

# Material Safety Data Sheet

## AG Specialties Brand Mono Potassium Phosphate

### Section 1 – Product and Company Identification

Product Name: Mono Potassium Phosphate  
Trade Names: AG SPECIALTIES BRAND MONO POTASSIUM PHOSPHATE  
Synonyms: MKP, Potassium Phosphate Monohydrate  
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	%wt
Mono Potassium Phosphate	7778-77-1	100

### Section 3 – Hazards Identification

**Emergency overview:** Product dusts may irritate respiratory tract.

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

**Potential Health Effects:**

*Inhalation:* Dusty conditions may cause mechanical aggravation to mucous membranes.

*Skin Contact:* Not normally absorbed through the skin.

*Eye Contact:* Dust from this product may cause particulate discomfort to the eyes.

*Ingestion:* Minimal hazard under normal conditions and use. Ingestion of large quantities may cause gastrointestinal discomfort, vomiting, weakness or other medically related problems.

*Long-Term and/or delayed effects:* Ingestion of large doses may cause diarrhea, nausea, or abdominal cramps.

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

### Section 4 – First aid Measures

*Inhalation:* Remove from exposure area to fresh air immediately. If breathing is difficult, oxygen may be administered by a qualified operator. Keep person warm and at rest. Get medical attention for irritation or any other symptom.

*Skin Contact:* Wash affected area with soap or mild detergent and rinse with water until no evidence of product remains. Get medical assistance for irritation, or any other symptom.

*Eye Contact:* Flush eyes immediately with large amounts of water or normal saline solution, occasionally lifting upper and lower lids until no evidence of product remains (approximately 15-20 minutes).

*Ingestion:* In patients not in shock or coma, and if a large amount is ingested, give 2-3 glasses of water and induce vomiting. Never give anything by mouth to an unconscious person. Maintain airway, blood pressure, and respiration.

**NOTE TO PHYSICIAN:** Systemic oral toxicity is very rare and has consisted of acidosis and hypocalcemic tetany.

## Section 5 – Fire-Fighting Measures

**Flash Point:** None

**Auto Ignition Temperature:** Not Determined

**Fire and Explosion Hazard:** N/A

**Extinguishing Media:** Use any standard agent suitable for surrounding structural fire or for other chemicals that may be involved.

**Firefighting:** Wear appropriate self-contained positive pressure breathing apparatus. Dike area to prevent runoff and contamination of water sources.

**Hazardous Combustion Products:** During extremely high temperatures/ fire conditions, the product may reach a point when decomposition releases NH<sub>3</sub>, SO<sub>x</sub>, PO<sub>x</sub>, or CN.

## Section 6 – Accidental Release Measures

**In Case of Spill:** Pick up dry spills by scooping, shoveling or vacuuming and place into containers for reuse or disposal. Wear respirator, protective clothing and gloves. Keep unnecessary people away. Keep out of waterways, this product is a fertilizer and may promote algae growth. Obey all federal, state, and local regulations when storing or disposing of product.

## Section 7 – Handling and Storage

**Storage:** Store in a cool, dry place. Avoid spillage and separate from strong oxidizers. Use normal safety procedures and good personal hygiene. Keep out of reach of children.

**Normal Handling:** Avoid contact with skin and eyes. Avoid dispersion of dust into air.

## Section 8 – Exposure Controls / Personal Protection

### Exposure Limits

**Ingredient**

**OSHA PEL**

**ACGIH TLV**

**OTHER VALUES**

No ingredients

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\*= 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. Use of splash shields or safety goggles is recommended for very dusty conditions.

**Clothing:** Wear trousers and long sleeved shirt to avoid skin contact with this product. Clean work clothing before taking them home (preferred) or launder separately from household laundry.

**Gloves:** Wear cotton or canvas protective gloves to prevent contact with this product.

**Respirator:** For normal product handling, use an NIOSH approved air-purifying dust respirator. For extremely dusty conditions, the use of a full-face air purifying particulate respirator is recommended.

**EMERGENCY WASH FACILITIES:** Where there is the potential that an employee's eyes and/or skin may be exposed to this product, the employer should provide an eye wash fountain and safety shower or another source of running water within the immediate work area.

## Section 9 – Physical and Chemical Properties

**Description:** White/Translucent crystals or powder

**Molecular Formula:** (Mono Ammonium Phosphate)

**Molecular Weight:** Unknown

**ph:** 4.6

**Melting Point:** 253 degrees C

**Boiling Point:** Not applicable

**Vapor Pressure:** Not available

**Water Solubility:** 20g/100gm pure water.

**Solvent Solubility:** Not available

**Specific Gravity:** Unknown

## Section 10 – Stability and Reactivity

*Reactivity:* Stable under normal temperatures and pressures.

*Conditions to Avoid:* Extremely high temperatures.

*Incompatibilities:* None

*Hazardous Decomposition:* During extremely high temperatures the product may decompose and release NH<sub>3</sub>, SO<sub>x</sub>, PO<sub>x</sub>, or CN.

*Polymerization:* Will not occur

## Section 11 – Toxicological Information

### *Acute Toxicity:*

LD50 Oral: >2000 mg/kg, rat

LD50 Dermal: >5000mg/kg, rat

Local Effects: Irritating to eyes, ingestion, skin irritant, mucous membranes.

Eyes: dose-500mg, mild (rabbit)

Inhalation: Inhalation of dust may cause irritation of the respiratory tract with sore throat.

Ingestion: In patients not in shock or coma, and if a large amount is ingested, give 2-3 glasses of water and induce vomiting.

Never give anything by mouth to an unconscious person. Maintain airway, blood pressure, and respiration.

### *Delayed / Chronic:*

CARCINOGEN STATUS: This product does not contain any substance(s) that are considered by OSHA, NTP, IARC or ACGIH to be “probable” or “possible” carcinogens.

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

## Section 12 – Ecological Information

*Acute Aquatic Toxicity:* fish: 96-hour LC50 > 85.9mg/L (ppm); low acute toxicity

*Degradability:* No data available

*Log Bioconcentration Factor (BCF):* No data available

*Log Octanol/Water partition coefficient:* No data available

## Section 13 – Disposal Considerations

Sweep up and repackage or place in a receptacle for future disposal or use in accordance with any and all federal, state, or local regulations.

## Section 14 – Transport Information

This product is not regulated in surface transportation.

*US DOT Shipping name:* Fertilizers, N.O.I., NMFC 58140 / class 50

*US DOT Hazard Class:* Not applicable

*US DOT Identification Number:* Not applicable

*US DOT Packing Group:* Not applicable

*US DOT Label Code:* Not applicable

*Reportable Quantity:* Not applicable

## Section 15 – Regulatory Information

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

**Other TSCA Issues:** None

**SARA 311 Classification:** Not Listed.

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

**CERCLA RQ's and TPQ's:** Mono Potassium Phosphate does not have a reportable quantity.

**California Proposition 65:** No data available

**Canadian Inventory:** All ingredients are listed on the Canadian Domestic Substances List.

**WHMIS:** not data available

## Section 16 – Other Information

**NFPA Ratings:** Health: 1, Flammability: 0, Reactivity: 0

**Label Hazard Warning:** MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

**Label Precautions:**

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Avoid breathing dust.

Use with adequate ventilation.

**Label First Aid:** If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. In case of contact, wipe off excess material from skin then immediately flush eyes or skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. Customers are responsible for compliance with local, state and federal regulations that may be pertinent in the storage, application and disposal of this product.

**Product Use:** Fertilizer and animal feed ingredient additive.

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