

MILLER CHEMICAL & FERTILIZER CORPORATION

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: CELL FORCE MAX™
Chemical Name: Inorganic Calcium Salt
Common Name, Synonym: None known

Material Uses: Liquid Fertilizer

Manufacturer/Manufactured For: Miller Chemical and Fertilizer Corporation Phone: (717) 632-8921 FAX: (717) 646-1104 CHEMTREC: (800) 424-9300

Section 2 – Composition/Information on Ingredients

Ingredient Name	CAS Number	%
The proprietary ingredients in CELL FORCE MAX™ are non-		
hazardous		

Section 3 - Hazards Identification

☆☆☆☆ Emergency Overview ☆☆☆☆☆

Primary Entry Routes: Eye and skin contact is the most likely exposure. Ingestion is possible.

Target Organs: Eyes, skin and stomach.

Potential Health Effects

Inhalation: My cause slight irritation if mist occurs.

Eye: May cause eye irritation. **Skin:** May cause skin irritation.

Ingestion: Large doses may cause nausea, vomiting, and stomach pain or cramps.

Acute Effects: Irritation
Chronic Effects: Non known

Signs and Symptoms of exposure: Eye contact may produce irritation and/redness.

Medical Condition Aggravated by Long-Term Exposure: None known **Physical Hazards:** Refer to MSDS section 7 for handling and storage

Signal Word: Not applicable/non-hazardous



Section 4 - First Aid Measures

EYE CONTACT

Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

SKIN CONTACT

Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

INHALATION

Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician.

INGESTION

If swallowed, DO NOT induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head bellow hips to prevent breathing vomit into lungs. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician immediately!

Section 5 – Fire-Fighting Measures

Flash Point (METHOD):

Auto-Ignition:

Flammable Limits:

Not Available

Not Available

Extinguishing Media: CELL FORCE MAX™ is non-flammable. If involved in fire, use

water.

Special Fire Fighting Procedures: None currently known.

Unusual Fire and Explosion Hazards: Oxides of nitrogen may be generated.

Section 6 - Accidental Release Measures

Personal precautions

Evacuate non-essential personnel, eliminate ignition sources, and wear protective equipment (See Section VIII). Shut off source of leak only if safe to do so. Wear respiratory equipment if exposure limits are exceeded.

Contain spill

CELL FORCE MAX™ may promote eutrophication in water ways. Recover free product. To clean up residue, flush sparingly with water or use an absorbent. Avoid runoff to ground water, surface waters, and sewers. It may be necessary to remove contaminated soil. If product is flammable or combustible, use non-sparking tools. If acidity (low pH) is a problem, neutralize with hydrated lime, soda ash, or sodium bicarbonate. If alkalinity (high pH) is a problem neutralize with dilute acetic acid or dilute hydrochloric (muriatic) acid. If required, notify state and local authorities.



Section 6 - Accidental Release Measures continued

Disposal Method

Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose of material in accordance with all Federal, State and Local regulations. Local regulations may be more stringent than Federal or State.

Section 7 - Handling and Storage

Handling: Wear protective equipment when handling. Wash thoroughly after handling. Do not

get in eyes. Do not breathe vapor, mist, or dust. Avoid prolonged or repeated contact

with skin. Do not swallow.

Storage: For industrial use only. Keep container closed when not in use. Store in a cool dry

place. Keep out of reach of children.

Section 8 - Exposure Controls/Personal Protection

Engineering Controls:

Mechanical: General ventilation is usually adequate.

Respiratory Protection: If exposure limits are exceeded, or if exposure may occur, use a

NIOSHA/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSHA publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory

protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. For emergencies, a NIOSHA/MSHA approved positive

pressure-breathing apparatus should be readily available.

Eye Protection: Chemical goggles or face shield. Always wear eye protection when

working with chemicals. Never wear contact lenses when working with

chemicals.

Skin Protection: Rubber gloves. Clean protective body covering, rubber apron, and

rubber boots.

Work Hygienic Practices: Avoid contact with skin, eyes, and clothing. After handling this product,

wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take First Aid action shown

in Section IV. Launder contaminated clothing before use.

Other Protective Equipment: Safety shower, eye wash fountain, and washing facilities should be

readily available.



Section 9 - Physical and Chemical Properties

Appearance: Light brown to brown clear liquid

Odor: Mild

pH (aqueous approx. 5% in DW):

Boiling point/Boiling range:

Freeze Point:

Vapor Pressure (mmHg):

Vapor Density (Air=1):

2.000 to 3.000

≥ 212°F (100°C)

No Determined

Not Determined

Solubility in Water: Soluble

Specific Gravity (H₂O=1 @ 4°C): 1.41 – 1.42 g/mL @ 68° F (20°C)

Evaporation Rate (NA=1): Not Determined Percent Volatile by Volume: Not Determined

Section 10 - Stability and Reactivity

Chemical Stability: Stable

Materials to Avoid: Reducing agents

Hazardous Decomposition or Byproducts: Nitrogen oxides (NO, NO₂, N₂O₄, etc.)

Hazardous Polymerization: Will not occur

Section 11- Toxicological Information

Toxicity Data:

Acute Eye Irritation:Data not availableSkin Sensitization:Data not availableAcute Dermal Effects:Data not availableAcute Dermal Irritation:Data not available

Acute Oral Effects:Data not availableMutagenicity:Data not availableAcute Inhalation Effects:Data not availableTeratogenicity:Data not available

Section 12 – Ecological Information

Ecotoxicity: Data not available **Aquatic Toxicity:** Data not available **Environmental Fate:** Data not available



Section 13 - Disposal Considerations

Disposal: If uncontaminated, recover and reuse as product. If

contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

Disposal Regulatory Requirements: Consult local, county, state, or federal regulatory agencies for

acceptable disposal procedures and disposal locations

Container Cleaning and Disposal: Consult local, county, state, or federal regulatory agencies for

acceptable disposal procedures and disposal locations

Section 14 - Transport Information

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:

PACKING GROUP:

HAZARD CLASS:

LABEL/PLACARD REQUIRED:

UN/NA No.:

WATER TRANSPORTATION

PROPER SHIPPING NAME:

PACKING GROUP:

HAZARD CLASS:

LABEL/PLACARD REQUIRED:

UN/NA No.:

AIR TRANSPORTATION

PROPER SHIPPING NAME:

PACKING GROUP:

HAZARD CLASS:

LABEL/PLACARD REQUIRED:

UN/NA No.:

OTHER AGENCIES:

SECTION 14 NOTES: This product is not considered a hazard



Section 15 – Regulatory Information

EPA Regulations:

Reportable Quantity –CERCLA: Not applicable

SARA Title III (EPCRA): Not applicable RCRA Waste Code: Not applicable

State Regulations:

CA Proposition 65: Not applicable

EPA National Response Center (800) 424-8802

Section 16 - Other Information

Preparation Date: 07/06/2011

Prepared By: Miller Chemical Compliance Officer

Revision Date: Revision Notes:

NOTICE TO READER: THE INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET

("MSDS") RELATES ONLY TO THE SPECIFIC PRODUCT(S) DESIGNATED HEREIN (THE "PRODUCT"). THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CURRENT AND CORRECT AS OF THE DATE OF THIS MSDS, AND OBTAINED FROM SOURCES THAT ARE BELIEVED TO BE RELIABLE. HOWEVER, THIS INFORMATION IS FURNISHED WITHOUT

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