

# CellMate Foliar

## Safety Data Sheet



According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY

#### 1.1 PRODUCT IDENTIFIERS

Product Name: CellMate Foliar  
Product Number: FBS1022  
Active Ingredient (%): Calcium 8.0%, Nitrogen 3.0%, Boron 0.5%  
Recommended Use: Fertilizer

#### 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Uses of the Substance/Mixture: Various agricultural applications

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

FBSciences, Inc.  
153 N. Main St., Ste. 100  
Collierville, TN 38017 USA  
1-901-221-1200

#### 1.4 EMERGENCY TELEPHONE NUMBER

Emergency Number: CHEMTREC 1-800-424-9300  
24 Hour Emergency HAZMAT Response: 1-800-229-5252  
EPA National Response Center: 1-800-424-8802

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification (GHS-US)  
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin Irritation: 2 H315 - Causes skin irritation

Eye Irritation: 2B H320 - Causes eye irritation

#### 2.2 LABEL ELEMENTS

Pictograms



Signal word: WARNING

Hazard statement(s):

H315	Causes skin irritation
H318	Serious eye damage
H372	Causes damage to organs through prolonged or repeated exposure

Precautionary statement(s):

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P309+P310	IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.

P301+P330	IF SWALLOWED: Rinse mouth.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

## 2.3 OTHER HAZARDS NOT CLASSIFIED (HNOC) OR NOT COVERED BY GHS

None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 SUBSTANCES

<u>Material</u>	<u>% by Weight</u>	<u>CAS No.</u>
Monoethanol Amine	1-10%**	141-43-5
Boric Acid	4.91%*	10043-35-3
Calcium Chloride	14.16%	10043-52-4
Nitric Acid, ammonium calcium salt	22.4%	15245-12-2

\*The amount of elemental boron is less than 5% therefore the hazard statements associated with boron not required.

\*\*exact percentage being withheld as confidential business information.

## SECTION 4: FIRST AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES

General information: Contact with eyes or skin may cause irritation. Seek medical attention if irritation persists.

If inhaled: Move to fresh air: Obtain medical attention immediately if breathing becomes difficult.

In case of skin contact: Wash with soap and plenty of water.

In case of eye contact: Flush eyes with water immediately with plenty of water for at least 15 minutes. Obtain medical attention if irritation persists.

If ingested: Do not induce vomiting. Obtain medical attention.

### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Symptoms/effects: None reasonably foreseeable

### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Notes for the doctor: Treat symptomatically

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 EXTINGUISHING MEDIA

Suitable extinguishing media: Use water, dry chemical, foam or CO2 extinguishing media.

Unsuitable extinguishing media: No information available.

### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Fire hazard: Not flammable

Hazardous combustion products: Metal oxides, sulfur oxides.

### 5.3 ADVICE FOR FIRE FIGHTERS

Do not attempt to take action without suitable protective equipment: self-contained breathing apparatus and complete protective clothing.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For non-emergency personnel: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with eyes or skin.

Protective equipment for emergency responders: Do not attempt to take action without suitable protective equipment. For further information, see section 8 Exposure controls/personal protection.

### 6.2 ENVIRONMENTAL PRECAUTIONS

Avoid uncontrolled release into the environment.

### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

For containment: Store in original container.

For cleaning up: Take up liquid spill in absorbent material.

## SECTION 7: HANDLING AND STORAGE

Handling: Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin or eyes. Do not ingest.

Storage: Keep out of reach of children. Do not contaminate water, food, or feed by storage or disposal. Do not store below 40°F (5°C). Keep from freezing.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

No additional information available.

### 8.2 EXPOSURE CONTROLS

Environmental exposure controls: Avoid uncontrolled release to the environment.

#### 8.2.1 APPROPRIATE ENGINEERING CONTROLS

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### 8.2.2 PERSONAL PROTECTIVE EQUIPMENT

Hand protection: Protective gloves.

Eye protection: Safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Dark brown to black
Odor:	Slight ammonia and ferrous odor
Vapor Pressure:	Greater than 1.0 @ 100°C
Vapor Density:	(Air = 1) N/A
pH:	5.2
Relative Density:	H2O=1 1.42-1.56 @ 20°C
Melting Point:	N/A

# Safety Data Sheet

# CellMate Foliar

Freezing Point:	-9°C
Solubility in Water:	Complete
Solubility in alcohols:	N/A
Boiling Point:	N/A
Flash Point & Method:	Non-flammable
Evaporation Rate:	Non-volatile
Flammability:	Non-flammable
Flammable Limits:	N/A LEL: N/A UEL: N/A
Auto-ignition Temperature:	N/A
Decomposition Temperature:	N/A
Viscosity:	N/A

## 9.2 OTHER INFORMATION

No other information.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2 CHEMICAL STABILITY

Stable under normal conditions.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known under normal conditions of use.

