



## Safety Data Sheet Chemurgic's MKP

### 1. Identification

#### 1.1 Product identifier

**Product Identity** Chemurgic's MKP  
**Alternate Names** Monopotassium phosphate, MKP  
**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Intended use** Water soluble fertilizer.  
**Application Method** See Technical Data Sheet.

#### 1.3 Details of the supplier of the safety data sheet

**Company Name** Chemurgic Agricultural Chemicals, Inc.  
P.O. Box 2106  
Turlock, CA 95381

#### EMERGENCY PHONE NUMBERS:

**Company Phone Number** DAYS: (209) 634-2951  
EVES: (209) 652-7260

#### 24-Hour Emergency

**Telephone Number** INFOTRAC: 1-800-535-5053  
EPA National Response Center: (800) 424-8802

### 2. Hazard(s) identification

#### 2.1 Classification of the substance or mixture

##### Classification (GHS-US)

Not classified.

#### 2.2 Label elements

##### GHS-US labeling

No labeling applicable.

#### 2.3 Other hazards

No additional information available.

#### 2.4 Unknown acute toxicity (GHS US)

Not applicable.

### 3. Composition/information on ingredients

#### 3.1 Substance

Chemical Name	CAS Number	Weight %	Classification (GHS-US)
Monopotassium Phosphate	7778-77-0	100	Not classified

#### 3.2 Mixture

Not applicable.

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### 4. First aid measures

#### 4.1. Description of first aid measures

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention.
<b>Eyes</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. If skin irritation occurs, get medical advice/attention.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Call a physician or Poison Control Center immediately.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>Overview</b>	Inhalation: After inhalation of dust: slight irritation. Skin contact: No data available. Eye contact: Slight irritation. Ingestion: No specific information. Similar products cause the following symptoms: After absorption of high quantities: Feeling of weakness, vomiting, nausea, abdominal pain, diarrhea, heart rate disturbances, and sensorial disturbances.
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#### 4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

### 5. Fire-fighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media:

Adapt extinguishing media to the environment. Water spray. Dry powder. Foam.

##### Unsuitable extinguishing media:

None known.

#### 5.2 Special hazards arising from the substance or mixture

##### Fire Hazard:

Direct Fire Hazard: Non-combustible. Indirect Fire Hazard: Reactions involving a fire hazard: see "Reactivity Hazard".

##### Explosion Hazard:

No direct explosion hazard.

##### Reactivity:

Decomposes on exposure to temperature rise: release of toxic/corrosive/combustible gases/vapours (phosphine).  
On burning: release of toxic and corrosive gases/vapours (phosphorus oxides). Reacts violently with (strong) acids/bases.

#### 5.3 Advice for fire-fighters

##### Precautionary measures:

Exposure to fire/heat: Keep upwind. Consider evacuation. Have neighborhood close doors and windows.

##### Firefighting instructions:

Cool tanks/drums with water spray and remove them into safety. Do not move the load if exposed to heat. Dilute

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toxic gases with water spray.

### Protection during firefighting:

Wear self-contained breathing apparatus and full protective clothing.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Keep unprotected and unnecessary personnel out of spill area. Use personal protective equipment. Ventilate spillage area. Avoid dust formation. In case of dust production keep upwind and have neighborhood close doors and windows. For personal protection, see section 8 of the SDS.

### 6.2. Environmental precautions

Avoid release to the environment. Do not let product enter drains.

### 6.3. Methods and material for containment and cleaning up

Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Scoop solid spill into suitable, closed containers. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Ensure good ventilation of the work station. Avoid raising dust. Keep away from naked flames/heat. Wear personal protective equipment (see section 8 of the SDS). Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Observe good industrial hygiene practices.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in original container only. Keep container tightly closed. Store in a dry and well-ventilated place at room temperature. Do not store near heat or open flame. Do not store with oxidizing agents.

## 8. Exposure controls and personal protection

### 8.1. Control parameters

**Occupational exposure limits:** No exposure limits noted for ingredient(s).

### Individual protection measures, such as personal protective equipment

Hand protection: Chemical resistant gloves

Eye protection: Safety glasses with side shields or goggles

Skin protection: Hand Protection: Chemical resistant gloves  
Other: Wear suitable protective clothing.

Respiratory protection: Dust production: Dust mask with filter type P1

Hygiene measures: Observe good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 8.2. Appropriate engineering control

Ensure good ventilation of the work station.

