

Safety Data Sheet
according to WHS Regulations

Printing date 11.10.2018

Version number 1

Revision: 11.10.2018

1 Identification

- **Product identifier**
- **Trade name:** **MKP**
- **Article number:** DK044
- **CAS Number:**
7778-77-0
- **EC number:**
231-913-4
- **Relevant identified uses of the substance or mixture and uses advised against** For use in the agricultural sector.
- **Article category** Fertilizer
- **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**
The substance is not classified according to the Globally Harmonised System (GHS).

- **Label elements**
Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.
Based on available information, not classified as hazardous according to Safe Work Australia; NON-HAZARDOUS CHEMICAL.
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Precautionary statements**
P260 Do not breathe dust.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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3 Composition and Information on Ingredients

- **Chemical characterisation: Substances**
- **CAS No. Description**
7778-77-0 MKP
- **Identification number(s)**
- **EC number: 231-913-4**

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.
- **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 under running water for at least 15 minutes. Get medical attention if irritation persists.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Seek medical treatment.
- **Information for doctor:**
Check for hyperkalemia and treat ECG changes aggressively (ie Kayexelate)
Treat supportive and symptomatically
- **Most important symptoms and effects, both acute and delayed**
Nausea
Diarrhea
Vomiting
- **Hazards** Contain Potassium and phosphates
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Use fire extinguishing methods suitable to surrounding conditions. Water spray jet, foam. Dry fire-extinguishing substance.
- **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Metal oxide fumes
Phosphorus oxides (PxOy)
- **Advice for firefighters** Material not combustible
- **Protective equipment:** Use breathing apparatus with independent air supply (Isolated)

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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 (up-wind) and keep out of low areas. Evacuate personnel to safe area.
- **Environmental precautions:**
Contain material
Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers. If large spills, advise emergency services.
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:**
Uncontaminated spilled material may be reused
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.
- **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**
Avoid contact with eyes and skin.
Avoid breathing dust
No special measures required.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities** Observe rules for storing chemicals
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Observe the rules usually applicable when handling chemicals.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **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**
No value assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for particulates:
Dusts not otherwise classified: 8hr TWA = 10 mg/m³
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.

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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** *Keep away from foodstuffs, beverages and feed.*
- **Respiratory protection:**
In case of dust formation, wear micro dust mask. Use respiratory equipment with suitable filter or wear a self contained respiratory apparatus.
- **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:	Crystalline powder
Colour:	White
Odour:	Odourless
Odour threshold:	Not determined.
- **pH-value:** 4.5
- **Change in condition**

Melting point/freezing point:	253 °C
Initial boiling point and boiling range:	400 °C
- **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:	<i>Not determined.</i>
Upper:	<i>Not determined.</i>

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· Vapour pressure:	Not applicable.
· Density at 20 °C:	2.34 g/cm ³
· Bulk density:	800-1,200 kg/m ³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water at 25 °C:	250 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**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Avoid dust formation
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
Phosphorus oxides (e.g. P₂O₅)
Potassium oxide fumes

11 Toxicological Information

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

· LD/LC50 values relevant for classification:
Oral LD50 >4,640 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Slightly irritating
- **Serious eye damage/irritation** Slightly irritating
- **on the respiratory system:** Breathing in dust may result in respiratory irritation.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Subacute to chronic toxicity:**
Chronic effects: May sequester calcium and cause calcium phosphate deposits in the kidneys.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
The substance is not subject to classification according to the latest version of the EU lists.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.

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- **Reproductive toxicity** Based on available data, the classification criteria are not met.

12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** Avoid contaminating waterways as nutrients in water sources may cause excessive algal growth.
- **Persistence and degradability**
This product is a fertiliser and will react in the soil as such.
The substance is inorganic; therefore no biodegradation tests are applicable
- **Behaviour in environmental systems:**
Due to the non-toxic classification of this product no negative impact on wildlife is expected.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** Soluble in water
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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**
This product is used as fertiliser. However, large spills can kill vegetation. Prevent large quantities from entering waterways. If uncontaminated, sweep up or collect, and reuse as product. If contaminated with other materials, collect in suitable containers.
On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.
Disposal must be made according to official 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

- | | |
|--|------|
| <ul style="list-style-type: none"> · UN-Number · ADG, ADN, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · UN proper shipping name · ADG, ADN, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · Transport hazard class(es) · ADG, ADN, IMDG, IATA · Class | Void |

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· Packing group · ADG, IMDG, IATA	Void
· Environmental hazards:	Not applicable.
· Special precautions for user · ERG No.	Not applicable. None
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· UN "Model Regulation":	Void

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

EINECS: European Inventory of Existing Commercial Chemical Substances

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

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