

Safety Data Sheet
according to WHS Regulations

Printing date 08.05.2020

Version number 1

Revision: 08.05.2020

1 Identification

- **Product identifier**
- **Trade name:** *PastureBoost*
- **Article number:** *DKB028*
- **Relevant identified uses of the substance or mixture and uses advised against**
Liquid N,P,K with trace elements
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Company: Omnia Specialities Australia Pty Ltd
Address: Tramway Road
MORWELL VIC 3840
Telephone Number: +61-3 5133 9118
Facsimile Number: +61-3 5133 9114
- **Further information obtainable from:** *info@omnia.net.au*
- **Emergency telephone number:**
ISS First Response
03 8796 3688

2 Hazard(s) Identification

- **Classification of the substance or mixture**

*health hazard**Carc. 1B H350i May cause cancer by inhalation.**corrosion**Eye Dam. 1 H318 Causes serious eye damage.**environment**Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.**Skin Irrit. 2 H315 Causes skin irritation.**Acute Tox. 5 H303 May be harmful if swallowed.**Acute Tox. 5 H333 May be harmful if inhaled.*

- **Label elements**

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

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· **Hazard pictograms**

GHS05 GHS08 GHS09

· **Signal word** *Danger*· **Hazard-determining components of labelling:**

PHOSPHORIC ACID 98%

UREA GRANULAR

Boron 20.5

COBALT SULPHATE

MANGANESE SULPHATE MONOHYDRATE

ZINC SULPHATE`

EDTA, DiSodium, dihydrate

IRON SULPHATE HEPTAHYDRATE

COPPER SULPHATE PENTAHYDRATE

· **Hazard statements***May be harmful if swallowed.**May be harmful if inhaled.**Causes skin irritation.**Causes serious eye damage.**May cause cancer by inhalation.**Toxic to aquatic life with long lasting effects.*· **Precautionary statements***If medical advice is needed, have product container or label at hand.**Keep out of reach of children.**Read label before use.**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**Immediately call a POISON CENTER/doctor.**Specific treatment (see on this label).**Take off contaminated clothing and wash it before reuse.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*· **Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

PHOSPHORIC ACID 98%	10-25%
☞ Skin Corr. 1B, H314	
UREA GRANULAR	2.5-10%
⚠ Acute Tox. 4, H302; Acute Tox. 4, H312 Eye Irrit. 2B, H320	
Potassium Phosphate Monobasic	2.5-10%
Acute Tox. 5, H303	
MANGANESE SULPHATE MONOHYDRATE	2.5-10%
⚠ STOT RE 2, H373	
⚠ Aquatic Chronic 2, H411	
⚠ Acute Tox. 4, H302	

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ZINC SULPHATE` ⚠ Eye Dam. 1, H318 ⚠ Aquatic Chronic 1, H410 ⚠ Acute Tox. 4, H302	2.5-10%
Boron 20.5 ⚠ Repr. 2, H361 ⚠ Acute Tox. 4, H332 Acute Tox. 5, H303; Acute Tox. 5, H313	≤2.5%
IRON SULPHATE HEPTAHYDRATE ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	≤2.5%
COPPER SULPHATE PENTAHYDRATE ⚠ Aquatic Chronic 1, H410 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	≤2.5%
EDTA, DiSodium, dihydrate ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311 ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	≤2.5%
COBALT SULPHATE ⚠ Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1B, H350i; Repr. 1B, H360F ⚠ Aquatic Chronic 1, H410 ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	≤2.5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

· **Other hazards that do not result in classification** None

4 First Aid Measures

· **Description of first aid measures**

· **After inhalation:**

Remove to fresh air. In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. Flush affected areas with plenty of water and soap.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **Information for doctor:** Treat symptomatically

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire Fighting Measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:** Use breathing apparatus with independent air supply (Isolated)

6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective gear. Do not inhale the material or its combustion products. Go against the wind and keep out of low areas. Evacuate personnel to safe area.

