

**RECTORSEAL**

SAFETY DATA SHEET

RECTORSEAL® ROOT DESTROYER

Destroys root growth

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name

RectorSeal® Root Destroyer

Product Codes

81394, 81559

Chemical Family

Inorganic

Use

Control of root growth in sewers

Manufacturer's Name

The RectorSeal Corporation

2601 Spenwick Drive

Houston, Texas 77055 USA

Date of Validation

January 12, 2017

Date of Preparation

January 12, 2017

HMIS Codes

Health 2

Flammability 0

Reactivity 0

PPI B

Emergency Telephone No.

Chemtrec 24 Hours

(800)-424-9300 USA

(703)-527-3887 International

Technical Service Telephone No.

(800)-231-3345 or (713)-263-8001

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW**OSHA Hazards**

Target Organ Effect, Toxic by ingestion, Irritant

Target Organs

Liver, Kidney, Blood, Liver, Kidney, Blood

GHS CLASSIFICATION

Acute toxicity, Oral (Category 3)

Acute toxicity, Dermal (Category 5)

Skin irritation (Category 2)

Eye irritation (Category 2A)

Acute aquatic toxicity (Category 1)

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GHS Label elements, including precautionary statements



GHS06: Toxic

GHS09: Environmental Hazard

Signal Word: **Danger**

Hazard Statements:

H301 - Toxic if swallowed.

H313 - May be harmful in contact with skin.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H400 - Very toxic to aquatic life.

Precautionary Statements:

P273 - Avoid release to the environment.

P301 + P310 - IF SWALLOWED: Immediately call a **POISON CENTER** or doctor/ physician.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Summary Of Acute Hazards

Corrosive to the eyes and mucous membranes. Moderately toxic dermally. Irritating to the gastric mucosa. See below for route-specific details.

Route Of Exposure, Signs And Symptoms

INHALATION

May cause irritation to mucous membranes. Avoid inhaling dust or mist. Strong irritant to the nose and throat.

EYE CONTACT

Corrosive to eyes. Exposure to the granules may cause severe eye damage. May cause severe irritation with redness, pain, and blurred vision.

SKIN CONTACT

Slight skin irritant. Excessive exposure, especially if prolonged, may cause allergic contact dermatitis. May cause irritation or burns on wet skin. Moderately toxic through skin absorption.

INGESTION

Ingestion of copper may result in irritation of the gastrointestinal tract, nausea, vomiting, salivation, gastric pain, hemorrhagic gastritis, diarrhea, capillary damage, liver and kidney damage, and central nervous system stimulation followed by depression. Jaundice, pain in the liver, and hemolytic anemia have been reported following acute human poisonings.

SUMMARY OF CHRONIC HAZARDS

Exposure to human tissue will result in irritation and chemical burns.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin or persons with chemical sensitivity may have increased susceptibility to excessive exposures.

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SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient:	Copper Sulfate
Percentage By Weight:	99
CAS Number:	7758-99-8
EC#:	231-847-6

SECTION 4 – FIRST AID MEASURES

If inhaled:	If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.
If on skin:	Flush with large amounts of water. If irritation or burns occur, seek immediate medical attention.
If in eyes:	Flush with large amounts of water for at least 15 minutes. Get medical attention if irritation persists.
If swallowed:	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Use agents suitable for surrounding fires.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus (SCBA) and other protective clothing. Hazardous decomposition products possible (see Section 10). Dike area as run-off may create additional environmental contamination.

Unusual Fire And Explosion Hazards: Thermal decomposition may release toxic fumes and/or hazardous gases. Sulfur trioxide occurs above 1200°F (650°C).

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled: Keep people away. Wear chemical protective clothing. Sweep up and place in an appropriate chemical waste container for disposal.

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SECTION 7 – HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storing: Store in a clean, dry area. Do not store near feed, food or within the reach of children.

Other Precautions: Do not reuse empty containers.

KEEP OUT OF REACH OF CHILDREN.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient	Units
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Copper Sulfate

ACGIH TLV:	1 mg/m3
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OSHA PEL:	N/D
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Respiratory Protection (Specify Type): In confined, poorly ventilated areas, use NIOSH/MSHA approved dust and mist respirator. None required for normal use in adequately ventilated areas where TLV is not exceeded.

Ventilation – Local Exhaust: Acceptable

Special: N/A

Mechanical (General): Preferable

Other: N/A

Protective Gloves: Wear rubber or neoprene gloves.

Eye Protection: Chemical splash goggles (ANSI Z-87.1 or equivalent)

Other Protective Clothing Or Equipment: Coveralls recommended.

Work/Hygienic Practices: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling point:	Dehydrates at 482°F (250°C)
Specific gravity (H2O = 1):	2.284
Vapor pressure (mmHg):	N/A
Melting point:	N/A
Vapor Density (Air = 1):	N/A
Evaporation rate (Ethyl Acetate = 1):	N/A
Appearance/Odor:	Blue granules/No odor
Solubility in water:	Soluble
pH:	4.8
Volatile Organic Compounds (VOC) Content (theoretical percentage by weight):	0% or (0 g/L)

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Flash point:	None
Lower explosion limit:	None
Upper explosion limit:	None

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: Heat, sparks, open flames.

Incompatibility (Materials To Avoid): Hydroxylamine.

Hazardous Decomposition Products: Sulfur trioxide occurs above 1200°F (650°C).

Hazardous Polymerization: Will not occur.

SECTION 11 – TOXICOLOGY INFORMATION

Chronic Health Hazards

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Toxicology Data

Ingredient Name

Copper Sulfate

Oral-Rat LD50:	300 mg/kg
Inhalation-Rat LC50:	N/D

SECTION 12 – ECOLOGICAL INFORMATION

Ecological Data

Ingredient Name:	Copper Sulfate
Food Chain Concentration Potential	N/A
Waterfowl Toxicity	N/A
BOD	None
Aquatic Toxicity	3.8 ppm/24 hr/rainbow trout/TLm

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Classification: Non-regulated

Disposal Method: Landfill solids at approved sites. Dispose of in accordance with all local, state and federal regulations.

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SECTION 14 – TRANSPORTATION INFORMATION

DOT: Limited Quantities or Ltd Qty

Ocean (IMDG): UN3077, Environmentally Hazardous Substance, solid, n.o.s., (cupric sulfate), Class 9, PG III, EMS-No: F-A, S-F, Marine pollutant

Air (IATA): UN3077, Environmentally Hazardous Substance, solid, n.o.s., (cupric sulfate), Class 9, PG III, ERG #171

SECTION 15 – REGULATORY INFORMATION

Regulatory Data

Ingredient Name:	Copper Sulfate
SARA 313	N/A
TSCA Inventory	Yes
CERCLA RQ	10 lb.
RCRA Code	N/A

SECTION 16 – OTHER INFORMATION

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made.

Consult RectorSeal for further information: (713) 263-8001