### 10.4 CONDITIONS TO AVOID

None under recommended storage and handling conditions (see section 7).

### 10.5 INCOMPATIBLE MATERIALS

Strong oxidizers. Reactive metals.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No additional information available.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Product Information

Component Information

<u>Component</u>	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>LC50 Inhalation</u>
Calcium Carbonate	1000 mg/kg (rat)	Not listed	Not listed
Boric Acid	3,500 mg/kg (rat)	Not listed	Not listed
Monoethanol Amine	700 mg/kg (mouse)	1 mL/kg (rabbit)	Not listed
Nitric Acid, ammonium calcium salt	500 mg/kg (rat)	>2000 mg/kg ODEC (rat)	Not listed

Toxicologically Synergistic Products: No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute

# Safety Data Sheet

# CellMate Foliar

Likely Routes of Exposure: Skin, eye, ingestion  
Eye Irritation: May cause irritation, stinging, tearing, itching, swelling, and/or redness  
Skin Sensitization: Contact with skin may cause irritation.

Mutagenic Potential: None observed  
Reproductive Hazard Potential: None observed  
Chronic/Subchronic Toxicity Studies: None observed  
Carcinogenic Potential: None observed  
Other Toxicity Information: Not available  
Toxicity of Other Components: Not available

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 TOXICITY

Ecotoxicity: Do not empty into drains.

Toxicity:

Calcium Chloridez – Toxicity to fish: LC50 - Lepomis macrochirus - 10,650 mg/l - 96 h  
Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 2,400 mg/l - 48 h

Persistence and Degradability: No information available

Bioaccumulation/ Accumulation: No information available.

Mobility: No information available.

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS

Disposal: Dispose of in an approved disposal facility in accordance with all municipal, provincial, and federal regulations.

Container Disposal: Non-refillable container. Do not reuse or refill this container.

## SECTION 14: TRANSPORT INFORMATION

UN Number: Not regulated by DOT, IATA or IMDG

UN Proper Shipping Name: Not applicable

DOT Classification: Not applicable; no label or placard required

B/L Freight Classification: Not regulated

International Transportation: Not applicable

HAZARD CLASSIFICATION (0 minimal, 1 slight, 2 moderate, 3 serious, 4 severe)

NFPA: HEALTH 1 FIRE 0 REACTIVITY 0

1 slight – exposure could cause irritation but only minor residual injury even if no treatment is given.

## SECTION 15: REGULATORY INFORMATION

### 15.1 US FEDERAL REGULATIONS

UN Number: Not regulated by DOT, IATA or IMDG

UN Proper Shipping Name: Not applicable

DOT Classification: Not applicable; no label or placard required

B/L Freight Classification: Not regulated

International Transportation: Not applicable

HAZARD CLASSIFICATION (0 minimal, 1 slight, 2 moderate, 3 serious, 4 severe)

NFPA: HEALTH 1 FIRE 0 REACTIVITY 0

1 slight – exposure could cause irritation but only minor residual injury even if no treatment is given.

## 15.2 INTERNATIONAL REGULATIONS

Canada: No additional information available.

EU Regulations: No additional information available.

## 15.1.2 NATIONAL REGULATIONS

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard.

Massachusetts Right To Know Components:

Monoethanol Amine	CAS-No. 141-43-5
-------------------	------------------

Pennsylvania Right To Know Components:

Calcium chloride	CAS-No. 10043-52-4
------------------	--------------------

Monoethanol Amine	CAS-No. 141-43-5
-------------------	------------------

Boric acid	CAS-No. 10043-35-3
------------	--------------------

New Jersey Right To Know Components:

Calcium chloride	CAS-No. 10043-52-4
------------------	--------------------

Monoethanol Amine	CAS-No. 141-43-5
-------------------	------------------

Boric acid	CAS-No. 10043-35-3
------------	--------------------

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16: OTHER INFORMATION

The directions for use of this product are believed to be adequate and must be followed carefully. The use of this product is beyond the control of the manufacturer, and, therefore, to the extent consistent with applicable law, no warranty, representation, or guarantee of any kind, expressed or implied, is made as to the effects of such use or any results obtained if not used in accordance with printed directions and established safe practice or if unusual or extraordinary weather conditions occur. To the extent consistent with applicable law, the buyer's exclusive remedy and manufacturer's or seller's exclusive liability in tort or otherwise, shall be limited, at the manufacturer's option, to replacement of, or the repayment of the purchase price for, the quantity of product with respect to which damages are claimed.

The information and recommendations contained herein are based upon data believed to be correct. However there is no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.