

FBS Organics Transit 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 Name: FBS Organics - Transit Soil
Product Number: FBS1086
Active Ingredient (%): Zinc 5.0%
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)

Eye Irritation: 1A H318 – Causes serious eye damage/eye irritation

Environmental hazards: 1B H400- Acute aquatic toxicity

1A H410- Chronic aquatic toxicity

2.2 LABEL ELEMENTS

Pictograms



Signal word: Danger

Hazard statement(s):

H318

Causes serious eye damage.

H400

Toxic to aquatic life.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

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P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P391	Collect spillage.
P501	Dispose of contents/container to an approved waste disposal plant.

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>
Zinc Sulfate	10-20%*	7733-02-0

All other components below reportable levels

**Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.*

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General information: Contact with eyes may cause irritation. Undiluted material will be irritating on direct eye contact. 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. Consult a physician.

In case of eye contact: Flush eyes with water immediately with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Obtain medical attention if irritation persists.

If ingested: Do not induce vomiting. Obtain medical attention if feeling unwell.

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

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 (4.5°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.

Occupational exposure limits: No exposure limited noted.

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: Chemical resistant gloves.

Eye protection: Safety goggles. Face shield (8 inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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:	Slightly sweet to woody
Vapor Pressure:	Greater than 1.0 @ 100°C
Vapor Density:	(Air = 1) N/A

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pH:	3.2
Relative Density:	H2O=1 1.16 @ 20°C
Melting Point:	N/A
Freezing Point:	0°C
Solubility in Water:	Soluble
Solubility in alcohols:	Miscible in alcohols
Boiling Point:	100°C
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 and non-reactive under normal use, storage, and transport.

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.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No hazardous decomposition products are known.

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>
Zinc Sulfate <small>(CAS 7733-02-0)</small>	>2000mg/kg (Rat)	623mg/kg (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

Likely Routes of Exposure: Skin, eye, ingestion.

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Eye Irritation:
Skin Sensitization:

May cause serious eye damage.
This product is not expected to cause skin sensitization.

Mutagenic Potential: None observed
Reproductive Hazard Potential: None observed
Chronic/Subchronic Toxicity Studies: None observed
Carcinogenic Potential: None observed
Other Toxicity Information: No available
Toxicity of Other Components: Not available

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

Ecotoxicity: Very toxic to aquatic life with long lasting effects. 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. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.
Container Disposal: Non-refillable container. Do not reuse or refill this container.

SECTION 14: TRANSPORT INFORMATION

UN Number:

Not DOT regulated in domestic (USA ground) transportation in package sizes less than 3550 lbs.; 1610 kg. The DOT transportation information below is for shipments with package sizes equal to or exceeding this value. IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.
DOT (US)

UN number: 3082 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Zinc sulfate)

Reportable Quantity (RQ): 3550 lbs

Poison Inhalation Hazard: No

Environmental hazards Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 8, 146, 335, IB3, T4, TP1, TP29

Packaging exceptions 155

Packaging non bulk 203

Packaging bulk 241

DOT Shipping Notes: 40 CFR 172.504(f)(9) For Class 9, a CLASS 9 placard is not required for domestic (USA ground) transportation, however shipments with packaging exceeding the Reportable Quantity (RQ) or bulk packaging must be marked with the appropriate identification number on a CLASS 9 placard, an orange panel, or a white square-on-point display configuration as required. Since the Class 9 placard is not required (although it may be used) the hazardous material endorsement is also not required on a Commercial Driver's License.

IMDG UN number: 3082 Class: 9 Packing group: III

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EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc sulfate)

Environmental hazards Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

General information Not DOT regulated in domestic (USA ground) transportation in package sizes less than 3,550 lbs; 1,610 kg. IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

IATA UN number: 3082 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Zinc sulfate)

Environmental hazards Yes

ERG Code 9L Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo aircraft Allowed.

Other information Cargo aircraft only Allowed

SECTION 15: REGULATORY INFORMATION

15.1 US FEDERAL REGULATIONS

UN Number: UN3082

UN Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s. (Zinc Sulfate RQ=3550;BS)

DOT Classification: 9

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

NFPA: HEALTH 2 FIRE 0 REACTIVITY 0

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 sulfate CAS# 7733-02-0

SARA 311/312 Hazards: Acute Health Hazard. Zinc Sulfate CAS 7733-02-0

Massachusetts Right To Know Components:

Zinc Sulfate (CAS 7733-02-0)

Pennsylvania Right To Know Components:

Zinc Sulfate (CAS 7733-02-0)

New Jersey Right To Know Components:

Zinc Sulfate (CAS 7733-02-0)

California Prop. 65 Components: WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or 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

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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.