



# Safety Data Sheet

## ROOT OUT

### Section 1 - Chemical Product and Company Identification

**Supplier's Information:**

**Superco Specialty Products**

25041 Anza Drive  
Valencia, CA 91355  
(661) 775-8877

**Product Name:** ROOT OUT

**Product Code:** 70432

**Date of Issue:** January 4, 2016

**Use Dilution Information:** Use at full Strength

### Section 2 - Hazard Identification

**Product as a Concentrate**

**GHS Overview:**

Acute toxicity, skin irritation, eye irritation, skin sensitization, acute aquatic toxicity

**GHS Label Elements:**

**Signal Word:** Warning

**Symbol:**



**Hazard Statements:**

H303 May be harmful if swallowed

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H400 Very toxic to aquatic life

**Precautionary Statements**

H273 Avoid release to the environment

P280 Wear protective gloves

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

**Potential Health Effects**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin:** May be harmful if absorbed through the skin. Causes irritation.

**Eyes:** Causes eye irritation.

**Ingestion:** May be harmful if swallowed.

### Section 3 - Composition / Information on Ingredients

#### Product as a Concentrate

Hazardous Ingredients	Concentration Range	CAS Number
Copper Sulfate Pentahydrate	Main Constituent	7759 - 99 - 08

### Section 4 - First Aid Procedures

#### Product as a Concentrate:

**Skin Contact:** If skin comes in contact with product: Flush exposed area with cool water for 15 minutes. Consult a physician if irritation persists.

**Eye Contact:** If this product comes in contact with eyes, flush eyes with luke warm water for 30 minutes and consult a physician if irritation persists.

**Ingestion: INDUCE VOMITING.** Have patient drink large amounts of milk or plain water. Consult a physician immediately.

**Inhalation:** Remove to clean atmosphere and consult physician immediately

#### Protection of First Responders:

No action shall be taken involving personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth to mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### Note to Physician:

Treat symptomatically. Contact poison treatment specialist if large quantities have been ingested or inhaled.

### Section 5 - Fire Fighting Information

#### Product as a Concentrate:

**Conditions of Flammability:** Non Flammable in the presence of source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface.

**Suitable Fire Extinguishing Media:** Use dry chemical or carbon dioxide.

**Hazardous Thermal Decomposition Products:** Hazardous decomposition products formed under fire conditions: Carbon oxides.

**Specific Fire - Fighting Methods:** Promptly isolate the scene by removing all persons from the area if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special Protective Equipment for Firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further Information:** Use water spray to cool unopened containers

## Section 6 - Accidental Spill Procedures

### Product as a Concentrate:

**Personal Precautions:** Initiate company's spill response procedures immediately. Keep people out of the area. Put on appropriate personal protective equipment (See Section 8). Do not touch or walk through spilled material.

**Environmental Precautions:** Avoid contact with spilled material and prevent runoff contact with soil and surface waterways.

**Methods for Cleaning Up:** Follow company's spill response procedures. Keep people away from spill area. Put on appropriate personal protective equipment (See Section 8). Absorb / Neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a water rinse for a final clean-up.

## Section 7 - Handling and Storage

### Product as a Concentrate

**Handling:** Do not get in eyes, on skin, or on clothing. Do not breathe vapor or fumes. Use only in adequately ventilated areas. Wash thoroughly after handling.

**Storage:** Keep out of the reach of children. Keep container tightly closed. Store between the following temperatures: -25oC and 40oC.

## Section 8 - Exposure Controls / Personal Protection

### Control Parameters:

#### Ingredients Name

Copper Sulfate Pentahydrate

#### Exposure Limits

ACGIH TLV: 1 mg/m<sup>3</sup>

NIOSH TWA: 1 mg/m<sup>3</sup>

**Engineering Controls:** Use only in adequate ventilation. If user operations generate dust, fumes, gas, vapor, or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

## Section 8 - Exposure Controls / Personal Protection

### Exposure Guidelines

<b>Eye Protection:</b>	Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US or EN 166 (EU).
<b>Hand Protection:</b>	Use chemical resistant, impervious gloves.
<b>Skin Protection:</b>	Complete suit protecting against chemicals, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance.
<b>Respiratory Protection:</b>	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEEN (EU)
<b>Hygiene Measures:</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using lavatory and at the end of working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Section 9 - Physical and Chemical Properties

### Product as a Concentrate:

<b>Physical State:</b>	Solid Crystals
<b>Color:</b>	Blue
<b>Odor:</b>	Bland
<b>pH:</b>	3.7 - 4.2 in 10% Solution
<b>Flash Point:</b>	None
<b>Explosion Limits:</b>	None
<b>Flammability:</b>	None
<b>Melting Point:</b>	Not Determined
<b>Boiling Point:</b>	Not Determined
<b>Evaporation Rate:</b>	Not Determined
<b>Vapor Pressure:</b>	None
<b>Vapor Density:</b>	None
<b>Specific Gravity:</b>	0.88 +/- 0.02
<b>Solubility:</b>	Soluble
<b>Viscosity:</b>	Not Applicable
<b>Autoignition Temp:</b>	440°F

## Section 10 - Stability and Reactivity

### Product as a Concentrate

**Stability:** Stable under recommended storage condition

**Possibility of Hazardous Reactions:** To prevent oxidation prevent long term exposure to air. If storing in a partially filled container fill headspace with an inert gas such as nitrogen.

