

Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: MKP 0-52-34

Other name(s): MKP; Monopotassium Phosphate; Potassium Dihydrogen Phosphate; Potassium Acid Phosphate; Monobasic Potassium Phosphate; Potassium Dihydrogen Orthophosphate

Recommended Use: Water soluble fertiliser.

Supplier: Shifang Anda Chemicals Co., Ltd

ABN: -

Street Address: Nongke Village, Nanquan Town
Shifang City, Sichuan Province
China

Telephone Number: 0086-838-8462887

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2. HAZARDS IDENTIFICATION

Based on available information, not classified as hazardous according to criteria of NOHSC; NON-HAZARDOUS SUBSTANCE.

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.

Poisons None allocated.

Schedule:

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Description: White crystalline powder, odourless.

Components / CAS Number	Proportion	Risk Phrases
Potassium dihydrogen phosphate 7778-77-0	approx. 100%	-

4. FIRST AID MEASURES

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Inhalation:	Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.
Skin Contact:	If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.
Eye Contact:	If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.
Ingestion:	Rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs give further water. Seek medical advice.
Medical attention and special treatment:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazards from combustion products:	Non-combustible material.
Precautions for fire fighters and special protective equipment:	Non-combustible material. Decomposes on heating emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.
Suitable Extinguishing Media:	Extinguishing media appropriate to surrounding fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:	If contamination of sewers or waterways has occurred advise local emergency services.
Methods and materials for containment and clean up:	Wear protective equipment to prevent skin and eye contact. Avoid breathing in dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers, bags or drums for disposal or re-use.

7. HANDLING AND STORAGE

Conditions for safe storage:	Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. High stacking should be avoided as
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pressure tends to promote caking. Store away from farm chemicals eg. insecticides, fungicides and herbicides.

Precautions for safe handling: Avoid skin and eye contact and breathing in dust.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

No value assigned for this specific material by the National Occupational Health and Safety Commission. However, Exposure Standard(s) for constituent(s):

Nuisance dust: 8hr TWA = 10 mg/m³

As published by the National Occupational Health and Safety Commission.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering controls:

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Keep containers closed when not in use.

Personal Protective Equipment:

The selection of PPE is dependant on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Orica Personal Protection Guide No. 1, 1998: E - OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, DUST MASK.

Wear overalls, safety glasses and impervious gloves. Avoid generating and inhaling dusts. If dust exists, wear dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state:	Crystalline Powder
Colour:	White
Odour:	Odourless
Molecular Formula:	KH ₂ PO ₄
Solubility:	Soluble in water.
Specific Gravity:	2.34 (Bulk Density of 1000 - 1100 kg/cu m)
Relative Vapour Density (air=1):	Not applicable
Vapour Pressure (20 °C):	Not applicable
Flash Point (°C):	Not applicable
Solubility in water (g/L):	230g/L at 20°C
Melting Point/Range (°C):	Not available
Boiling Point/Range (°C):	Not available
Decomposition Point (°C):	Not available
pH:	4.5 - 5.5 (10% aq. solution)

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions.
Conditions to avoid:	Avoid exposure to heat. Avoid dust generation.
Incompatible materials:	Incompatible with oxidising agents.
Hazardous decomposition products:	Oxides of phosphorus. Oxides of potassium.
Hazardous reactions:	Hygroscopic. Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:	No adverse effects expected, however large amounts may cause nausea and vomiting.
Eye contact:	May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.
Skin contact:	Repeated or prolonged skin contact may lead to irritation.
Inhalation:	Breathing in dust may result in respiratory irritation.

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Long Term Effects:

No information available for the product.

Toxicological Data:

Oral LD50 (rat): >4640 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Disposal methods: Refer to Waste Management Authority.

14. TRANSPORT INFORMATION

Road and Rail Transport

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.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

15. REGULATORY INFORMATION

Classification: Based on available information, not classified as hazardous according to criteria of NOHSC; NON-HAZARDOUS SUBSTANCE.

Poisons Schedule: None allocated.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

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16. OTHER INFORMATION

'Registry of Toxic Effects of Chemical Substances'. Ed. D. Sweet, US Dept. of Health & Human Services: Cincinnati, 2004.

Material Safety Data Sheet - Orica Australia Pty Ltd; 11/ 1999.

Supplier Material Safety Data Sheet; 02/ 1997.

Incitec Pivot Limited Contact Point
MSDS - (03) 8695 4400

Reason(s) for Issue:

Revised Primary MSDS

Addition/Change of synonymous name(s)

Alignment to NOHSC requirements

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Incitec Pivot Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Incitec Pivot representative or Incitec Pivot Limited at the contact details on page 1.

Incitec Pivot Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

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