



DESCRIPTION

Citros Foliar is a foliar-applied liquid nutrient product that is designed to provide nutrients that may be deficient in the soil or plant.

DIRECTIONS FOR USE

Citros Foliar should be applied as a foliar spray. AVOID foliar applications to deciduous trees during bloom. Shake, stir, or swirl contents before using. Always add this product to the spray tank before adding pesticides. Tank mix compatibility is impacted by water quality which may vary by location. **Citros Foliar** is compatible with most of our other products. When mixing with phosphate fertilizers adjusting the pH of the final tank mix to 5.0 with citric acid will improve compatibility and improve uptake. When mixing **Citros Foliar** with other materials always establish compatibility using the standard quart jar method prior to tank mixing. Spray in the late evening or early morning. DO NOT spray in the heat of the day or when plants are under moisture stress. DO NOT spray to the point of runoff. Use as fine of a spray mist as possible. Allow 3-4 hours after application before sprinkler irrigation to avoid washing product off.

RATES & TIMING

All Crops	1-6 PINTS PER ACRE	Repeated applications may be required. Wait at least 10 to 14 days before reapplying. Higher rates should be used for orchards and vineyards. Always use the higher rate with water volume greater than 50 gallons per acre.
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WARRANTY & CONDITIONS OF SALE

Manufacturer warrants that this material conforms to the chemical description hereon and is reasonably fit for use as directed. No other warranty is made, either expressed or implied. **BEFORE OPENING**, see other conditions and limitations that apply which are available at: <http://www.FBSciences.com/ProductConditionsOfSale/>. Information regarding the contents and levels of metals in this product is available on the Internet at: <http://www.aapfco.org/metals.htm>

2.50 US Gal / 9.46 Liters
 10.98 lbs per Gallon @ 68° F
 1.31 kg per Liter @ 20° C
Net Wt. 27.45 lb / 12.39 kg

FBSciences Inc.
 153 N. Main St, Suite 100
 Collierville, TN 38017 USA

F1837
 V08187

GUARANTEED ANALYSIS

Magnesium (Mg)	2.00%
Sulfur (S)	4.00%
Manganese (Mn)	2.00%
Zinc (Zn)	2.00%

Derived from: magnesium sulfate, manganese sulfate, and zinc sulfate complexed with glucoheptonates.

READ ENTIRE LABEL BEFORE USE
SHAKE WELL BEFORE USE
DO NOT STORE BELOW 40°F (5°C)
KEEP OUT OF REACH OF CHILDREN
WARNING



HAZARD STATEMENTS

Contact with eyes or skin may cause irritation.

PRECAUTIONARY STATEMENTS

Wear protective gloves and protective eyewear. Wash skin thoroughly after handling. Clothing should be thoroughly washed before re-use.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

IF SWALLOWED: Do not induce vomiting. Clean mouth with water. Call a Poison Control Center or doctor if you feel unwell.

IF ON SKIN: Remove immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs get medical attention.

IF INHALED: Remove person to fresh air & obtain medical attention immediately if breathing becomes difficult.



Citros 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: Citros Foliar
Product Number: FBS1068
Active Ingredient (%): Magnesium 2.0%, Sulfur 4.0%, Manganese 2.0%, Zinc 2.0%
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
H320	Causes eye irritation

Precautionary statement(s):

P264	Wash skin thoroughly after handling.
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>
Magnesium sulfate	21.50%	14168-73-1
Manganese sulfate, monohydrate	6.54%	10034-96-5
Zinc sulfate, monohydrate	16.62%	7446-19-7
Citric acid	<1.00%	77-92-9

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General information: Contact with eyes or skin may cause irritation. Undiluted material will be irritating on direct eye contact. If ingested, a small quantity may cause nausea, diarrhea or stomach discomfort. Clothing should be thoroughly washed before re-use. 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 MEDIAL 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: Product is non-reactive under normal conditions.

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
Odor:	Slightly sweet to peanut oil
Vapor Pressure:	Greater than 1.0 @ 100°C
Vapor Density:	(Air = 1) N/A
pH:	3.1
Relative Density:	H2O=1 1.28-1.40 @ 20°C
Melting Point:	N/A

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Freezing Point:	-3°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>
Citric acid	3000 mg/kg (rat)	>2 g/kg (rat)	Not listed
Manganese sulfate	2150 mg/kg (rat)	Not listed	Not listed
Zinc sulfate, monohydrate	2150 mg/kg (rat)	Not listed	Not listed

Toxicologically Synergistic Products: No information available

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

Acute

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.
Persistence and Degradability: No information available
Bioaccumulation/ Accumulation: No information available.
Mobility: No information available.

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: The following components are subject to reporting levels established by SARA Title III, Section 313:

Zinc sulphate monohydrate CAS-No. 7446-19-7

Manganese Sulfate Monohydrate CAS-No. 10034-96-5

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

Massachusetts Right To Know Components:

Zinc sulfate monohydrate CAS-No. 7446-19-7

Pennsylvania Right To Know Components:

Manganese Sulfate Monohydrate CAS-No. 10034-96-5

Zinc sulfate monohydrate CAS-No. 7446-19-7

Magnesium sulfate monohydrate CAS-No. 14168-73-1

Citric acid CAS-No. 77-92-9

New Jersey Right To Know Components:

Manganese Sulfate Monohydrate CAS-No. 10034-96-5

Zinc sulfate monohydrate CAS-No. 7446-19-7

Magnesium sulfate monohydrate CAS-No. 14168-73-1

Citric acid CAS-No. 77-92-9

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.