



## MATERIAL SAFETY DATA SHEET

### K-CAL 0-0-22 Micro

#### SECTION 1. Chemical Product and Company Identification

Trade name: K-CAL 0-0-22 Micro  
Grade: Micro (SGN 100)  
CAS registry number: n/a  
Chemical name: n/a  
Synonym: n/a  
Product Use: Fertilizer

Manufacturer: Fertichem Inc.  
560 Rhéaume  
St-Michel (Québec)  
CANADA  
JoL 2Jo

Date of first issue: 11/3/2010  
Modification date: 11/3/2010  
MSDS prepared by: Genevieve S. Legault, M. Sc  
In case of emergency: CANUTEC : (613) 996-6666  
CHEMTREC: 1-800-424-9300

#### SECTION 2. Composition/Information on Ingredients

Hazardous Material:	CAS number	% by weight	OSHA Permissible Limit Exposure
No hazardous material			
Additional ingredients:	CAS number	Additional ingredients:	CAS number
Calcium carbonate	17069-72-6		
Potassium sulfate	7778-80-5		
Magnesium oxide, saccharated	1309-48-4, 57-50-1		

#### SECTION 3. Hazards Identification

Emergency overview: No significant immediate hazards for emergency responses are known.  
CAUTION: Contact with dust may cause discomfort and/or mild irritation to skin, eyes, nose and lungs. Avoid breathing dust.  
Do not ingest. May irritate mouth, stomach, etc.  
Wash thoroughly after handling.  
Physical state (25°C/77°F): Multicolor solid granules, no odor.

## SECTION 4. First Aid Measures

<b>Inhalation:</b>	Bring subject to a well ventilated area. Contact a physician if symptoms persist.
<b>Skin:</b>	Wash with plenty of water.
<b>Eyes:</b>	Flush eyes with large quantities of running water for a minimum of 15 minutes. Remove contact lenses. Rinse the entire surface of the eye and lid with water. Call a physician if eye irritation occurs.
<b>Ingestion:</b>	Harmful if swallowed. Seek medical care. Do not induce vomiting.

## SECTION 5. Fire Fighting Measures

<b>Flammability limits in</b>	<b>Air (%):</b> n/a	<b>UEL:</b> n/a	<b>LEL:</b> n/a
<b>Fire extinguishing media:</b>	Use media appropriate to surrounding fire.		
<b>Fire fighting procedures:</b>	Use a stream of water to cool containers and surfaces exposed to fire and to dissipate vapours. Use a self-contained respirator.		
<b>Other fire or Explosion Hazards:</b>	Toxic gases may be released at elevated temperature.		

## SECTION 6. Accidental Release Measures

<b>Small release:</b>	Stop leak or spill. Collect for re-use. Contain runoff by diking. Prevent spills from entering water courses, basement or closed area. Wear appropriate personal protective equipment for cleanup.
<b>Release to water:</b>	Reclaim as much product as possible to avoid further contamination.

## SECTION 7. Handling and Storage

<b>Handling:</b>	Wear suitable personal protective equipment. Avoid inhalation and prolonged or repeated contact with eyes and skin.
<b>Storage:</b>	Store in a dry, ventilated area, away from food and seed. Keep at ambient temperature. Keep out of reach of children.

## SECTION 8. Exposure Controls and Personal Protection

<b>Exposure limits:</b>	n/a
<b>Personal protection:</b>	Skin contact with the product should be prevented with the use of appropriate protective clothing and gloves (nitrile gloves are recommended). Wear safety glasses with side-shields to avoid eye contact.
<b>Respiratory:</b>	If dust is generated, use a NIOSH-approved respiratory mask.
<b>Ventilation:</b>	Provide good ventilation if dusty conditions prevails.

