



17 WP

This document has been prepared to meet the requirements of U.S. OSHA Hazard Communication Standard, 29, CFR 1910.1200. The information contained herein is for the concentrate as packaged unless otherwise indicated.

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: FireLine™ 17 WP fungicide/bactericide  
PRODUCT NUMBER: 1001  
EPA REGISTRATION NUMBER: 80990-1  
ACTIVE INGREDIENT: Oxytetracycline Hydrochloride  
CAS NUMBER: 2058-46-0  
CHEMICAL NAME: 2-naphthacenecarboxamide, 4-(dimethylamino)-1, 4, 4a, 5, 5a, 6, 11, 12a-octahydro-3, 6, 10, 12 dioxo-mono-hydrochloride, 12a pentahydroxy-6-methyl-1, 11-dioxo-mono-hydrochloride  
ANSI COMMON NAME: Oxytetracycline  
MOLECULAR FORMULA:  $C_{22}H_{24}N_2O_9HCl$  (oxytetracycline hydrochloride)  
CHEMICAL CLASSIFICATION: Antibiotic  
USE: Control of bacterial diseases on agricultural crops.  
MANUFACTURER:  
AgroSource, Inc.  
P.O. Box 1341  
Mountainside, New Jersey 07092-0341  
U.S.A.  
General Information:(908) 931-9001

EMERGENCY TELEPHONE NUMBERS:  
IN CASE OF EMERGENCY CALL INFO TRAC  
(800) 535-5053 or (352) 323-3500

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

Component	%w/w	CAS Number	OSHA PEL**	ACGIH TLV**
Oxytetracycline (hydrochloride)	17	2058-46-0	Not Established	Not Established
Quartz		14808-60-7	0.1 mg/cu m Respirable Dust	0.1 mg/cu m Respirable Dust
Inert Ingredient		Not Available	3 mg/cu m Respirable Dust	3 mg/cu m Respirable Dust
Inert Ingredient		Not Available	10 mg/cu m Total Dust 5 mg/cu m Respirable Dust	10 mg/cu m Total Dust 5 mg/cu m Respirable Dust

Unidentified inert ingredients are proprietary and/or non-hazardous.

\*\* Permissible Exposure Limits (PEL) & Threshold Limit Value (TLV) are 8-hour time weighted average (TWA).

### SECTION 3 - HAZARD IDENTIFICATION

#### EMERGENCY OVERVIEW

##### IMMEDIATE CONCERNS:

- Free flowing yellow to tan powder
- Thermal decomposition and burning may form toxic by-products
- For large exposures or fires, wear personal protective equipment

**POTENTIAL HEALTH EFFECTS:** Effects from over exposure may result from either swallowing, inhaling or coming into contact with skin or eyes. Symptoms of oxytetracycline hydrochloride exposure include gastrointestinal irritation, nausea and vomiting. Exposure may cause allergic reaction and anaphylaxis to occur in sensitive individuals. Eye contact may cause moderate eye irritation. As with other antibiotics, it has the potential to change the micro flora of the intestine and allow overgrowth of non-susceptible organisms.

**MEDICAL CONDITIONS AGGRAVATED:** Excessive exposure to any dust may aggravate pre-existing respiratory conditions. May cause allergic reaction and anaphylaxis to occur in individuals with allergic history or pre-existing dermatitis.

### SECTION 4 - FIRST AID MEASURES

**EYE CONTACT:** If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

**SKIN CONTACT:** If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

**INHALATION:** If inhaled, remove to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor immediately for further treatment advice.

**INGESTION:** If swallowed, call a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**NOTES TO PHYSICIAN:** Treat symptomatically. There is no specific antidote. Emesis may be indicated in recent substantial ingestion unless the patient is or could rapidly become obtunded, comatose or convulsing. Is most effective if initiated within 30 minutes. Plasma tetracycline levels are not clinically useful. No specific lab work (CBC, electrolyte, urinalysis) is needed unless otherwise indicated. Anaphylaxis may be managed with appropriate supportive measures including securing an adequate airway, epinephrine and diphenhydramine.

### SECTION 5 - FIREFIGHTING MEASURES

**EXTINGUISHING MEDIA:** In case of fire use water spray, dry chemical, foam or CO<sub>2</sub> extinguishing media.

**FIRE FIGHTING PROCEDURES:** Wear full protective clothing and self-contained breathing apparatus. Evacuate non-essential personnel from the area to prevent exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated.

