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ep Commercial Sales & Service A unit of Zep Inc. P.O. Box 1060 Cartersville, GA 30120 -888-805-HELP (4357) www.zepcommercial.com

# **Material Safety Data Sheet**

**Root Kill** 

# Section 1. Chemical Product and Company Identification

Product name	Zep
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Product code

**ZROOT2** 03/11/11

Date of issue

Supersedes 12/22/06

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This product is a registered pesticide. EPA ID No. 56576-1-40849

### **Emergency Telephone Numbers**

# For MSDS Information:

Compliance Services 404-352-1680

#### For Medical Emergency

(877) 541-2016 Toll Free - All Calls Recorded

#### For Transportation Emergency

CHEMTREC: (800) 424-9300 - All Calls Recorded In the District of Columbia (202) 483-7616

# **Prepared By**

**Compliance Services** 1420 Seaboard Industrial Blvd. Atlanta, GA 30318

# Section 2. Hazards Identification

**Emergency overview** \*Hazard Determination System (HDS): Health, Flammability, Reactivity DANGER 3

CAUSES EYE BURNS. CAUSES RESPIRATORY TRACT AND SKIN IRRITATION. HARMFUL OR FATAL IF SWALLOWED.

Apply this product only as specified on the label.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

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

- Causes eye burns. Direct contact with the eyes can cause irreversible damage, including Eves blindness.
- Skin Causes skin irritation. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering. May cause skin sensitization.
- Inhalation Do not breathe dust. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. May cause irritation of respiratory tract, coughing, shortness of breath. Over-exposure by inhalation may cause respiratory irritation.
- Ingestion May be fatal if swallowed. May cause burns to mouth, throat and stomach.

**Chronic effects** Contains material which causes damage to the following organs: kidneys, the nervous system.

No known significant effects or critical hazards.

# **Product/ingredient name**

Not available.

#### Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients		
Name of Hazardous Ingredients	CAS number	<u>% by Weight</u>
Copper Sulfate Pentahydrate; Cupric Sulfate; Blue Vitriol	7758-99-8	99

# Section 4. First Aid Measures

Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.
Skin Contact	Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Get medical attention if irritation develops.
Inhalation	Move exposed person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. If affected person is conscious, give plenty of water to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Product code ZROOT2 Material Safety Data Sheet Product Name Zep Root Kill National Fire Protection Association (U.S.A.) Section 5. Fire Fighting Measures Not available. Flash Point Not available. Flammable Limits Flammability Non-flammable. May emit toxic fumes under fire conditions. Flammable hydrogen gas may be produced on **Fire hazard** prolonged contact with metals such as aluminum, tin, lead and zinc. **Fire-Fighting** Use an extinguishing agent suitable for the surrounding fire. Do not release runoff from fire to drains or watercourses. Procedures Section 6. Accidental Release Measures Put on appropriate personal protective equipment (see section 8). Move containers from spill area. Vacuum or Spill Clean up sweep up material and place in a designated, labeled waste container. Section 7. Handling and Storage Handling Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust. Observe label precautions. Empty containers retain product residue and can be hazardous. Do not reuse container. Wash thoroughly after handling. Storage Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Contains moisture-sensitive material. Store in a dry place. Do not store in unlabeled containers. Keep out of the reach of children. Section 8. Exposure Controls/Personal Protection **Product name** Exposure limits Copper Sulfate Pentahydrate; Cupric Sulfate; Blue Vitriol **OSHA PEL (United States).** TWA: 1 mg/m3 8 hour(s). Form: Dusts and mists ACGIH TLV (United States). TWA: 1 mg/m3 8 hour(s). Form: Dusts and mists Personal Protective Equipment (PPE) **Eyes** Safety glasses. Body Wear appropriate protective clothing to prevent skin contact. Recommended: Neoprene gloves. Nitrile gloves. Synthetic apron. Respiratory Avoid breathing dust. If dust is generated and ventilation is inadequate, use respirator that will protect against dust/mist. Section 9. Physical and Chemical Properties **Physical State** Solid. (Crystals.) Color Blue. Odor Odorless. pH Not available. 560°C (1040°F) Vapor Pressure Not available. **Boiling Point Specific Gravity** Vapor Density >1 [Air = 1] 2.284 Solubility Soluble in the following materials: cold water and Evaporation Rate Not applicable hot water. **VOC** (Consumer) Not applicable Section 10. Stability and Reactivity **Stability and Reactivity** The product is stable. Incompatibility Incompatible with aluminum and magnesium. Reactive or incompatible with the following materials: metals and alkalis. **Hazardous Polymerization** Will not occur. Hazardous Decomposition Products copper, sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub> etc.) Section 11. Toxicological Information **Acute Toxicity** Exposure **Product/ingredient name** Result **Species** Dose Copper Sulfate Pentahydrate LD50 Dermal >5050 mg/kg Rabbit LD50 Oral Rat 352 mg/kg

Product code ZROOT2	Material Safety Data Sheet	Product Name Zep Root Kill
Section 12. Ecological In	formation	
Environmental Effects Aquatic Ecotoxicity	Toxic to aquatic organisms.	
Not available		

Not available.

#### Section 13. Disposal Considerations

## Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Non-regulated waste

#### Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	UN 3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cupric Sulfate) or Consumer commodity ORM-D in Limited quantity		111	
TDG Classification	Not available.				
IMDG Class	Not determined.				

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG\* : Packing group

#### Section 15. Regulatory Information

#### **U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

Product name

Copper Sulfate Pentahydrate

## Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: Copper Sulfate Pentahydrate (RQ 10 lbs)

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

All Components of this product are listed or exempt from listing on TSCA Inventory.

United States inventory (TSCA 8b): Not determined.

# State Regulations

Oswada	
<u>Canada</u>	
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 material

### 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.

\*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.