

Material Safety Data Sheet

MONOPOTASSIUM PHOSPHATE (MKP)

Section 1 – Product and Company Identification

Product Name: Monopotassium Phosphate

Trade Names: N/A

Synonyms: MKP; potassium phosphate, monobasic; monopotassium monophosphate

MSDS Creation Date: July 2000

MSDS Current revision date: None

Distributed by: AG Specialties LLC; 12220 SW Grant Ave; Tigard, OR 97223; 877-601-7670

EMERGENCY: CHEMTREC (24 Hour Emergency Response) 1-800-424-9300

Section 2 – Composition / Information on Ingredients

Ingredient Name CAS Number

Monopotassium Phosphate 7778-77-0

Section 3 – Hazards Identification

Emergency overview: Product is not considered hazardous by known governmental definitions.

However, continuous contact may cause skin irritation.

NFPA Rating: Health=0, Fire=0, Reactivity=0

Potential Health Effects:

Minimally to moderately irritating to unwashed eyes and minimally to mildly irritating to washed eyes in rabbits. Skin irritation from continuous contact has been reported during manufacturing when protective measures for contact or personal hygiene procedures are not followed. Human industrial experience has shown no significant inhalation hazard or skin irritation when exposures are properly controlled. Exposure monitoring indicates that the amount of respirable dust in the product is low. There have been no medical conditions reported as being aggravated by exposure.

CARCINOGEN STATUS: OSHA: Not listed NTP: Not listed IARC: Not listed

Section 4 – First aid Measures

Inhalation: Remove from exposure

Skin Contact: Wash with water.

Eye Contact: Flush eyes immediately with large amounts of water. If irritation occurs or persists, obtain medical attention.

Ingestion: Rinse mouth and dilute stomach contents with water, or preferably with milk if available.

Notes to Physician: Large doses may cause nausea, vomiting and diarrhea. Systemic oral toxicity is extremely rare and has consisted of acidosis and hypocalcemic tetany.

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Section 5 – Fire-Fighting Measures

Flash Point: None

Auto Ignition Temperature: Not Determined

Fire and Explosion Hazard: *Product is not combustible / None.*

Extinguishing Media: Any as determined by fire fighting agency

Firefighting: No special fire fighting procedures.

Section 6 – Accidental Release Measures

In Case of Spill: Material should be swept up for salvage or disposal in accordance with established guidelines.

Section 7 – Handling and Storage

Storage: This product should be stored in a clean dry area to maintain product quality and to prevent possible contamination by other chemicals.

Normal Handling: Animal studies and manufacturing experience indicate that exposure to the product may result in eye and skin irritation under normal conditions of use. In the event of contact, immediately flush eyes with water, wash off skin.

Ventilation: Control measures such as local exhaust ventilation may be required where excessive airborne dust loading may be present.

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Section 8 – Exposure Controls / Personal Protection**Exposure Limits****Ingredient OSHA PEL ACGIH TLV OTHER VALUES**

No ingredients -----

* = ACGIH Biological Exposure Value ** = AIHA Workplace Environmental Exposure Level

Ventilation: Use of local exhaust is recommended at product transfer points and where dusty conditions exist.*Eye Protection:* Wear safety glasses. Wear chemical goggles when airborne dust is expected.*Clothing:* Wear trousers and long sleeved shirt to reduce skin contact with this product.*Gloves:* Wear cotton or canvas protective gloves to prevent continuous contact with this product.*Respirator:* Use approved dust respiratory protection if release of the product into the work area is expected.*Control Measures:* Prevention of eye and skin contact may be required under normal use conditions. However, severe agitation or dispersion into the work environment may require enclosure of the process and local exhaust ventilation at the source to prevent release into air. If work environment controls are not implemented, then personal protection for inhalation, skin and eye may be required.**Section 9 – Physical and Chemical Properties***Description:* White, free-flowing powder*Specific gravity (H₂O=1):* Bulk density 1.2 G/ML*ph:* 4.6 @ 1% solution*Melting Point:* -H₂O, 253C*Boiling Point:* Not applicable*Vapor Pressure:* Not applicable*Water Solubility:* 20% @ 25C

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Section 10 – Stability and Reactivity*Reactivity:* Stable<http://home1.gte.net/agchem5/msdsmkp.htm>

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Conditions to Avoid: None

Incompatibilities: None

Hazardous Decomposition: None

Polymerization: Will not occur

Section 11 – Toxicological Information

Eyes: Non-irritating to unwashed eyes, non-irritating to washed eyes (rabbit)

Inhalation: No published data

Ingestion: No published data

Delayed / Chronic:

Human industrial experience has shown no significant inhalation hazard nor skin irritation for low level long term exposure.

(effects considered include: sensitivities, carcinogenicity, teratogenicity, mutagenicity, synergistic products, and any medical conditions generally recognized as being aggravated by exposure.

Acute Overexposure: Moderate irritant to unwashed eyes and mild irritant to washed eyes by animal tests.

Section 12 – Ecological Information

Acute Aquatic Toxicity:

96 HR LC50 > 100 MG/L, non-toxic (rainbow trout, inland silversides and mysid shrimp)

Environmental fate: Inorganic phosphates in contact with the soil, sub-surface or surface waters may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually with calcium or magnesium. The resultant compounds are insoluble in water and become a part of the soil or sediment. The term biodegradability, as such, is not applicable to inorganic compounds.

Section 13 – Disposal Considerations

Waste disposal method: This product does not present a danger or hazard for disposal. Except for food applications, salvage and return to container, process or recycle for other uses. May be disposed of in landfills according to applicable regulations.

Section 14 – Transport Information

US DOT Shipping name: Fertilizers N.O.I., NMFC 68140

US DOT Hazard Class: Not hazardous

US DOT Identification Number: None

US DOT Packing Group: N/A

US DOT Label Code: None

Reportable Quantity: N/A

Section 15 – Regulatory Information

TSCA Status: All ingredients are listed on the TSCA Inventory of Chemical Substances.

Other TSCA Issues: None

SARA 311 Classifications: None

SARA 313 Notification: There are no ingredients on the SARA 313 reporting list.

CERCLA RQ's and TPQ's: None

California Proposition 65: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Canadian Inventory: Not listed

WHMIS: Not hazardous

Section 16 – Other Information

NFPA Ratings: Health: 0, Flammability: 0, Reactivity: 0

Label Hazard Warning: None

Label Precautions: None

Label First Aid: None

Product Use: Specialty fertilizer, meat treating compounds, nutrient for antibiotic and yeast production etc.

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