**Conditions to Avoid:** Heat, flame, sparks

**Materials to Avoid:** Extremely reactive or incompatible materials such as acids.

Reactive or incompatible with the following materials: Oxidizers.

Slightly reactive or incompatible with the following materials: Metals.

**Hazardous Decomposition Products:** Hazardous decomposition products formed under fire conditions. Carbon oxides.

## Section 11 - Toxicological Information

**Routes of Exposure:** Skin Contact, Eye Contact, Inhalation, Ingestion.

### Product as a Concentrate

#### Symptoms

**Skin Contact:** Adverse symptoms may include the following: Pain or irritation, redness, rash. Blistering may occur.

**Eye Contact:** Adverse symptoms may include the following: Pain or irritation, redness, watering.

**Inhalation:** Adverse symptoms may include the following: Coughing, respiratory tract irritation.

**Ingestion:** Adverse symptoms may include the following: Stomach pains, diarrhea.

#### Acute Effects

Copper containing compounds have been shown to have high oral toxicity (LD50 > 1 mg/kg) and low dermal toxicity (LD50 > 5g/kg) when tested on rabbits. Copper containing compounds also showed high toxicity by inhalation (RD50 > 1g/kg) when tested on mice. The skin irritancy of Copper containing compounds in guinea pigs and rabbits is considered moderate and high, respectively. Inhalation may cause irritation of the nose, throat, and respiratory tract.

#### Chronic Effects

This product is not classified as a carcinogen by OSHA, IARC, ACGIH, or NTP. This product has not been shown to produce genetic changes when tested on bacterial or animal cells. This product does not contain known reproductive or developmental toxins. Prolonged or repeated exposures can cause drying or dermatitis of skin. Improper storage and handling may lead to the formation of a possible skin sensitizer.

## Section 12 - Ecological Information

### Product as a Concentrate

**Ecotoxicity:** There is no information available at this time for this product. However, a spill may produce significant toxicity to aquatic organisms and ecosystems. Some studies have shown that certain bacteria and fungi have the ability to degrade copper compounds, decreasing their toxicity to fish. When spilled, this product may act as a biocide, algae growth at or beneath the surface of a body of water.

**Persistence/Degradability:** Product is expected to be readily biodegradable.

Bioaccumulation/Accumulation: Not established

Mobility in Environment: Not established

### Aquatic and Terrestrial Toxicity

Product / Ingredient Name	Results	Species	Exposure
Copper Sulfate Pentahydrate	Acute LC50 - 0.96 - 1.88 mg/l	Rainbow Trout	96 Hours
	Acute LC50 - 960 mg/kg	Rat	24 Hours

**Other Adverse Effects:** No known significant effects or critical hazards.

## Section 13 - Disposal Methods & Considerations

### Product as a Concentrate

**Disposal Methods:** Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with all local, State, and Federal regulations.

**RCRA Classification:** None

## Section 14 - Transportation Information

### DOT (U.S. Department of Transportation)

**UN Number:** UN3077

**Proper shipping name:** Environmentally hazardous Substances, Solid, NOS

**Hazard Class:** 9

**Packaging Group:** III

### IMO / IMDG

**UN Number:** UN3077

**MO / IMDG Proper Shipping Name:** Environmentally hazardous Substances, Solid, NOS

### IATA

**UN Number:** UN3077

**IMO / IMDG Proper Shipping Name:** Environmentally hazardous Substances, Solid, NOS

**Hazard Class:** 9

**Packaging Group:** III

## Section 15 - Regulatory Information

### Product as a Concentrate

#### U.S. Federal Regulations

**TSCA 8(b) Inventory:** All components are listed or exempt.

**SARA 302/304/311/312 Extremely Hazardous Substances:** No Listed Substances.

**SARA 313 Product Names CAS Number Concentration:**

Copper Sulfate Pentahydrate 7759 - 99 - 08

**California Prop. 65**

No Listed Substances.

**Proposition 65: California Safe Drinking Water and Toxic Information Act of 1986**

This product is not known to contain an chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

**SARA Title III (Section 313)**

This substance contains no material s subjecct to the preoting requirements of SARA Title III (Section 313)

**Section 16 - Other Information**

Hazardous Material Information System (U.S.A.)

**NFPA RATING**

- 0 = Non-Hazardous
- 1 = Slight Hazard
- 2 = Hazardous
- 3 = Extreme Hazard
- 4 = Deadly



National Fire Protection Association (U.S.A.)

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>REACTIVITY</b>	<b>0</b>
<b>PERSONAL</b>	<b>B</b>

Date of Issue: January 4, 2016

Prepared By: SHC

**Note to Reader:**

This above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.