

Safety Data Sheet according to WHS Regulations

Printing date 27.05.2019

Version number 1

Revision: 27.05.2019

1 Identification

- **Product identifier**
- **Trade name:** *Omnical*
- **Article number:** *DK042*
- **Relevant identified uses of the substance or mixture and uses advised against**
For use in the agricultural sector.
- **Technical function** *Compound fertilizer ingredient*
- **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 8769 3688

2 Hazard(s) Identification

- **Classification of the substance or mixture**

*skull and crossbones**Acute Tox. 3 H311 Toxic in contact with skin.**Acute Tox. 4 H332 Harmful if inhaled.**Acute Tox. 5 H303 May be harmful if swallowed.*

- **Label elements**

- **GHS label elements**

*The substance is classified and labelled according to Safe Work Australia GHS Hazardous Chemical Information List**The substance is classified and labelled according to the Globally Harmonised System (GHS).*

- **Hazard pictograms**

*GHS06*

- **Signal word** *Danger*

- **Hazard statements**

*H303 May be harmful if swallowed.**H311 Toxic in contact with skin.**H332 Harmful if inhaled.*

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· Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 - P280 Wear protective gloves / protective clothing.
 - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - P321 Specific treatment (see on this label).
 - P405 Store locked up.
 - P501 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: Substances**
- **CAS No. Description**
- Omnical

4 First Aid Measures

- **Description of first aid measures**
- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
Remove to fresh air. In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Wash off with soap and plenty of water. Wash contaminated clothing before re-use.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Call for a doctor immediately. Do not induce vomiting. Rinse mouth with water (only if person is conscious).
- **Information for doctor:**
Treat supportive and symptomatically
Check for hypercalcemia
Monitor vital signs, blood pressure, respiration and onset of cyanosis. Administer oxygen if there are clinical signs of methemoglobinaemia. Methylene blue is the specific antidote indicated in case of methaemoglobinemia.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
If blue colouring appears (lips, ear-lobes, finger-nails), give oxygen treatment as quickly as possible.

5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Water
- **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Nitrogen oxides (NOx)
Metal oxide fumes
- **Advice for firefighters** May support fire in absence of air
- **Protective equipment:** Mouth respiratory protective device.

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6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Contain material
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Pick up mechanically, sweep and shovel into containers. Re-use if not contaminated. If contaminated, store in suitable containers for disposal.
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**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
- **Information about fire - and explosion protection:**
Put on appropriate personal protective equipment. Keep away from open flames, shut off the production of sources of ignition. Electricity: static electricity, electricity sparks, heat. Do not breathe vapor or mist. No smoking.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:**
Store away from flammable substances.
Store away from reducing agents.
- **Further information about storage conditions:**
Keep separate from food and feed products.
Store under lock and key and out of the reach of children.
Keep container tightly sealed in a dry well-ventilated place.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** Agricultural

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:** Not required.
- **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.
Wash hands before breaks and at the end of work.

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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.

· **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:**

Avoid eye contact with this material. As a minimum safety glasses with side shields should be worn. If potential for dust exposure exists, dust resistant chemical safety goggles should be worn additionally.

· **Body protection:** Protective work clothing

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Granulate
· Colour:	White
· Odour:	Odourless
· Odour threshold:	Not determined.

· **pH-value:** 5-7

· **Change in condition**

· Melting point/freezing point:	45 °C
· Initial boiling point and boiling range:	Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Product is not flammable.

· **Ignition temperature:**

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Not determined.

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

· **Explosion limits:**

· Lower:	Not determined.
· Upper:	Not determined.

· **Vapour pressure:** Not applicable.

· **Density:** Not determined.

· Bulk density:	1,100 kg/m ³
· Relative density	Not determined.
· Vapour density	Not applicable.

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· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water at 0 °C:	600 g/l
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Other information	No further relevant information available.

10 Stability and Reactivity

- **Reactivity** Stable under normal conditions
- **Chemical stability** Stable under recommended storage conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Contact with acids releases irritant gases.
- **Conditions to avoid** Avoid incompatibles, high temperatures and heat.
- **Incompatible materials:**
 - Acids
 - Organic material
 - Reducing agents and combustible materials
- **Hazardous decomposition products:**
 - Metal oxide fumes
 - Nitrogen oxides

11 Toxicological Information

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

· **LD/LC50 values relevant for classification:**

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50 4 h	11 mg/l (ATE)

- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** None

12 Ecological Information

- **Toxicity**

· **Aquatic toxicity:**

EC50	mg/kg (Algae)	Large quantities may lead to eutrophication of surface waters and the dying of aquatic organisms
	mg/kg (Fish)	Large quantities may lead to eutrophication of surface waters and the dying of aquatic organisms
	unknown mg/kg (dap)	Large quantities may lead to eutrophication of surface waters and the dying of aquatic organisms

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- **Persistence and degradability**

This product is a fertiliser and will react in the soil as such.

Biodegradation	(Not Applicable)
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	<i>Will become part of natural mineral cycles.</i>
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- **Behaviour in environmental systems:**

- **Bioaccumulative potential**

Bioaccumulate	(Not Applicable)
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	<i>May accumulate in soils and water bodies and possibly in life forms.</i>
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- **Mobility in soil**

Koc	(Not Applicable)
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	<i>Mobile and may leach into waterways</i>
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- **Ecotoxicological effects:**

- **Remark:** Harmful to fish

- **Additional ecological information:**

- **General notes:** Harmful to 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**

Wear full safety equipment at all times. Pick up mechanically, sweep and shovel into containers. Re-use if not contaminated. Store contaminated material in suitable containers for disposal.

Disposal according to local regulations.

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, ADN, IMDG, IATA**

Void

- **UN proper shipping name**

- **ADG, ADN, IMDG, IATA**

Void

- **Transport hazard class(es)**

- **ADG, ADN, IMDG, IATA**

- **Class**

Void

- **Packing group**

- **ADG, IMDG, IATA**

Void

- **Environmental hazards:**

Not applicable.

- **Special precautions for user**

Not applicable.

- **Stowage Category**

A

- **ERG No.**

Nitrate based fertilizer

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|---|------------------------|
| · Transport in bulk according to Annex II of Marpol and the IBC Code | <i>Not applicable.</i> |
| · UN "Model Regulation": | <i>Void</i> |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Australian Inventory of Chemical Substances** *Substance is not listed.*
- **Standard for the Uniform Scheduling of Medicines and Poisons** *Substance is not listed.*
- **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.

· **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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 5: Acute toxicity – Category 5

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4