



Safety Data Sheet

Revision date: 12/15/2022

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Rectify™
Active ingredient: Oxytetracycline Hydrochloride
CAS number: 2058-46-0
Product use: Control of bacterial diseases on agricultural crops
Section 24(c): For Distribution and Use Only in Florida
Company: AgroSource, Inc.
P.O. Box 3091
Tequesta, FL 33469
USA
Telephone: (908) 931-9001
Emergency contact: INFOTRAC
Emergency telephone: (800) 535-5053 or (352) 323-3500

SECTION 2: HAZARDS IDENTIFICATION

Classification: H361d: Suspected of damaging the unborn child
H317: May cause an allergic skin reaction
H320: Cause eye irritation

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

Hazard pictograms:



Signal word: Caution

Hazard statements: H361d: Suspected of damaging the unborn child.
H317: May cause an allergic skin reaction
H320: Cause eye irritation

Precautionary statements:

Prevention:

- P201: Obtain special instructions before using.
- P202: Do not handle until all safety precautions have been read and understood.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P264: Wash hands and clothing thoroughly after handling.
- P261: Avoid breathing dusts or mist GHS08 GHS07
- P272: Contaminated work clothing should not be allowed out of the workplace.

Reponses:

- P308 + P313: If exposed or concerned: Get medical advice/attention
- P302 +P352: If on Skin: Wash with plenty of water
- P3032 + P313: If skin irritation occurs: Get medical advice/attention.
- P362 + P364: Take off contaminated clothing and wash it before reuse
- P305 + P351 + P338: If in Eye: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313: If eye irritation persists: Get medical advice/attention.

Storage:

- P405: Store locked up

Disposal:

- P501: Dispose of content/container in accordance with local/regional/national/international regulation specified on the container label.

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Formula: $C_{22}H_{24}N_2O_9 \cdot HCl$
Molecular weight: 496.89 g/mol

Component	CAS No.	Weight %
Oxytetracycline Hydrochloride	2058-46-0	95%

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:** Hold eye open and rise slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, and then continue to rinse. Call a poison control center or doctor for treatment advice.
- Skin:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- 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:** This material is assumed to be combustible. As with all dry powders it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential buildup of static electricity.
- Special firefighting procedures:** Fireman should wear positive pressed freely 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 heated decomposition material.

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 way.
- 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

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:	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: EXPOSURE 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

Appearance and physical state:	Yellow crystalline powder; odorless
pH value:	2.3 - 2.9
Melting point:	220 C°
Specific gravity:	Approx. 0.20 gm/ml
Comparative concentration (water:1):	Not available
Quantity of heat in burning (KJ/mol):	Not available
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:	Alkalis, Oxidizers
Conditions to avoid:	Avoid exposure to heat and light.
Decomposition products:	When heated to decomposition material emits toxic fumes of NOx 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: **Oral LD50:** Mouse, 6,646 mg/kg, Practically Non-Toxic
Dermal LD50: Rabbit, >2,000 mg/kg, Slightly Toxic
Eye: Rabbit, Moderately Toxic
Skin: Rabbit, Non-Irritating
Skin: Guinea Pig, Sensitizing

Eyes: Moderate eye irritation

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

U.S. regulatory information: California Prop. 65-Development Toxicity, FIFIRA

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

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

Hazard pictograms:



GHS08 GHS07

Signal word: Caution

SECTION 16: ADDITIONAL INFORMATION

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.

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