

ROOT ENDZ

Date Prepared – 01/03/03

IDENTITY (As Used on Label and List)

Roebic Root Endz, REZ

Person Preparing Document - David Lawler

Section 1**Manufacturer's name**

Roebic Laboratories, Inc.

Address (Number, Street, City, State, and ZIP Code)

25 Connair Road, PO Box 927

Orange, CT 06477

Emergency Telephone Number

CHEMTREC 1-800-424-9300

Telephone Number for Information

1-203-795-1283

Section 2 – Hazardous Ingredients / Identity Information**Hazardous Components (Specific Chemical Identity; Common Name(s)):****INGREDIENTS****CAS NUMBER****PERCENT**Copper Sulfate Pentahydrate (CuSO₄·5H₂O)

7758-98-7

19.8%

Water

7732-18-5

80.2%

Section 3 - Physical / Chemical Characteristics**Boiling Point** - 100°C**Vapor Pressure (mm Hg.)** – N/A**Vapor Density (AIR = 1)** – N/A**Solubility in Water** – 100%**Specific Gravity (H₂O = 1)** – 1.14**Melting Point** – N/A**pH** – 2.9**Evaporation Rate (Butyl Acetate = 1)** –**Appearance & Odor** – Royal blue solution.**Section 4 - Fire & Explosion Hazard Data****Flash Point Method Used** – N/A**Extinguishing Media** – Copper sulfate does not burn, nor will it support combustion. If stored with other combustible products, use water, CO₂ or dry chemical.**Special Fire Fighting Procedures** – If dry heated above 600°C, SO₂ is evolved. If water is used, it will solubilize the CuSO₄·5H₂O, and care should be used to keep such water out of streams or other water bodies.**Unusual Fire & Explosion Hazards** – None**Flammable Limits** – N/A **LEL** **UEL****Section 5 - Reactivity Data****Stability** – Stable**Incompatibility (Materials to Avoid):** Solutions are corrosive to mild steel. Store solutions in plastic, rubber, 304, 347, or 316 stainless steel.**Hazardous Polymerization** – Will not occur.**Conditions to Avoid** – N/A

ROOT ENDZ**Section 5 – Reactivity Data**

Hazardous Decomposition of By-products – None at normal process temperatures and pressures. If product is heated above 1100°F (600°C) sulfur dioxide (SO₂) may be released.

Conditions to Avoid – N/A

Section 6 - Health Hazard Data

Route(s) of Entry: Inhalation? Yes Skin? No Ingestion? Yes Eye? Yes

Health Hazards (Acute & Chronic):

Chronic – Prolonged over ingestion might increase liver copper content.

Acute - Skin Contact: N/A

Eye Contact: Corrosive in accordance with FHSLA regulations.

Ingestion: Toxic orally in accordance with FHSLA regulations.

Inhalation: Produces irritation by inhalation, in accordance with FHSLA regulations.

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?

Signs & Systems of Exposure:

Dermal:

Eyes:

Inhalation:

Ingestion:

Medical Conditions Generally Aggravated by Exposure –

Emergency & First Aid Procedures:

Skin Contact: Wash or shower thoroughly with water. Remove and wash contaminated clothing before reuse.

Eye Contact: Flush immediately with plenty of water for at least 15 minutes, hold eyelids apart during irrigation. Seek medical attention.

Ingestion: Drink a large quantity of water or milk. Get medical attention. **Notes to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

Inhalation: Remove worker from exposure and seek medical aid.

Section 7 - Precautions for Safe Handling & Use

Steps to be taken in case material is released or spilled:

Contact appropriate local, state, or federal pollution control officials if warranted, especially if spilled into public waters. If spill is confined to the use site, neutralize with lime or soda ash and use absorbent and remove to approved landfill.

Waste Disposal Method: If product is in confined solution, introduce lime or soda ash to form insoluble copper salts and then dispose of in an approved landfill.

Precautions to be taken in handling and storing: No special precautions are known other than those stated on the bottle and in this Material Safety Data Sheet. Under some conditions copper sulfate dust may be irritating to the skin of some individuals. Problem use conditions seem to be aggravated by high humidity and sweating when copper sulfate is applied undiluted and dust contact occurs.

Other Precautions: Store product in a dry place.

Section 8 - Control Measures

Respiratory Protection (Specify Type): If TWA for all copper mists exceeds acceptable limits in the workplace, appropriate ventilation should be provided or respiratory protective equipment must be provided.

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Section 8 – Control Measures (continued)

Ventilation: Local Exhaust?

Mechanical (General)?

Special?

Other?

Eye Protection: Chemical goggles should be worn when handling the product.

Work / Hygienic Practices:

Protective Gloves: Rubber gloves may be worn.

Other Protective Clothing or Equipment: No special protective clothing or equipment required.