## SECTION 9. Physical and Chemical Properties

<b>Physical state:</b>	Solid
<b>Appearance</b>	Multicoloured granules
<b>Odour:</b>	No odor
<b>Melting point (°C/°F):</b>	n/a
<b>Bulk Density:</b>	65-70 lbs/ft <sup>3</sup>
<b>Solubility:</b>	Partially soluble in water
<b>pH:</b>	n/a

## SECTION 10. Stability and Reactivity

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<b>Under Normal Conditions:</b>	Stable
<b>Under Fire Conditions:</b>	Stable
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to Avoid:</b>	Extreme temperatures
<b>Materials to Avoid:</b>	Strong oxidizing agents, chlorates, hypochlorites
<b>Hazardous Decomposition or Combustion Products:</b>	Cyanuric acid, sulfur oxides, nitrogen oxides, carbon oxides

## SECTION 11. Toxicological information

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<b>Recommended Exposure Limit:</b>	None recommended for this product
<b>Toxicological Data:</b>	None known
<b>Carcinogenicity Data:</b>	Ingredients of this products are not listed as carcinogens by OSHA or NTP and are not rated by IARC or ACGIH.
<b>Reproductive Effects:</b>	No data available
<b>Mutagenicity Data:</b>	No data available
<b>Teratogenicity Data:</b>	No data available
<b>Synergistic Materials:</b>	None known
<b>Effects of exposure when</b>	
<b>Inhaled:</b>	Dust is irritating to nose, throat and respiratory tract. May cause coughing or sneezing.
<b>In contact with the skin:</b>	Prolonged and repeated contact may cause mild irritation.
<b>In contact with the eyes:</b>	Dust may cause mild irritation and due to abrasiveness may cause eye damage if untreated.
<b>Ingested:</b>	Ingestion may cause gastrointestinal upset, abdominal pain and diarrhea.
<b>Other health effects:</b>	High concentration of urea in the blood increases the risk of glaucoma.

## SECTION 12. Ecological information

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May be harmful to aquatic life. In sufficient quantity may deplete oxygen required by aquatic life. May cause eutrophication of ponds and lakes.

<b>Deactivating chemical:</b>	None required
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## SECTION 13. Disposal considerations

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Suitable for use as agricultural/horticultural fertilizer. Consult local authorities. **Do not dispose of waste with normal garbage or into water systems.**

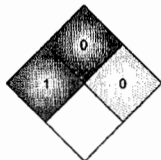
## SECTION 14. Transport Information

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<b>DOT/TDG Classification</b>	Not controlled under DOT (USA) or TDG (Canada).
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## SECTION 15. Regulatory Information

### NFPA Classification



Health hazard: 1 (Slightly hazardous)  
Fire hazard: 0 (Will not burn)  
Instability hazard: 0 (Stable)  
Specific hazard: None

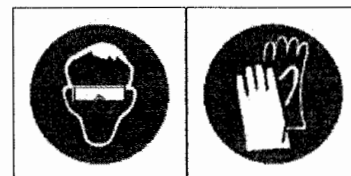
### DOT/TDG Pictogram

Not regulated

### WHMIS Classification

Not regulated

### Protective clothing



## SECTION 16. Other Informations

### References :

Commission de la santé et de la sécurité au travail, <http://www.reptox.csst.qc.ca>  
United States Department of labor, Occupational Safety and Health Administration, <http://www.osha.gov/>  
Report on Carcinogens, Eleventh Edition; U.S. Department of Health and Human Services, Public Health Service, National Toxicology Program. <http://ntp.niehs.nih.gov/index.cfm?objectid=32BA9724-F1F6-975E-7ECE50709CB4C932>  
List IARC Carcinogenic Agents 2010, International Agency for Research on Cancer, <http://monographs.iarc.fr/ENG/Classification/Listagentsalphorder.pdf>  
Material Safety Data Sheet from suppliers

### Definitions of abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Service
DOT	Department of Transportation
IARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit for Flammable Gases and Vapor
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
TDG	Transport of Dangerous Goods
UEL	Upper Explosive Limit for Flammable Gases and Vapor
WHMIS	Workplace Hazardous Materials Information System

### NOTICE:

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