

## 1. Identification

<b>1.1 Product identifier</b>	Chemurgic's Hi-K
<b>1.2 Synonym(s)</b>	None
<b>1.3 Relevant identified uses of the substance or mixture and uses advised against</b>	
<b>Intended use</b>	Agriculture/Horticulture Use – Macronutrient Fertilizer
	Refer to product label.
<b>Application Method</b>	Refer to product label.
<b>Restrictions on use</b>	Refer to product label.
<b>1.4 Details of the supplier of the safety data sheet</b>	
<b>Company Name</b>	Chemurgic Agricultural Chemicals, Inc. P.O. Box 2106 Turlock, CA 95381
<b>Company Phone Numbers</b>	DAYS: (209) 634-2951; EVES: (209) 652-7260
<b>EMERGENCY PHONE NUMBERS:</b>	
<b>24-Hour Emergency</b>	INFOTRAC: 1-800-535-5053
<b>Telephone Number</b>	EPA National Response Center: (800) 424-8802

## 2. Hazard(s) identification

### 2.1 Classification of the substance or mixture

<b>Physical Hazards</b>	Not classified.	
<b>Health Hazards</b>	Eye damage/irritation:	Category 2A
	Acute Toxicity – Oral:	Category 4
<b>Environmental Hazards</b>	Not classified	
<b>OSHA defined hazards</b>	Not classified.	

### 2.2 GHS Label elements

**Hazard symbols:**



**Signal word:**

Warning

**Hazard statements:**

H319: Causes serious eye irritation.  
H302: Harmful if swallowed.

**Precautionary statements**

**Prevention:**

P264: Wash thoroughly after handling.  
P280: Wear eye protection.  
P270: Do not eat, drink or smoke when using this product.

**Response:**

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313: If eye irritation persists: Get medical advice/attention.  
P301+P312: IF SWALLOWED: Call a Poison Center/doctor if you feel unwell.  
P330: Rinse mouth.

**Disposal:** P501: Dispose of contents/container in accordance with local authority regulations.

**2.3 Hazard(s) not otherwise classified (HNOC)**  
None known.

## 3. Composition/information on ingredients

### Mixtures

Chemical Name	CAS Number	%
Potassium Nitrate	7757-79-1	5-10
Potassium Sulphate	7778-80-5	80
Urea	57-13-6	5-10

\*Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First aid measures

### 4.1. Description of first aid measures

**General** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation** 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.

**Eyes** 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.

**Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. If skin irritation occurs, get medical advice/attention.

**Ingestion** Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell. Get medical attention if symptoms occur.

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

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Severe eye irritation.

### 4.3 Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

## 5. Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media:

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

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

During fire, gases hazardous to health may be formed.

## 5.3 Advice for fire-fighters

### Firefighting instructions:

Use water spray to cool unopened containers.

### Protection during firefighting:

Wear self-contained breathing apparatus and full protective clothing in case of fire.

### Unusual Fire and Explosion Hazards:

None known.

## 6. Accidental release measures

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

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Advise local authorities if significant spillage cannot be contained. For personal protective equipment, see section 8 of the SDS.

### 6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

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

Stop the flow of material, if this is without risk. Dike the spilled material for later disposal. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Do not get this material in contact with eyes. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Do not eat, drink or smoke when using this product. Wash hands 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 away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### 8.1. Control parameters

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

**Biological limit values:** No biological exposure limits noted for the ingredient(s).

### 8.2. Appropriate engineering control

Use good general ventilation (typically 10 air changes per hour). Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

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

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin protection:

Hand protection: Wear appropriate chemical resistant gloves.

Other:	Wear suitable protective clothing.
Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection not required.
Thermal hazards:	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures:	Keep away from food and drink. Always observe good personal hygiene practices. Wash hands after handling the material and before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

## 9. Physical and chemical properties

<b>Appearance</b>	
Physical state	Solid
Form	Soluble Powder
Color	White
Odor	Odorless
Odor threshold	N/A
pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid)	Not available
Upper/lower flammability or explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility(ies)	Not available
Partition coefficient n-octanol/water	Not available
Autoignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

## 10. Stability and reactivity

- 10.1. Reactivity:** The product is stable and non-reactive under normal conditions of use, storage and transport.
- 10.2. Chemical stability:** Material is stable under normal conditions.
- 10.3. Possibility of hazardous reactions:** No dangerous reaction known under conditions of normal use.
- 10.4. Conditions to avoid:** Contact with incompatible materials.
- 10.5. Incompatible materials:** Strong oxidizing agents.
- 10.6. Hazardous decomposition products:** No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion:</b>	Harmful if swallowed.
<b>Inhalation:</b>	Prolonged inhalation may be harmful.
<b>Skin contact:</b>	No adverse effects due to skin contact are expected.
<b>Eye contact:</b>	Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Severe eye irritation.

### Information on toxicological effects

#### Acute Toxicity:

Harmful if swallowed.

Components	Species	Test Results
Potassium Nitrate (CAS 7757-79-1)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rabbit	1166 mg/kg
<b>Skin Corrosion/Irritation:</b>	Prolonged skin contact may cause temporary irritation.	
<b>Serious Eye Damage/Irritation:</b>	Causes serious eye irritation.	
<b>Respiratory Sensitization:</b>	No data available.	
<b>Skin Sensitization:</b>	This product is not expected to cause skin sensitization.	
<b>Germ cell mutagenicity:</b>	No data available.	
<b>Carcinogenicity:</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA	
<b>Reproductive toxicity:</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity (single exposure):</b>	Not classified.	
<b>Specific target organ toxicity (repeated exposure):</b>	Not classified.	
<b>Aspiration hazard:</b>	No data available.	
<b>Chronic effects:</b>	Prolonged inhalation may be harmful.	

## 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:** Data not available
- 12.3. Bio-accumulative potential:** Data not available
- 12.4. Mobility in soil:** Data not available
- 12.5. Other adverse effects:** No other adverse environmental effects are expected from this component.

## 13. Disposal considerations

### 13.1. Waste treatment methods

**Disposal instructions:** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national regulations.

**Waste from residues/unused products:** Dispose of in accordance with local regulations. Empty containers or liners



may retain some product residues. Dispose of this material and its container in a safe manner (see "Disposal instructions").

**Contaminated packaging:** Take empty container to an approved waste handling site for recycling or disposal. Follow all label warnings even after container is emptied since it may retain product residue.

## 14. Transport information

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

## 15. Regulatory information

### 15.1 US Federal Regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard Categories:

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous chemical: No

#### SARA 313 (TRI reporting)

Chemical name	CAS number
Potassium Nitrate	7757-79-1

### 15.2 Other Federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### 15.3 US State regulations

#### U.S. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.



## 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

**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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