**FIRE AND EXPLOSION HAZARDS:** None known. As with all dry powders, it is advisable to ground material equipment in contact with dry material to dissipate the potential buildup of static electricity.

**FLASH POINT:** Not Applicable

**AUTO IGNITION TEMPERATURE:** Not Available

**FLAMMABILITY:** Not Available; Limits - Not Applicable

**HAZARDOUS DECOMPOSITION PRODUCTS ASSOCIATED WITH FIRE:** May emit carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas.

## SECTION 6 - ACCIDENTAL RELEASE

**SPILL AND DISPOSAL PROCEDURES:** Control the spill at its source and prevent it from spreading, contaminating soil, or entering sewage or drainage systems or bodies of water. Clean up spills immediately and use suitable protective equipment (Section 8). Keep unnecessary persons away. If emergency response personnel are unavailable or unwarranted, clean up a solid spill by carefully sweeping up the material (avoid creating dust) and using a proper tool to place it into an appropriate disposal container. If liquid, cover the spill with an absorbing material and follow the same procedure used for a solid spill. Scrub the area with a hard water detergent. Pick up liquid with absorbent material and follow the same procedure used for a solid spill. Dispose of or treat all spill residues according to applicable local, state and federal regulations (Section 13). Use suitable protective equipment (Section 8). Follow fire prevention procedures (Section 5).

## SECTION 7 - HANDLING AND STORAGE

**ENGINEERING CONTROLS:** Local exhaust ventilation sufficient to control dust is recommended.

**HANDLING PROCEDURES AND EQUIPMENT:** Avoid generating dust. Use respiratory protection in the absence of adequate ventilation controls (Section 8). Wash skin thoroughly after shift exposure. Keep containers closed when not in use. Clean up spills promptly (Section 6).

**HANDLING AND STORAGE:** Store in a cool, dry place and protect from moisture. Avoid contact with skin or eyes. Do not breathe dust or spray. Do not ingest. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Do not store food, beverages or tobacco products in the storage area. Protect containers from damage. Use entire contents of packages, do not store open packages. Keep out of reach of children and domestic animals. For agricultural crop uses only.

## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

**NOTE:** The following recommendations for exposure controls and personal protection are for the manufacturing, formulating or packaging this product. For commercial application and/or on-farm use, consult the product label.

**INHALATION:** Use MSHA/NIOSH approved dust/mist respirator with any R, P, or HE filter. Do not breathe dust or spray.

**SKIN CONTACT:** Wear chemical resistant (e. g. nitrile or butyl) gloves, coveralls, socks and chemical resistant footwear. For overhead exposure, wear chemical resistant headgear.

**EYE CONTACT:** Safety glasses required. Use chemical splash goggles if potential exists for direct exposure to dust, splashes or sprays. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**INGESTION:** Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is potential for exposure. Wash thoroughly with soap and water after handling.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Free flowing, yellow to tan powder

**ODOR:** Odorless to faint odor.

**MOLECULAR WEIGHT:** 496.9 (Oxytetracycline hydrochloride)

**SOLUBILITY IN WATER:** Oxytetracycline hydrochloride is soluble in water (>20g/l).

**PH:** 2.5-4.0

**VOLATILE COMPONENTS (% w/w):** < 8% (water)

**DENSITY (lb./cu ft):** 42.7 loose, 63.7 compacted

**BOILING POINT (degrees C/degrees F):** Not applicable

**FREEZING POINT (degrees C/degrees F):** Not applicable

**MELTING RANGE (degrees C/degrees F):** Not available

**VAPOR PRESSURE (mm Hg @ degrees C/degrees F):** Not applicable

## SECTION 10 - STABILITY AND REACTIVITY

**STABILITY:** Stable under normal storage and use conditions. Hygroscopic; moisture can cause decomposition.

**HAZARDOUS POLYMERIZATION:** Should not occur.

**HAZARDOUS DECOMPOSITION:** None known.

**INCOMPATIBILITIES:** Decomposed by strong acids and alkalis.

**STORAGE CONDITIONS:** Hygroscopic, protect from moisture. Sensitive to air, light, heat and bases so protect from exposure. Keep containers sealed and avoid damage.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Oxytetracycline