· **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

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Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water. Should not be released into the environment.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Transfer into suitable containers. To be disposed of in compliance with existing regulations. After cleaning, flush away traces with water.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

· **Handling:**

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Face shields and gloves recommended during handling of product.

Overalls recommended when handling liquid.

· **Information about fire - and explosion protection:** Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store and transport in sealed containers below 40°C and above -10°C.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep container tightly sealed in a dry well-ventilated place.

· **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

· **Additional information about design of technical facilities:**

Ensure eyewash stations and safety showers are close to the workstation location.

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

PHOSPHORIC ACID 98%

NES Short-term value: 3 mg/m³

Long-term value: 1 mg/m³

WES Short-term value: 3 mg/m³

Long-term value: 1 mg/m³

IRON SULPHATE HEPTAHYDRATE

NES Long-term value: 1 mg/m³

as Fe

WES Long-term value: 1 mg/m³

as Fe

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

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Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and Chemical Properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Liquid
Colour:	Greenish Brown
· Odour:	Slight Pungent
· Odour threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gas): Not applicable.

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

· Explosion limits:

Lower:	Not determined.
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Upper:	Not determined.
· Vapour pressure at 20 °C:	23 hPa
· Density at 20 °C:	1.35 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Water:	37.5 %
VOC (EC)	0.00 %
· Solids content:	0.0 %
· Other information	No further relevant information available.

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

· LD/LC50 values relevant for classification:		
MANGANESE SULPHATE MONOHYDRATE		
Oral	LD50	500 mg/kg (rat)
ZINC SULPHATE`		
Oral	LD50	2,150 mg/kg (rat)
COPPER SULPHATE PENTAHYDRATE		
Oral	LD50	1,000 mg/kg (Pheasant)
		960 mg/kg (rat)
COBALT SULPHATE		
Oral	LD50	500 mg/kg (ATE)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** Strong irritant with the danger of severe eye injury.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

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- Irritant*
- Carcinogenic if inhaled.*
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- Carc. 1B*

12 Ecological Information

- Toxicity**

- Aquatic toxicity:**

COPPER SULPHATE PENTAHYDRATE	
LC50 96 hours	1.38 mg/L (<i>Carassius auratus</i> (Goldfish))
	3.5 mg/L (<i>Lepomis cyanellus</i> (Green Sunfish))
	17 mg/L (Prawn)
COBALT SULPHATE	
LC50 24 hours	0.61 mg/L (Fish)
LC50 48 hours	144 mg/L (Algae)

- Persistence and degradability** No further relevant information available.

- Behaviour in environmental systems:**

- Bioaccumulative potential** No further relevant information available.

- Mobility in soil** No further relevant information available.

- Ecotoxicological effects:**

- Remark:** Toxic for fish

- Additional ecological information:**

- General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- Results of PBT and vPvB assessment**

- PBT:** Not applicable.

- vPvB:** Not applicable.

- Other adverse effects** No further relevant information available.

13 Disposal considerations

- Waste treatment methods**

- Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:**

- Recommendation:** Disposal must be made according to official regulations.

- Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- UN-Number**

- ADG, IMDG, IATA**

UNI760

- UN proper shipping name**

- ADG**

CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID, SOLUTION), ENVIRONMENTALLY HAZARDOUS

- IMDG**

CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID, SOLUTION, MANGANESE SULPHATE MONOHYDRATE, ZINC SULPHATE, COPPER

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· IATA	SULPHATE PENTAHYDRATE, COBALT SULPHATE), MARINE POLLUTANT CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID, SOLUTION)
· Transport hazard class(es) · ADG, IMDG	
 	
