

MATERIAL SAFETY DATA SHEET
Maize PEPC, Cat. #200

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SECTION 1 - PRODUCT INFORMATION

Product ID: Phosphoenolpyruvate Carboxylase, Maize, cat.# 200
EC # 4.1.1.31 CAS # 9067-77-0

Synonyms: Maize PEPC, MPEPC, PEP Carboxylase

Product Use: Biochemical manufacturing

SECTION 2 - INGREDIENTS

Phosphoenolpyruvate Carboxylase, Mannitol, buffer, stabilizers

SECTION 3 - PHYSICAL PROPERTIES

Form/Appearance:	light tan flowing powder, faint odor	
	Typical Low-RANGE-High	Unit of Measure
Sp. Gravity:	NOT AVAILABLE	
Bulk Density:	NOT AVAILABLE	
Viscosity:	NOT AVAILABLE	
pH:	6 - 9 (10 mg/ml aqueous solution)	pH
	Typical Low-RANGE-High	Deg. @ Pressure
Boiling Pt:	~ 100.0	C 1.0 ATMOSPHERES
Freezing Pt:	~ 0.0	C 1.0 ATMOSPHERES
Decomp. Tmp:	NOT AVAILABLE	
Solubility in Water Description:	Soluble	

SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point: NOT AVAILABLE
Autoignition: NOT AVAILABLE

Extinguishing Media:
Use water fog, foam, CO2 or dry chemical extinguishing media.

Fire Fighting Procedures:
Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

Unusual Hazards:
Dust-air mixtures may ignite or explode.

Additional Fire and Explosion Data:
None known.

MATERIAL SAFETY DATA SHEET
Maize PEPC, Cat. #200

SECTION 5 - HEALTH EFFECTS

Acute Overexposure Effects:

Contact with the eyes may result in irritation. Prolonged or repeated skin contact may result in irritation. Inhalation may result in respiratory irritation. Ingestion may result in gastric disturbances. There are no other known acute effects associated with this material.

Chronic Overexposure Effects:

There are no known chronic effects associated with this material.

First Aid Procedures - Skin:

Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.

First Aid Procedures - Eyes:

Immediately wash eyes with running water for 15 minutes. If irritation develops, get medical attention.

First Aid Procedures - Ingestion:

If swallowed, wash out mouth and give water. Never give fluids or induce vomiting if the victims unconscious or having convulsions. Get immediate medical attention.

First Aid Procedures - Inhalation:

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

First Aid Procedures - Special Precautions:

None known.

SECTION 6 - REACTIVITY DATA

Reactivity - Stability Data:

Stable.

Reactivity - Incompatibility:

Avoid pyrophosphate ion contamination (inhibitor). Avoid contact with metals.

Reactivity - Conditions/Hazards to Avoid:

None known.

Reactivity - Hazardous Decomposition/Polymerization:

Hazardous decomposition products: None known.

Polymerization: Does not occur.

Reactivity - Corrosive Properties:

Not corrosive.

Reactivity - Oxidizer Properties:

Not an oxidizer.

Other Reactivity Data:

None known.

SECTION 7 - PERSONAL PROTECTION

Personal Protection - Clothing:

Glove, coveralls, apron, boots as necessary to prevent skin contact.

Personal Protection - Eyes:

Chemical goggles; also wear a face shield if splashing hazard exists.

Personal Protection - Respiration:

Wear a NIOSH approved respirator.

MATERIAL SAFETY DATA SHEET
Maize PEPC, Cat. #200

Personal Protection - Ventilation:
Use local exhaust to control dust.

Other Personal Protection Data:
None under normal conditions.

SECTION 8 - SPILL / LEAK PROCEDURES

Spill/Leak Procedures - General:

Spills should be contained, solidified and placed in suitable containers for disposal in a licensed facility. Wear appropriate respiratory protection and protective clothing and provide adequate ventilation during clean-up.

Spill/Leak Procedures - Waste Disposal:

Incinerate or bury as a solid in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

Spill/Leak Procedures - Container Disposal:

Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

Other Spill/leak Procedures:

No other spill procedures necessary.

SECTION 9 - STORAGE AND HANDLING

Storage and Handling - General:

Store at 5⁰ C, desiccated.

Other Storage and Handling Data:

Bring to room temperature before opening container to minimize the absorption of water.

SECTION 10 - REGULATORY INFORMATION

TSCA Inventory Status: This product is a mixture. All components are listed.

CERCLA Reportable Qty: NONE

Hazard Ratings:

Health:	Fire:	Reactivity:	Special:
2	1	2	

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