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### 9. Physical and chemical properties

<b>Physical state</b>	Solid
<b>Appearance</b>	Crystalline solid. Crystalline powder. Grains.
<b>Color</b>	Colorless or white
<b>Odor</b>	Odorless
<b>Odor threshold</b>	No data available
<b>pH</b>	4.5 (1%)
<b>Melting point</b>	253° C
<b>Freezing point</b>	Not applicable
<b>Initial boiling point and boiling range</b>	Not applicable
<b>Flash point</b>	Not applicable
<b>Evaporation rate (Butyl Acetate = 1)</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability or explosive limits</b>	Lower Explosive Limit: Not applicable Upper Explosive Limit: Not applicable
<b>Vapor pressure (Pa)</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density</b>	Not applicable
<b>Specific gravity</b>	2338 kg/m <sup>3</sup>
<b>Molecular mass</b>	136.09 g/mol
<b>Solubility in water</b>	Soluble. Water: 22 g/100 ml
<b>Partition coefficient n-octanol/water (Log Kow)</b>	No data available
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	400° C
<b>Viscosity</b>	No data available
<b>9.2 Other information</b>	
<b>Minimum ignition energy</b>	Not applicable
<b>VOC content</b>	Not applicable
<b>Other properties</b>	Hygroscopic. Substance has acid reaction.

### 10. Stability and reactivity

- 10.1. Reactivity:** Decomposes on exposure to temperature rise: release of toxic/corrosive/combustible gases/vapours (phosphine). On burning: release of toxic and corrosive gases/vapours (phosphorus oxides). Reacts violently with (strong) acids/bases.
- 10.2. Chemical stability:** Hygroscopic.
- 10.3. Possibility of hazardous reactions:** No dangerous reactions known under normal conditions of use.
- 10.4. Conditions to avoid:** None known.
- 10.5. Incompatible materials:** No additional information available.
- 10.6. Hazardous decomposition products:** No additional information available.

### 11. Toxicological information

**Likely routes of exposure:** Skin and eyes contact.

**Acute toxicity:** Not classified

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LD50 oral rat	7100 mg/kg (Rat)
LD50 dermal rabbit	>4640 mg/kg (Rabbit)
ATE US (oral)	7100.000 mg/kg body weight

**Skin Corrosion/Irritation:** Not classified. pH: 4.5 (1%)

**Serious Eye Damage/Irritation:** Not classified. pH 4.5 (1%)

**Respiratory or Skin Sensitization:** Not classified.

**Germ cell mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**Reproductive toxicity:** Not classified.

**Specific target organ toxicity (single and repeated exposure):** Not classified.

**Aspiration hazard:** Not classified.

**Symptoms/injuries after inhalation:** After inhalation of dust: Slight irritation.

**Symptoms/injuries after skin contact:** No data available.

**Symptoms/injuries after eye contact:** Slight irritation.

**Symptoms/injuries after ingestion:** No specific information available. Similar products cause the following symptoms: After absorption of high quantities: Feeling of weakness, vomiting, nausea, abdominal pain, diarrhea, heart rate disturbances and sensorial disturbances.

## 12. Ecological information

**12.1. Ecotoxicity:** This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**12.2. Persistence and degradability:** No data available.

**12.3. Bioaccumulative potential:** No data available.

**12.4. Mobility in soil:** No data available.

**12.5. Other adverse effects:** No data available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

Remove waste in accordance with local and/or national regulations. Precipitate/make insoluble. Remove to an authorized dump. Do not discharge into surface water. Prevent liquid from entering sewers, watercourses, underground or low areas.

## 14. Transport information

**DOT:** Not regulated as dangerous goods.

**IATA:** Not regulated as dangerous goods.

**IMDG:** Not regulated as dangerous goods.

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### 15. Regulatory information

#### 15.1 US Federal regulations

No additional information available.

#### 15.2 International regulations

CANADA: No additional information available.

EU-Regulations: No additional information available.

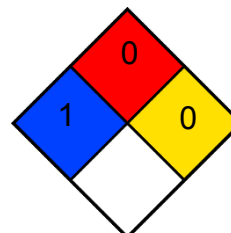
National regulations: No additional information available.

#### 15.3 US State regulations

No additional information available.

### 16. Other information

NFPA health hazard	1	Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	0	Materials that will not burn.
NFPA reactivity	0	Normally stable, even under fire exposure conditions, and are not reactive with water.



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**This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

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