

## SAFETY DATA SHEET

#### Section 1. Identification of the material and the supplier

PLANTACOTE<sup>®</sup> Top K Product:

Plantacote 4M Top K 10-9-19 Product No:

Plantacote 6M Top K 10-9-19 Plantacote 8M Top K 9-9-19 Plantacote 12M Top K 9-9-18

Product Use: Plant nutrition, slow release fertilizer

Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticentre Ltd Address: 10 Firth Street Drury, 2113

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

**Emergency Telephone:** 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 4 March 2020 v2

#### Section 2. **Hazards Identification**

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No: Fertiliser (subsidiary) - HSR002571

## **Pictograms**





Irritant Chronic

Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
9.1D	H402	Harmful to aquatic life.	Aquatic Acute 3

<b>Prevention Code</b>	Prevention Statement	
P103	Read label before use.	
P201	Obtain special instructions before use.	

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P202	Do not handle until all safety precautions have been read and understood.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.
P281	Use personal protective equipment as required.

Response Code	Response Statement	
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove	
P351+P338	contact lenses, if present and easy to do. Continue rinsing.	
P308 + P313	IF exposed or concerned: Get medical advice/ attention.	
P337 + P313	If eye irritation persists: Get medical advice/attention.	

Storage Code	Storage Statement
P405	Store locked up.

<b>Disposal Code</b>	Disposal Statement	
P501	Dispose of according to Local Regulations or Authorities	

#### Section 3. **Composition / Information on Ingredients**

Ingredients	Wt%	CAS NUMBER.
Ammonium Nitrate	20-30	6484-52-2
Calcium sulphate	0.5-5	7778-18-9
Disodium tetraborate decahydrate, borax decahydrate	<1	1303-96-4

#### 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.

## Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Not applicable. Inhalation: Not applicable. Skin: Not applicable.

Causes severe eye irritation. Eyes:

Suspected of damaging fertility or the unborn child. **Chronic:** 

**Treatment:** Treat symptomatically.

#### Section 5. **Fire Fighting Measures**

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Hazard Type	Non Flammable
Hazards from decomposition products	Nitrogen oxides. Ammonia. Phosphorus oxides. Sulphur oxides. Metal oxides.
Suitable Extinguishing media	Flood fire area with water from a distance. Unsuitable: earth, sand, dry chemical powder or foam.
Precautions for firefighters and special protective clothing	Use self-contained breathing apparatus and chemically protective clothing. Do not allow run-off from firefighting to enter drains or water courses.
HAZCHEM CODE	1Z

### Section 6. Accidental Release Measures

Evacuate unnecessary personnel. Do not touch or walk on the spilled product. Ventilate spillage area. Wear PPE as detailed in 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

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Avoid contact with skin, eyes and clothing.
- Do not eat, drink or smoke when using this product.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Use personal protective equipment as required.

## Storage

- · Keep out of reach of children.
- Store locked up.
- Do not store with: Organic materials. oxidizing materials. Acids. Alkali.
- Store tightly closed in a dry, cool and well-ventilated place.
- Keep only in the original container.
- Keep out of direct sunlight.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	mg/m³	STEL ppm	mg/m³
Calcium Sulphate (Cas no 778-18-9)	-	10	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the

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short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

**Engineering Controls:** Ensure adequate ventilation to minimize exposure

## **Personal Protection Equipment**



Eyes	Chemical goggles or safety glasses. EN 166		
Skin	Handle in accordance with good industrial hygiene and safety practice		
Respiratory	No respiratory protection needed under normal use conditions.		
General	After contact with skin, wash immediately and thoroughly with plenty of		
	water.		

