

### SECTION 1: Product and Company Identification

#### 1.1. Product identifier

Trade name : BACASTAT  
Product code : EPA Reg. No. 74779-2

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/preparation : Antibiotic

##### 1.2.2. Uses advised against

No data available

#### 1.3. Details of the supplier of the safety data sheet

Rainbow Treecare Scientific Advancements  
11571 K-Tel Drive  
Minnetonka, MN 55343  
Phone: 1-(877) 272-6747 (toll free)  
[www.treecarescience.com](http://www.treecarescience.com)

#### 1.4. Emergency telephone number

Emergency number : (800)-424-9300 (CHEMTREC)

### SECTION 2: Hazards identification

#### 2.1. Hazards identification

##### GHS Labeling Elements

Hazard pictograms (CLP) :



Signal word : WARNING

Hazard statements : Causes eye irritation

Precautionary statements (prevention) : Wear eye or face protection  
Wash hands thoroughly after handling

Precautionary statements (response) : 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.

### SECTION 3: Composition/information on ingredients

Name	Product identifier	%
Oxytetracycline Hydrochloride	(CAS No.) 2058-46-0	18.3
Other Ingredients*	NA	NA

\*Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- IF SWALLOWED** : Immediately call a poison control center or doctor for treatment advice. Have 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.
- 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 the eye. Call a poison control center or doctor for treatment advice.
- IF INHALED** : Move 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 for treatment advice.
- IF ON SKIN OR CLOTHING** : Take off contaminated clothing. Immediately rinse skin with plenty of water for 15-20 minutes.
- First-aid measures – general : Have the product container, label, or Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment.

**Note to Physician:** There is no specific antidote. Treat patient symptomatically. 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

#### 5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide, dry chemical, foam, water spray.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : When heated to decomposition, material emits toxic fumes of nitrogen oxides and hydrogen chloride.
- Explosion hazard : No data available.
- Reactivity : Stable under normal conditions. Decomposed by strong alkalis.

#### 5.3. Advice for firefighters

- Firefighting instructions : Isolate the scene by removing all unprotected and non-emergency persons from the vicinity of the incident.  
Wear appropriate protective equipment including full-faced, self-contained breathing apparatus, and full protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Clean up spills immediately. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Dispose of or treat all spill residues according to applicable local, state, and federal regulations (Section 13). Use suitable protective equipment (Section 8).
- Protective equipment : Wear appropriate personal protective equipment (PPE). See Section 8. Exposure Controls/Personal Protection.
- Emergency procedures : Avoid contact with spilled material



## 6.2. Environmental precautions

This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

## 6.3. Methods and material for containment and cleaning up

**SOLID SPILL:** Carefully sweep up material (avoid creating dust) and place into an appropriate container for disposal.

**LIQUID SPILL:** Cover the entire spill with an absorbing material and follow the same procedure used for a solid spill. Scrub the area with a hard water detergent (i.e. commercial products such as Tide, Joy, etc). Pick up wash liquid with inert absorbent material and place into an appropriate container for disposal. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposal.

## SECTION 7: Handling and storage

KEEP OUT OF REACH OF CHILDREN

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid generating dust. Avoid contact with skin or eyes. Do not breathe dust or spray. Do not ingest. Use respiratory protection in the absence of adequate ventilation controls (Section 8). Wash skin thoroughly after exposure. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Keep containers closed when not in use. Clean up spills promptly (Section 6.)

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, dry place and protect from moisture. Do not store food, beverages or tobacco products in the storage area. Protect containers from damage. Store containers tightly closed. Do not store open packages. Keep out of reach of children and domestic animals.

## SECTION 8: Exposure controls/personal protection

### 8.1. Personal protective equipment

**Personal Protective Equipment (PPE):** Applicators and handlers must wear: long-sleeved shirts and long pants, shoes plus socks, chemical-resistant gloves (such as polyethylene, butyl rubber, neoprene rubber, or Viton), and protective eyewear such as goggles, face shield, or safety glasses.

### 8.2. Exposure controls

Exposure limits have not been established for this product.

**Engineering Controls:** Good general ventilation is required. Local exhaust ventilation sufficient to control dust is recommended indoors. Facilities using or storing this material should be equipped with an eyewash facility and a safety shower.

#### Individual Exposure Controls:

**EYE PROTECTION** – Chemical dust/splash goggles or full face shield are required when contact is likely. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**SKIN PROTECTION** – Wear long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC), viton).

**RESPIRATOR** – Use only in a well-ventilated area. Do not breathe dust or spray. Use MSHA/NIOSH approved dust/mist respirator with any R, P, or HE filter when working without adequate ventilation.



