

Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: ArborBiotic

CAS # 2058-46-0

EPA Reg. #: 88482-1

Product Use: pesticides

Company Identification: MGF Scientific Inc.
P.O. Box 210847
Royal Palm Beach, FL 33421

Emergency call: 877-272-6747

Section 2 – Hazards identification

Classification of substance:



Cause serious eye irritation

Cause mild skin irritation.

Toxic if inhaled

GHS labeling elements:

The substance is classified and labeled according to the Globally Harmonized System (GHS):

Hazard pictograms:



GHS07

Signal Word: Warning

Hazard-determined components of labeling: Oxytetracycline hydrochloride

Hazard statements:

Cause Eye Irritation.

Cause mild skin irritation.

Toxi if inhaled

Precautionary Statements:

If in Eye: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If on Skin: Remove all contaminated clothing. Rinse with water.

If Inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing. Wash contaminated clothing before reuse.

If Swallowed: rinse mouth. Do not induce vomiting.

Immediately call Poison Center/doctor.

Cross Sensitivity: Persons hypersensitive to one tetracycline may be hypersensitive to other tetracyclines also.

Section 3 – Composition/information of ingredient

		Percent	CAS No.
Oxytetracycline Hydrochloride	Oxytetracycline Hydrochloride	39.6%	2058-46-0
Other Ingredients	Non-toxic and non-hazardous	60.4%	

Section 4 – First Aid Measures

Symptoms	If ingested may cause diarrhea, abdominal pain or burning, nausea, vomiting, lethargy, increased sensitivity of the skin to sunlight, and fatigue. Ingestion of large amount may cause fatty liver degeneration characterized by nausea, vomiting, high fever, and jaundice. Tetracyclines may decrease the effectiveness of oral contraceptives. Possible allergic reaction to material if inhaled, ingested or in contact with skin.
Eyes:	May cause irritation. Flush with copious quantities of water.
Skin:	May cause irritation. Flush with copious quantities of water.
Inhalation:	May cause irritation. Remove to fresh air. If person stops breathing give them artificial respiration and get medical attention immediately.
Ingestion:	May cause irritation. Flush mouth with water. If a person develops a serious hypersensitivity reaction must receive medical care immediately.
Note to Physicians For current information about the treatment of overdoses, consult a certified Regional Poison Control Center by calling the number listed in your local telephone directory.	

Section 5 – Fire Fighting Measure

Extinguishing media: Use water spray, dry powder or sand, carbon dioxide, or appropriate surrounding fire and materials.

Fire and Explosive Hazards: Not expected to fire or explosive hazard.

Special fire fighting procedures: Fireman should wear positive pressure breathing devices, complete fire protection clothes and shoes. Use water to cool exposed containers to extinguish fire.

Reference to other sections:

See Section 10 for decomposition products.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear approved respiratory protection, chemically compatible gloves and protective clothing. Keep unprotected persons away.

Methods and material for containment and cleaning up: Wipe up spillage or collect spillage using a high efficiency vacuum cleaner. Avoid breathing dust. Place spillage in appropriately labeled container for disposal. Wash spill site.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 – Handling and Storage

Handling

Precautions for safe handling: As a general rule, when handling, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after handling.

Protect against electrostatic charges.

Keep protective respiratory device available.

Conditions for Safe Storage, including any incompatibilities

Storage: Store in tight, light-resistant container. This material should be handled and stored per label instructions to ensure product integrity.

Requirements to be met by storerooms and receptacles: Store in a freezer.

Reference to other sections:

See Section 10 for incompatibilities

Section 8 – Contact Controls and Personal Protection

Max allowed concentration: No Data

Way of measurement: No Data

Engineering Control: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep risk of inhalation low.

Personal Protection

Respirators: Use NIOSH-approved respirator in accordance with health/safety regulations.

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles.

Body: Wear appropriate chemical resistant overalls and rubber boots and rubber gloves. Avoid any skin exposure.

Hands: Wear appropriate gloves.

General protective and hygienic measures: No smoking, eating or drinking during handling. Change to

clean clothes after washing.

Other conditions to avoid: Avoid alcoholic beverages 24 hours before and after handling this product.

Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties

General Information:

Appearance and Physical State: Yellow crystalline powder; odorless

pH Value: 2.0-3.0 (1% aqueous solution)

Melting point: 220 C°

Specific Gravity: Approx. 0.20

Comparative concentration (water: 1): 1.07

Quantity of heat in burning (KJ/mol): 718

Density (gm/ml): 0.2

Critical pressure (Mpa): Not available

Critical temperature: Not available

Flash point (C): Not available

Burning temperature (C): Not available

Explosion: Not available

Solubility: Soluble in water and sparingly in alcohol and methanol; less soluble in dehydrated alcohol; insoluble in chloroform and in ether.