Section 9	Physical and Chemical Properties
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Annonyango	Solid
Appearance	
Colour	Beige
Odour	Characteristic
Odour Threshold	Not available
pH (ph1% solution)	Not available
<b>Boiling Point</b>	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Non flammble
Upper and Lower	Not available
<b>Explosive Limits</b>	
Vapour Pressure	Not available
Vapour Density	Not available
Density	1 g/cm3 at 20 °C
Solubilities	Very soluble in water.
Partition Coefficient:	Not available
Auto-ignition	Not available
Temperature	
Decomposition	Not available
Temperature	
Kinematic Viscosity	Not available
Particle Size	Not available

## Section 10. Stability and Reactivity

Stability of Substance	This material is t stable when stored and used as directed.	
Hazardous Reactions	No dangerous reactions known under normal conditions of use.	
Conditions to Avoid	Water, humidity. metals. Organic Substances.	
Incompatible Materials	Acids. Combustible materials. Reducing agents. Organic	
	materials. Alkali. Oxidizing agent.	
<b>Hazardous Decomposition</b>	No hazardous decomposition products known at room	
Products	temperature. Thermal decomposition generates: Metal oxides.	
	Sulphur oxides. Phosphorus oxides. Ammonia. Nitrogen oxides.	

# Section 11 Toxicological Information

## **Acute Effects:**

Swallowed Not applicable. Mixture rules calculation = 7169mg/kg
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Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes severe eye irritation.
Skin	Not applicable.

### **Chronic Effects:**

Carcinogenicity	Not applicable.
Reproductive	Suspected of damaging fertility or the unborn child.
Toxicity	
Germ Cell	Not applicable.
Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

## **Individual component information:**

## **Acute Toxicity:**

Chemical Name	Oral - LD50	Dermal - LD50	Inhalation - LC50
Ammonium Nitrate	>2217 mg/kg	> 5000 mg/kg (rat)	> 88,8 mg/l 4h
(Cas no 6484-52-2)	(rat) (CCID)	(OECD 402 method)	(rat)
Sodium Tetraborate	2403mg/kg (rat)	-	-
Pentahydrate (Cas no	(CCID)		
12179-04-3)			
Calcium sulphate (7778-	>2000mg/kg (rat)	-	-
18-9)			

## **Section 12. Ecotoxicological Information**

HSNO Classes: 9.1D = Toxic to aquatic life.

Persistence and degradability	No data available.
Bioaccumulation	No data available.
Mobility in Soil	No data available.
Other adverse effects	No data available.

Ammonium nitrate (AN) (6484-52-2)		
LC50 fish 1	447 mg/l 48h	
EC50 Daphnia 1	490 mg/l IUCLID 5	
Calcium sulphate (7778-18-9)		
LC50 fish 1	3278 mg/l IUCLID 5	

Do not allow to enter waterways.

## **Section 13. Disposal Considerations**

### **Disposal Method:**

Empty containers should be taken for recycle, recovery or waste in accordance with local regulation. Triple rinse and dispose according to Local Regulations.

Precautions or methods to avoid: Do not discharge into drains or rivers.

#### **Section 14 Transport Information**

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012

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#### Section 15 **Regulatory Information**

EPA Approval Code: Fertiliser (subsidiary) - HSR002571

HSNO Classification: 6.4A, 6.8B, 9.1D

HSWA & EPA Controls	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	10 000kg (9.1D)
Emergency Response Plan	10 000kg (9.1D)
Secondary Containment	10 000kg (9.1D)
Restriction of Use	None

#### Section 16 Other Information

Glossary

 $EC_{50}$ Median effective concentration. **EEL** Environmental Exposure Limit. **EPA Environmental Protection Authority** 

**HSNO** Hazardous Substances and New Organisms.

Lethal concentration that will kill 50% of the test organisms  $LC_{50}$ 

inhaling or ingesting it.

Lethal dose to kill 50% of test animals/organisms.  $LD_{50}$ 

LEL Lower explosive level.

American Occupational Safety and Health Administration. OSHA

Tolerable Exposure Limit. TEL

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

### References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
- Assigning a hazardous substance to a HSNO Approval (Aug 2013). 3.
- 4. Transport of Dangerous goods on land NZS 5433:2012
- 5. HSW (Hazardous Substances) Regulations 2017

### Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-todate information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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

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