Test	Species	Result
Oral LD <sub>50</sub>	Mouse	6,646 mg/kg, Practically Non-Toxic
Dermal LD <sub>50</sub>	Rabbit	>2,000 mg/kg, Slightly Toxic
Eye	Rabbit	Moderately Toxic
Skin	Rabbit	Non-Irritating
Skin	Guinea Pig	Sensitizing

**MUTAGENIC POTENTIAL:** None observed.

**REPRODUCTIVE HAZARD POTENTIAL:** Possible risk of congenital malformation in the fetus.

**CHRONIC/SUB-CHRONIC TOXICITY:** Gastrointestinal irritation with nausea, epigastric pain and burning, vomiting, abdominal pain, transitory yellowish-brown discoloration of the tongue, anorexia and diarrhea have been reported following oral administration. Blood disorders (delay in coagulation) have been reported. Possible hypersensitization and super-infections due to overgrowth of organisms not affected by the antibiotic agent. Three types of renal disease is associated with over exposure: Acute Non-Oliguric Renal Failure (individuals with pre-existing pancreatitis or fatty liver), Uremia (individuals with pre-existing impaired renal function), and Reversible Nephrotoxicity (due to out-dated or degraded tetracyclines).

**CARCINOGENIC POTENTIAL:** Not classifiable based on its IARC, ACGIH, OSHA, NTP or EPA.

### INERT INGREDIENTS

**Note:** Crystalline silica (quartz and cristobalite); inhalation of high dust levels can cause pneumoconiosis, silicosis or pulmonary fibrosis. Listed by IARC as a Group 2A carcinogen (lung) based on limited evidence in humans and sufficient data in animals. Listed by the NTP as a substance reasonably anticipated to be a carcinogen.

## SECTION 12 - ECOLOGICAL INFORMATION

**ENVIRONMENTAL FATE:** Oxytetracycline is unstable to light and heat, it should not accumulate in the soil.

**OTHER:** This product is a pesticide. Avoid contact of spilled materials and runoff with soil and surface waterways.

## SECTION 13 - DISPOSAL CONSIDERATION

**DISPOSAL:** Do not reuse product containers. Dispose of product containers, waste containers and residues according to local, state and federal health and environmental regulations.

**Characteristic Waste:** Not Applicable

**Listed Waste:** Not Applicable

## SECTION 14 - TRANSPORT INFORMATION

**U.S. DOT (Department of Transportation) CLASSIFICATION:** Not regulated by DOT

**REPORTABLE QUANTITY (RQ):** None

**SHIPPING FREIGHT DESCRIPTION:** Insecticides or Fungicides, Agricultural, N. O. S.

**ICAO/IATA CLASSIFICATION:** Not available.

**IMDG CLASSIFICATION:** Not available.

## SECTION 15 - REGULATORY INFORMATION

**TOXIC SUBSTANCES CONTROL ACT (TSCA) CLASSIFICATION:** Exempt. Oxytetracycline is a non-hazardous, non-restricted substance. It is listed in the TSCA inventory but is not regulated. Subject to FIFRA.

**RCRA HAZARDOUS WASTE CLASSIFICATION (40 CFR 261):** Not Applicable.

**CERCLA/SARA 302 REPORTABLE QUANTITY (RQ):** None

**EPCRA SARA Title III Classification:**

Section 311/312: Acute Health Hazard & Chronic Health Hazard.

Section 313: Toxic Chemicals: Not Applicable.

## SECTION 16 - OTHER INFORMATION

**NFPA HAZARD RATINGS:** Health 1, Flammability 0, Instability 0 (0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Extreme)

**HMIS HAZARD RATINGS:** Health N/A, Flammability N/A, Reactivity N/A (0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Severe)

**IMPORTANT:** While the descriptions, data and information contained in the Material Safety Data Sheet are presented in good faith and are believed to be accurate as of the date indicated, AgroSource, Inc. makes no warranty with respect hereto and disclaims all liability from reliance thereon. The Material Safety Data Sheet is provided for guidance only. Many factors may affect the product during processing, application or use. Therefore, it is recommended that packagers, handlers and users test to determine suitability under their specific conditions.

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