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Discard clothing and other absorbent materials that have been heavily contaminated with this product. Follow manufacturer's instructions for cleaning and maintaining PPE. If ~~not~~no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### USER SAFETY RECOMMENDATIONS:

1. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
2. Remove clothing immediately if this product gets inside. Then wash thoroughly and put on clean clothing.
3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Powder (solid)
Color	: Yellow
Odor	: Odorless to faint odor
pH (1%)	: 2.5 – 4.0
Melting point	: Not available
Boiling point	: Not available
Flash point	: Not available
Flammability	: Not available
Explosive limits	: Not available
Bulk density	: 42.7 lbs/cu ft (loose), 63.7 lbs/cu ft (compacted)
Vapor pressure	: Not available
Water solubility	: Soluble in water
Molecular weight	: 496.9 (Oxytetracycline hydrochloride)
Volatile components:	: (%w/w): <8% (water)

### 9.2. Other information

No additional information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Decomposed by strong alkalis.

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization is not expected to occur.

### 10.4. Conditions to avoid

Hygroscopic, protect from moisture. Sensitive to air, light, heat, and bases so protect from exposure. Keep container sealed and avoid damage.

### 10.5. Incompatible materials

Strong alkalis, oxidizers

### 10.6. Hazardous decomposition products

May emit carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas when heated.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicity values and information are based on the active ingredient or a similar but not identical formulated product:

Acute toxicity	
LD50 oral (mouse)	>5,000 mg/kg
LD50 dermal (rat)	>5,000 mg/kg
Primary eye irritation (rabbit)	: Moderately irritating
Primary skin irritation (rabbit)	: Non-irritating to slightly irritating
Skin sensitization (guinea pig)	: Non-sensitizing

### Chronic/sub-chronic toxicity

Mutagenicity	: No data available
Carcinogenicity	: No data available
Teratology (Birth defects)	: 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 in increased frequencies of skeletal and other malformations in the offspring; however, studies in mice showed no increase in congenital defects.
Specific organ toxicity	: Not available

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicological Summary

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

#### Ecotoxicity data

Ecotoxicity data are not available for BACASTAT. Active ingredient data are given below:

Ecotoxicity - Technical material	
Fish (Bluegill sunfish 96 hr.)	Acute LC50: >100 ppm Chronic NOEC: 0.183g/L fresh water
Fish (Rice fish embryo 40 day)	Chronic NOEC: 50 mg/L fresh water
Crustaceans (Brine shrimp 48 hr.)	Acute LC50: 805.99 mg/L marine water
Daphnia (D. magna -neonate 48 hr.)	Acute EC50: 114 mg/L fresh water
Daphnia (D. magna -neonate 21 day)	Chronic NOEC: 3.08 mg/L fresh water
Algae (P. subcapitata 72 hr.)	Acute EC50: 0.342 mg/L fresh water Chronic NOEC: 0.183 mg/L fresh water

### 12.2. Persistence and degradability

No data available.



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### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water when disposing of equipment wash waters or rinsate. If container is empty: offer for recycling or dispose of in sanitary landfill or by incineration if approved by State and Local authorities. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Observe all federal, state, and local regulations.

## SECTION 14: Transport information

### Ground transport (US DOT)

UN 3077; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (oxytetracycline hydrochloride); 9; III  
Exceptions: Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. This product is not regulated as a hazardous material when transported in sizes of  $\leq 5$  L or  $\leq 5$  Kg, provided the packagings meet general provisions of §§ 173.24 and 173.24a.

### Transport by sea (IMDG)

UN 3077; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (oxytetracycline hydrochloride); 9; III;  
Marine Pollutant

Exceptions: This product is not regulated as a dangerous good when transported in sizes of  $\leq 5$  L or  $\leq 5$  Kg, provided the packagings meet general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

### Air transport (IATA)

UN 3077; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (oxytetracycline hydrochloride); 9; III

Exceptions: This product is not regulated as a dangerous good when transported in sizes of  $\leq 5$  L or  $\leq 5$  Kg, provided the packagings meet general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

### Additional Air, Sea and International Transportation Information

UN-No. : 3077  
Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(oxytetracycline hydrochloride)  
Transport document description : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(oxytetracycline hydrochloride), 9, III  
Class (UN) : 9  
Hazard labels (UN) : 9



Packing group (UN) : III  
Marine Pollutant (Y/N) : Y  
Dangerous for the environment :



## SECTION 15: Regulatory information

### FIFRA Information:

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Signal word : CAUTION  
Hazard statements : Causes moderate eye irritation. Harmful if swallowed or absorbed through skin.  
Precautionary statements : Avoid contact with eyes or clothing. Do not breathe mist. Prolonged or frequently repeated exposure may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse. This material is not to be used for medical veterinary or human purposes.

**SARA 313 Regulated Chemical(s):** Not applicable

### Title III hazard classification:

Acute Health Hazard: Yes  
Chronic Health Hazard: No  
Fire: No  
Reactivity/Physical hazard: No  
Pressure: No

### CERCLA/DOT Reportable Quantities (RQ)

Not applicable.



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### SECTION 16: Other information

National Fire Protection Rating (NFPA)

HEALTH	0
FLAMMABILITY	0
REACTIVITY	0
4 = Severe   3 = Serious   2 = Moderate   1 = Slight   0 = Minimal	

#### MSDS US

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