· Class · Label	8 Corrosive substances. 8
· IATA	
	
· Class · Label	8 Corrosive substances. 8
· Packing group · ADG, IMDG, IATA	III
· Environmental hazards: · Marine pollutant: · Special marking (ADG):	Product contains environmentally hazardous substances: ZINC SULPHATE` Symbol (fish and tree) Symbol (fish and tree)
· Special precautions for user · Danger code (Kemler): · EMS Number: · Segregation groups · Stowage Category · Stowage Code · ERG No.	Warning: Corrosive substances. 80 F-A,S-B Acids A SW2 Clear of living quarters. None
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category · Tunnel restriction code	3 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

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· **UN "Model Regulation":** UN 1760 CORROSIVE LIQUID, N.O.S.
(PHOSPHORIC ACID, SOLUTION), 8, III,
ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Chemical Substances**

	PHOSPHORIC ACID 98%
	UREA GRANULAR
	Potassium Phosphate Monobasic
	MANGANESE SULPHATE MONOHYDRATE
	ZINC SULPHATE`
	IRON SULPHATE HEPTAHYDRATE
	COPPER SULPHATE PENTAHYDRATE
10102-40-6	Sodium Molybdate
	COBALT SULPHATE
	DE-IONISED WATER

· **Standard for the Uniform Scheduling of Medicines and Poisons**

PHOSPHORIC ACID 98%	S5, S6
ZINC SULPHATE`	S6
COPPER SULPHATE PENTAHYDRATE	S5, S6

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS05 GHS08 GHS09

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**

PHOSPHORIC ACID 98%
UREA GRANULAR
Boron 20.5
COBALT SULPHATE
MANGANESE SULPHATE MONOHYDRATE
ZINC SULPHATE`
EDTA, DiSodium, dihydrate
IRON SULPHATE HEPTAHYDRATE
COPPER SULPHATE PENTAHYDRATE

· **Hazard statements**

May be harmful if swallowed.
May be harmful if inhaled.
Causes skin irritation.
Causes serious eye damage.
May cause cancer by inhalation.
Toxic to aquatic life with long lasting effects.

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· Precautionary statements*If medical advice is needed, have product container or label at hand.**Keep out of reach of children.**Read label before use.**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**Immediately call a POISON CENTER/doctor.**Specific treatment (see on this label).**Take off contaminated clothing and wash it before reuse.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.***· Directive 2012/18/EU****· Named dangerous substances - ANNEX I** *None of the ingredients is listed.***· Seveso category E2** *Hazardous to the Aquatic Environment***· Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t**· Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t**· Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.***· Relevant phrases***H301 Toxic if swallowed.**H302 Harmful if swallowed.**H303 May be harmful if swallowed.**H311 Toxic in contact with skin.**H312 Harmful in contact with skin.**H313 May be harmful in contact with skin.**H314 Causes severe skin burns and eye damage.**H315 Causes skin irritation.**H317 May cause an allergic skin reaction.**H318 Causes serious eye damage.**H319 Causes serious eye irritation.**H320 Causes eye irritation.**H332 Harmful if inhaled.**H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.**H335 May cause respiratory irritation.**H341 Suspected of causing genetic defects.**H350i May cause cancer by inhalation.**H360F May damage fertility.**H361 Suspected of damaging fertility or the unborn child.**H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.**H410 Very toxic to aquatic life with long lasting effects.**H411 Toxic to aquatic life with long lasting effects.***· Abbreviations and acronyms:***ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**VOC: Volatile Organic Compounds (USA, EU)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Acute Tox. 3: Acute toxicity – Category 3**Acute Tox. 4: Acute toxicity – Category 4*

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*Acute Tox. 5: Acute toxicity – Category 5**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A**Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B**Resp. Sens. 1: Respiratory sensitisation – Category 1**Skin Sens. 1: Skin sensitisation – Category 1**Muta. 2: Germ cell mutagenicity – Category 2**Carc. 1B: Carcinogenicity – Category 1B**Repr. 1B: Reproductive toxicity – Category 1B**Repr. 2: Reproductive toxicity – Category 2**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2**Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

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