



Material Safety Data Sheet

0-0-0 with 6% Ca

(last update: June 16, 2014)

Section 1. Product and company identification

Product name: 0-0-0 with 6% Ca
Synonyms: Póma
Manufacturer: Agro 100 Ltée.
 1090, rang Sud
 St-Thomas Co. Joliette, Quebec, Canada
 J0K 3L0
Emergency: (450) 759-8887

Registration number (Law on chemical fertilizers) : **not required.**

Section 2. Composition, information on ingredients

Concentrated liquid fertilizer, clear, yellowish. The product has an acetic acid odor.

<i>Ingredients</i>	<i>% (w/w)</i>	<i>No CAS</i>	<i>Occupational exposure limits</i>				
			<i>ACGIH</i>		<i>OSHA</i>		
			<i>TWA</i>	<i>STEL</i>	<i>PEL</i>	<i>STEL</i>	<i>IDLH</i>
Calcium acetate	23.7	62-54-4	10 mg/m ³	NE	5 mg/m ³	NE	NE
Other non hazardous ingredients	27.7	NA	NE	NE	NE	NE	NE
Water	Balance	7732-18-5	NE	NE	NE	NE	NE

NE = Not established, NA = Not available

Section 3. Hazards information

*(Read the entire MSDS for complete risk evaluation of the product.)
(0=null 1=low 2=moderate 3=high 4=severe nc=not calculated)*

HEALTH = 1

FIRE = 0

REACTIVITY = 0

May cause eye, skin, and digestive and respiratory systems irritation. Avoid contact with eyes, skin and clothes. Wash with soapy water after manipulating the product. Do not breathe vapors. Keep out of reach of children.

Eye contact: Can cause irritation.

Skin absorption: No risk known to **Agro 100 Ltée.**

Ingestion: Can be harmful in case of ingestion. Can cause irritation; symptoms include nausea, vomiting, pain and gastro-intestinal discomfort.

Inhalation: Can be irritating to the respiratory tract.

Skin contact: Can cause irritation and aggravate a pre-existing condition.

Section 4. First aid measures

Inhalation: Move to fresh air. If the victim has breathing difficulties, give oxygen. In case of stopped breathing, give artificial respiration (use a mask if the victim has inhaled or ingested product). Get medical attention if symptoms occur.

Skin contact: Wash immediately and abundantly with water for 15 to 20 minutes. Remove contaminated clothes. Get medical attention if symptoms occur.

Eye contact: Rinse with clear water for 15 to 20 minutes, holding eyelids open. Take off contact lenses. Get medical attention in case of irritation.

Ingestion: If conscious, have the victim drink plenty of water. Never give anything to an unconscious person. Do not induce vomiting unless told to do so by medical personnel. Get medical attention or contact a poison control center immediately.

Section 5. Fire fighting procedures

Fire and explosion hazards: No.

Fire fighting instructions: Use a fire fighting media best suited for the fire's nature; sprayed water, CO₂, chemical foam, powder. Wear protective clothes and a self-contained breathing apparatus.

Specific hazards: Breaks down at high temperature, emitting toxic or irritating gazes, CO, CO₂, calcium oxides, acetone and/or calcium carbonate.

Section 6. Accidental release measures

Product recovery: In case of spill, avoid any eye and skin contact; wear appropriate personal protective equipment. Recuperate the product for reusing or disposal. Use appropriate container or inert absorbing material (vermiculite, dry sand or earth, absorbing clay; avoid combustible materials). Thoroughly rinse any spill to avoid damage to surrounding plants. When wet, the product may make the surfaces slippery. Avoid any spilling in watercourses and drains; contain or deviate the water to minimize the contaminated area. Contact competent authorities in case of large spill or if it may be harmful to the environment. The recuperated product may be reused.

Elimination: Dispose by spreading on compost or by contacting a firm specialized in toxic waste disposal. Dispose of waste material according to local, state, provincial and federal regulations.

Section 7. Handling and storage

General precautions: Hygroscopic product. Keep in a cool, dry, well aerated place, in sealed containers. Keep away from incompatible substances. Do not breathe vapors. Avoid any contact with the eyes or the skin. Wear gloves and wash hands after manipulation. Wash contaminated clothes before wearing them again.

Storage material: Stainless steel, fiberglass, polypropylene and polyethylene. Avoid metals. Keep tanks in good condition.

Handling material: Use the same materials as for storage.

Section 8. Exposure control / personal protection

Engineering control: Ensure a good, natural ventilation. A general dilution ventilation system is preferred to keep exposure within applicable limits.

Individual protection equipment: Wear gloves, waterproof apron and boots and safety goggles when handling the concentrated product. Avoid contact lenses without eye protection. Make sure there is an eyewash station near the work zone. Wearing a respirator is recommended, especially if exposure levels are unknown, exceed the limits or cause discomfort.

Section 9. Physical and chemical properties

APPEARANCE: Clear, yellowish liquid.
ODOR: Acetic acid odor.
DENSITY kg/L (@ 20°C): 1.13
pH: 4.94
SALTING OUT: Below 0°C.
Kg Ca per litre: 0.068 (0.149 lb)
SOLUBILITY IN WATER: Infinite
CONDUCTIVITY (@ 100 ppm Ca): Not available. (mmho/cm).

Section 10. Stability and reactivity

Stability: Stable in normal use conditions. Avoid heating at high temperature. Avoid any contact with incompatible products.

Conditions to avoid: Breaks down at high temperature, emitting toxic or irritating gazes, CO, CO₂, calcium oxides, acetone and/or calcium carbonate.

Incompatible substances: Incompatible with strong oxidizing agents, acids and bases.

Polymerization: Will not occur.

Section 11. Toxicological information

Product's irritating properties: Irritating for the skin, the eyes and the digestive and respiratory systems.

Product sensitization: No known effect.

Carcinogenicity: No known effect.

Reproductive toxicity: No known effect.

Mutagenicity: No known effect.

Synergicity products: No known to **Agro 100 Ltée.**

Section 12. Ecological information

The product is biodegradable. Not subject to bioaccumulation. Effect on animals: Acetic acid: LC50 fish = 75-88 mg/L, 96 h.

Section 13. Disposal consideration

Waste disposal methods: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transportation information

Status: Not a controlled material.

Proper shipping name: Not applicable.

Hazard class: Not applicable.

UN number: Not applicable.

Packing group: Not applicable.

Reportable quantity: Not applicable.

Section 15. Regulatory information

Provincial regulation: Finished material not controlled.

Federal regulation: Registration number (Law on chemical fertilizers) : **not required.**

WHMIS class: Not controlled.

Section 16. Other informations

Emergency:

Agro 100 Ltée.

day: (450) 759-8887

night: (450) 759-8887

Guaranteed analysis:

<i>Analysis:</i>	<i>Nitrogen types:</i>
Nitrogen (N):..... 0 %	Urea:..... 0 %
	NH ₄ ⁺ :..... 0 %
	NO ₃ ⁻ :..... 0 %
	Methylene diurea:..... 0 %
	<i>Phosphorus types:</i>
Phosphorus (P ₂ O ₅): 0 %	Polyphosphates:..... 0 %
	Orthophosphates:..... 0 %
Potassium (K ₂ O):..... 0 %	
Calcium (Ca):..... 6 %	Copper (Cu):..... 0 %
Magnesium (Mg):..... 0 %	Molybdène (Mo):..... 0 %
Sulfur (S):..... 0 %	Iron (Fe):..... 0 %
Zinc (Zn):..... 0 %	Manganese (Mn):..... 0 %
Boron (B):..... 0 %	

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