Section 10 – Stability and Reactivity

Chemical Stability: This material is chemical stable

Incompatible to Avoid: Alkalies, Oxidizers

Conditions to Avoid: Avoid exposure to heat and light.

Decomposition Products: When heated to decomposition material emits toxic fumes of NO_x and HCL. Emits toxic fumes under fire condition.

Hazardous Polymerization: No record

Reference to other sections:

See Section 5 for static discharge potential

Section 11 – Toxicological Information

Acute Toxicity:

LD/LC₅₀ values that are relevant for classification:

Oral: LD₅₀ > 5000 mg/kg

Inhalation: LC₅₀ > 1.65 mg/L

Dermal: LD₅₀ > 5000 mg/kg

Eyes: Moderately Irritating

Primary irritant effect:

On eyes: Cause Eye Irritation

On the skin: Slightly Irritating

Sensitization: Product is not considered a contact sensitizer.

Germ Cell Mutagenicity: It was mutagenic in tests with mouse lymphocytes cells with activation. It showed weakly positive results for inducing sister-chromatid exchange in hamster ovary cells with and without activation, but did not induce chromosomal aberrations.

Carcinogenicity: None of the components of this formulation are listed as carcinogen by IARC, NTP or OSHA.

Reproductive Toxicity: In humans, oxytetracycline has been associated with congenital abnormalities such as neural tube defect, cleft palate, and heart malformation when used during the second and third months of pregnancy. Staining of teeth may occur in offspring of mothers treated with oxytetracycline during the second and third trimester of pregnancy. Studies in dogs and in rabbits given material resulted increased frequencies of skeletal and other malformations in the offspring; however, studies in mice showed no increase in congenital defects.

STOT-Single Exposure: Not available

STOT-Repeated Exposure: Not available

Aspiration Hazard: Not available

Section 12 – Ecological Data

Eco-toxicity: No data available

Eco-decomposition: No data available

Other: No data available

Section 13 – Disposal Considerations

Disposal: Dispose of waste in accordance with all applicable Federal, State, and local laws.

Section 14 – Transport Information

Class No.: No data available

UN No.: No data available

Packing Group: No data available

Packing in: No data available

Storage: Store in a cool place, keeping away from heat and light.

Section 15 – Regulatory Data

Hazard Data	FIFRA Classification/Typical Hazard Labeling, as outlined in EPA Label Review Manual	OSHA HCS Requirement for Section 2 of SDS
Signal Word	WARNING	WARNING
Acute Toxicity, oral LD ₅₀ > 5000 mg/kg	(Category IV) No required hazard statement	Not Classified
Acute Toxicity, dermal LD ₅₀ > 5000 mg/kg	(Category IV) No required hazard statement	Not Classified

Acute Toxicity, inhalation LD₅₀ > 1.65 mg/L	(Category III) Harmful if inhaled	(Category 4) Toxic if inhaled
Skin Irritation	(Category II) Do not get on skin or on clothing	(Category 3) Cause mild skin irritation
Eye Irritation	(Category II) Cause substantial but temporary eye injury	(Category 2A) Exclamation Mark Causes serious eye damage
Sensitization	Not Classified	Not Classified
Germ Cell Mutagenicity	Weakly positive	
Carcinogenicity	Not labeled	Not Classified
Reproductive/developmental Toxicity	Not labeled	Not labeled
Specific target organ toxicity, single exposure	Not labeled	Not labeled
Specific target organ toxicity, repeated exposure	Not labeled	Not labeled
Aspiration	Not labeled	Not Classified
Environmental (aquatic) toxicity	Not labeled	Not within OSHA's jurisdiction and therefore not required on SDS

FIFRA Classification: This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also included other important information, including direction for use. Following is the hazard information as required on the pesticide label:

WARNING

Cause substantial but temporary eye injury.

Harmful if inhaled.

Avoid breathing dust.

Do not get in eyes or on clothing.

Wear protective eyewear (goggles, facemask or safety glasses).

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

U.S. Regulatory Information: California Prop. 65-Development Toxicity, FIFRA

International Regulatory Information: EINECS#218-161-2

Hazard code: Xn

Risk phrases: R20, R21, R22, R63

Safety phrases: S36/37/39

Canada: WHMIS Class D-2A

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Section 16 – Additional information

SDS Rev. Date: 4/28/15