

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: PLANTACOTE[®] Pluss 4M, 6M, 8M, 12M, 16M
 Product No: 52205, 52206, 52207, 52208, 52217
 Product Use: Plant nutrition, controlled-release fertiliser

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

Telephone: +64 9 294 8453
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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

Signal Word: **WARNING**

HSNO Class.	Hazard Code	Hazard Statement	GHS Category
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5.1.1C	H272	May intensify fire oxidiser.	Category 3
6.1E	H303	May be harmful if swallowed.	Category 5
6.4A	H319	Causes serious eye irritation.	Category 2A
9.1D	H401	Toxic to aquatic life.	Category 4

Prevention Code Prevention Statement

P102	Keep out of reach of children.
P103	Read label before use.
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.
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Response Code Response Statement

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

None Allocated	
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Disposal Code Disposal Statement

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	10-45	6484-52-2

Section 4. First Aid Measures

Routes of Exposure:

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

Hazard Type	Oxidiser
Hazards from decomposition products	The material itself is harmless and hardly inflammable. Ambient fire may 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	Do not stay in dangerous zone without suitable protecting clothes and

firefighters and special protective clothing	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.

Do not allow to enter waterways.

Section 7. Handling and Storage

Handling

- Keep out of reach of children.
- Read label before use.
- 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

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

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): =4926 mg/kg.

Further toxicological information
After eye contact: Causes serious eye irritation.

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	1000L/kg
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.

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4 August 2019