

Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name **DRAIN CARE ROOT KILL**

Product Code **ERK**

Date of issue **01/26/06** **Supersedes**

This product is a registered pesticide. Number: 56576-1-40849

Emergency Telephone Numbers **For a Medical Emergency:**
 INFOTRAC
 (877) 541-2016 (Toll Free - Calls Recorded)

For a Transportation Emergency:
 CHEMTREC
 (800) 424-9300 (Toll Free - Calls Recorded)

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 1420 Seaboard Industrial Blvd.
 Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
Copper Sulfate Pentahydrate; Cupric Sulfate; Blue Vitriol	7758-99-8	99	OSHA PEL (United States). TWA: 1 mg/m ³ 8 hour(s). Form: Dusts and Mists ACGIH TLV (United States). TWA: 1 mg/m ³ 8 hour(s). Form: Dusts and Mists

Section 3. Hazards Identification

Acute Effects **Routes of Entry** Dermal contact. Eye contact. Inhalation.

Skin Direct contact may cause irritation and redness. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. May cause skin sensitization.

Eyes Eye contact can result in corneal damage or blindness. Inflammation of the eye is characterized by redness, watering, and itching.

Inhalation Avoid breathing dust. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Over-exposure by inhalation may cause respiratory irritation.

Ingestion May be fatal if swallowed. Can cause gastrointestinal disturbances.

HMIS

Health	3
Fire Hazard	0
Reactivity	0
Personal Protection	C

Carcinogenic Effects Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects The substance is toxic to kidneys and the nervous system. Repeated or prolonged exposure to the substance can produce target organs damage. Prolonged or repeated contact may dry skin and cause irritation.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Not applicable.	Flammable Limits	Not applicable.
Flammability	Non-flammable.		
Fire Hazard	May emit toxic fumes under fire conditions.		
Fire-Fighting Procedures	Use an extinguishing agent suitable for surrounding fires. Do not release runoff from fire to sewers or waterways.		

**Section 6. Accidental Release Measures**

Spill Clean up	Put on appropriate personal protective equipment (see Section 8). Sweep up and place in suitable clean, dry containers for reclamation or later disposal.
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Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Avoid the inhalation of dust, particulates and spray mist arising from the application of this preparation. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Apply this product only as specified on the label. Do not reuse product container. After contact with skin, wash immediately with plenty of water.
Storage	Keep container dry and tightly closed. Keep container in a cool, well-ventilated area. Store copper sulfate in stainless steel, fiberglass, polypropylene, PVC's or plastic equipment. Keep away from galvanized pipe and nylon equipment. Contains moisture sensitive material; store in a dry place. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection**Personal Protection****Protective Clothing (Pictograms)**

Eyes	Safety glasses.
Body	Gloves. Synthetic apron. Wear apron or coverall if potential for exposure to splashes.
Respiratory	Avoid breathing dust. Wear appropriate respirator when ventilation is inadequate.

**Section 9. Physical and Chemical Properties**

Physical State	Solid. (Crystals.)	Color	Blue.
pH	Not applicable.	Odor	Odorless.
Boiling Point	560°C (1040°F)	Vapor Pressure	Not applicable.
Specific Gravity	2.284 (Water = 1)	Vapor Density	>1 (Air = 1)
Solubility	Soluble in cold water, hot water.	Evaporation Rate	Not applicable
		VOC (Consumer)	Not applicable

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive with metals, alkalis, moisture. Incompatible with aluminum and magnesium.
Hazardous Polymerization	Not available.
Hazardous Decomposition Products	Cupric oxide and sulfur oxides (SO ₂ , SO ₃ ...)

Section 11. Toxicological Information

Toxicity to Animals	Copper Sulfate Pentahydrate:
	ORAL (LD50): Acute: 352 mg/kg [Rat].
	DERMAL (LD50): Acute: >5050 mg/kg [Rabbit].

Section 12. Ecological Information

Ecotoxicity	Toxic to aquatic organisms.
Biodegradable/OECD	Not available.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Non-regulated waste
Consult your local or regional authorities.	

Section 14. Transport Information

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cupric Sulfate) or Consumer Commodity ORM-D in Limited Quantity
DOT Classification	Class 9: Miscellaneous hazardous material.
UN number	UN 3077
TDG Classification	TDG Class 9.2: Environmentally hazardous material.

Section 15. Regulatory Information

U.S. Federal Regulations	SARA 313 toxic chemical notification and release reporting: Copper Sulfate Pentahydrate Clean Water Act (CWA) 311: Copper Sulfate Pentahydrate (RQ 10 lbs) Clean air act (CAA) 112 regulated toxic substances: No products were found.
State Regulations	California prop. 65: No products were found.
WHMIS (Canada)	Class D-1B: Material causing immediate and serious toxic effects (TOXIC). Class D-2B: Material causing other toxic effects (TOXIC). Class E: Corrosive solid.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.