

MATERIAL SAFETY DATA SHEET

MSDS 0095

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

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
VALIDATION DATE August 4, 2009
REVISION DATE August 4, 2009

HMIS CODES
Health 2
Flammability 0
Reactivity 1
PPI E

EMERGENCY TELEPHONE NO.
Chemtrec 24 Hours
(800) 424-9300

TECHNICAL SERVICE TELEPHONE NO.
(800) 231-3345

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS
99	7758-99-8	Copper Sulfate	
		ACGIH TLV	1 mg/m3
		OSHA PEL	N/D

Section 3 -- HAZARDS IDENTIFICATION

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.

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

FLASH POINT	LEL	UEL
None	N/A	N/A

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 above 1200F (650C).

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.

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

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: Rubber or neoprene

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 482F (250C)
SPECIFIC GRAVITY (H2O = 1):	2.284
VAPOR PRESSURE (mm Hg):	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

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Section 10 -- STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID: Heat, sparks, open flames.
INCOMPATIBILITY (MATERIALS TO AVOID): Hydroxylamine.
HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur trioxide above 1200F (650C)
HAZARDOUS POLYMERIZATION: Will not occur.

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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

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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

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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: Consumer Commodity (ORM-D)
OCEAN (IMDG): Environmentally Hazardous Substance, solid, n.o.s., (cupric
sulfate), Class 9, UN 3077, PG III IMDG#9029 (MARINE POLLUTANT)
AIR (IATA): Environmentally Hazardous Substance, solid, n.o.s., (cupric sulfate),
Class 9, UN 3077, PG III
WHMIS (CANADA): Class E

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Section 15 -- REGULATORY INFORMATION

REGULATORY DATA
Ingredient Name

Copper Sulfate
SARA 313 No
TSCA Inventory Yes

CERCLA RQ 10 lb.
RCRA Code N/A

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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