

ZiCAN Soil

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 Number: FBS1117
Recommended Use:

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

Uses of the Substance/Mixture: Various agricultural and industrial 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

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification (GHS-US)

Skin Irritation: 2 H315 - Causes skin irritation
Eye Irritation: 2A H319 – Causes serious eye irritation
Oxidizing liquid: 3 H272- May intensify fire; oxidizer

2.2 LABEL ELEMENTS

Pictograms



Signal word: Warning

Hazard statement(s):

H315	Causes skin irritation
H320	Causes eye irritation
H272	May intensify fire; oxidizer

Precautionary statement(s):

P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources- No smoking.
P221	Take any precaution to avoid mixing with combustibles
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

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 person to fresh air and keep 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>
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**exact percentage 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. 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: irritation, nausea, headache, shortness of breath

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Notes for the doctor: Treat symptomatically

Symptoms of exposure:

- Tearing, burning sensation in eyes, redness in eyes,
- nausea, diarrhea, vomiting if ingested
- possible redness on skin

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: thermal decomposition can lead to release of irritating gases or vapors

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. Wash hands thoroughly after handling.

Storage: Keep out of reach of children. Do not contaminate water, food, or feed by storage or disposal. Store in a cool dry area. Do not freeze. Store away from direct sunlight and any sources of heat.

Other notes on handling: Do not pressurize, cut, heat or weld containers. Do not reuse empty containers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

No applicable occupational exposure limits.

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 with side shields or goggles.

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:	Amber/ dark brown
Odor:	no noticeable odor
Vapor Pressure:	Greater than 1.0 @ 100°C
Vapor Density:	(Air = 1) N/A
pH:	Not determined
Relative Density:	Not determined
Melting Point:	Not determined
Freezing Point:	Approximately 0°C
Solubility in Water:	Complete
Solubility in alcohols:	Not determined
Boiling Point:	Not determined
Flash Point & Method:	Non-flammable
Evaporation Rate:	Non-volatile
Flammability:	Non-flammable
Flammable Limits:	Not determined
Auto-ignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Viscosity:	Not determined

9.2 OTHER INFORMATION

No other information.

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

Reacts with metallic powders

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

Avoid contact with extreme heat and incompatible materials

10.5 INCOMPATIBLE MATERIALS

This product is incompatible with flammable and combustible materials, strong reducing agents, finely powdered metals and strong acids.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Decomposition may yield zinc compounds and oxides of nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Product Information

Component Information: no information available.

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 regulated
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 1

SECTION 15: REGULATORY INFORMATION

15.1 US FEDERAL REGULATIONS

UN Number: Not regulated by DOT, IATA or IMDG
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HAZARD CLASSIFICATION (0 minimal, 1 slight, 2 moderate, 3 serious, 4 severe)

NFPA: HEALTH 1 FIRE 0 REACTIVITY 1

15.2 INTERNATIONAL REGULATIONS

Canada DSL: Ingredients are listed.

Canada NPRI Ingredient Disclosure list (limit 0.1%): None of the ingredients are listed

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: None known.

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.