clothing | Do not stay in dangerous zone without suitable protecting clothes and self-contained breathing apparatus. Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater. |
| HAZCHEM CODE | 1Y |

Section 6. Accidental Release Measures

Avoid generation of dusts, do not inhale dusts. Avoid substance contact. Wear closed working clothes, and in event of dust wear protecting glasses and hand protection. Remove soiled clothes. See section 8.

Take up the product mechanically. Sweep or vacuum material when possible and shovel into a waste container.

Disposal of contaminated material as waste according to section 13.

Ensure that the product does not reach the ground-water, water bodies or the drainage system.

Section 7. Handling and Storage

Handling

- Keep out of reach of children.
- Read label before use.
- Do not handle until all the safety precautions have been read and understood.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep/Store away from clothing and incompatible materials or combustible materials.
- Take any precaution to avoid mixing with combustibles and incompatible materials.
- Protect the product from weather factors, high humidity, direct solar radiation, heat up and impurity.
- For working use only well ventilated areas.
- Wear suitable protecting clothes. Avoid product contact and formation of dust. Do not inhale dusts. In event of dust wear respiratory protection, safety glasses and gloves. Remove soiled and soaked clothes and wash hands and face after work (see section 8).
- At the stockrooms no smoking and no dealing with fire or open light.

Storage

- It is recommended to design stockrooms so that the product is well-protected from weather factors, humidity, solar radiation, heat up and impurities.
- Keep stockrooms free from fireplaces and other ignition sources.
- Keep containers tightly closed and store in a cool dry place.
- To fight a fire and decomposition keep care of a sufficient water supply.
- Ensure high standard of housekeeping in the storage area.
- Do not store together with:
 - strong alkaline materials,
 - strong acid materials,
 - combustible materials,
 - substances, which form perilous reactions with ammonium nitrate.
- Do not store together with food and luxury food, beverage and animal feed.

Section 8 Exposure Controls / Personal Protection

Engineering Controls

Not applicable. Ensure adequate ventilation to minimize exposure

Personal Protection

Eyes: In event of dust wear safety glasses with side shields or goggles

Skin: Closed working clothes.

Hand: Chemical resistance rubber or plastic gloves.

Respiratory: Not required. Respiratory protection necessary at dust formation.

Section 9 Physical and Chemical Properties

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| Appearance | Solid granules |
| Colour | Beige to light brown |
| Odour | Product specific |
| Change in physical state: | > 180° C decomposition |
| Self ignition | The product is not spontaneously inflammable. |
| Density (at 20°C) | approx. 1g/cm ³ |
| Solubility in Water (at 20°C) | Partly soluble |

Section 10. Stability and Reactivity

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| Stability of Substance | The product is stable under normal conditions. |
| Conditions to Avoid | High humidity, direct solar radiation, temperatures above +130° C. |
| Incompatible Materials | Alkalis, calcinated lime, slaked lime, calcium cyanamide, cement, all acids, chlorate, chlorite, hypochloride, nitrite, chlorinated herbicides, coal dust, sulfur, oil, fuel, painting material, lacquer, organic peroxide, metal powder, grain, paper, textiles, waste wool, wood, wood fiber, hay, straw, cardboards, combustible packing materials. |
| Hazardous Decomposition Products | Reacts with alkalis setting ammonia free. |
| Thermic Decomposition Products | If larger quantities of the product are on fire, the formation of nitrous gases, ammonia, sulfuric acid gases and phosphoric acid gases is possible. No decomposition if correctly used. |

Section 11 Toxicological Information**Toxicological tests**

Acute toxicity:

LD₅₀ (oral): =4827 mg/kg.

Further toxicological information

After eye contact: Causes serious eye irritation.

Chronic

Suspected of damaging fertility or the unborn child.

Section 12. Ecotoxicological Information

HSNO Classes: 9.1D = Toxic to aquatic life.

Ensure that the product does not reach the ground-water, water bodies or the drainage system.

Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of drinking-water supplies.

The following applies to ammonium ions in general:

Biological effects: fish: toxic as from 0.3 mg/l ;
animal nourishment for fish: toxic as from 0.3 mg/l .

No ecological problems are to be expected when the product is handled and used with due care and attention.

Section 13. Disposal Considerations

Triple rinse container. Cleaned packaging maybe offered for recycling or landfill in accordance with local regulations. Dispose of unwanted product as a hazardous material according to Local Regulations.

Section 14 Transport Information

This product is not classified as a Dangerous Good for transport in NZ ; NZS 5433:2012 Special Provision 270.

Section 15 Regulatory Information

EPA Approval Code: Fertilisers (Oxidising) - HSR002570

HSNO Classification: 5.1.1C, 6.1E(oral), 6.4A, 9.1D

HSNO Controls:

Trigger quantities for this substance:

| | Trigger Quantity |
|--|------------------|
| Approved Handler | Not required |
| Location Certificate | 1000L/kg |
| Tracking Trigger Quantities | Not applicable |
| Signage Trigger Quantities | 1000L/kg |
| Emergency Response Plan trigger Quantities | 5000L/kg |

Section 16 Other Information

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

Disclaimer

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Please contact the New Zealand distributor, Horticulture Ltd, if further information is required.

Issue Date: 4 August 2014

Review Date: 4 August 2019