

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 4/13/2015 Revision date: 5/26/2023 Version: 1.1

# **SECTION 1: Identification**

1.1. Identification	
Product form Trade name CAS-No. Formula Synonyms	<ul> <li>Substance</li> <li>ROOT DESTROYER</li> <li>7758-99-8</li> <li>Cu.H2O4S.5H2O</li> <li>Copper(II) sulfate, pentahydrate (1:1:5) / Sulfuric acid, copper(2+) salt, pentahydrate / Copper sulphate pentahydrate / Copper sulphate, pentahydrate / Copper sulfate pentahydrate / Copper(II) sulfate, pentahydrate / Copper(II) sulfate pentahydrate / Calcanthite / Copper(II) sulfate pentahydrate (1:1:5) / Cupric sulphate pentahydrate / Copper(II) sulphate pentahydrate / Cupic sulfate / Copper sulfate / Cupric sulfate / Copper sulphate / cupric sulfate</li> </ul>
1.2. Recommended use and rest	rictions on use
Use of the substance/mixture	: Septic Maintenance Product

#### 1.3. Supplier

Sanco Industries, Inc. 1819 S. Calhoun Street Fort Wayne, IN 46802 Phone: 260-426-6281 Toll Free: 888-697-2626

#### **1.4. Emergency telephone number**

Emergency number

: 24 Hour Contact - CHEMTREC 1-800-424-9300

# SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

## **GHS US classification**

Acute toxicity (oral) Category 4	H302	Harmful if swallowed
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2A	H319	Causes serious eye irritation
Full text of H statements : see section 16		

### 2.2. GHS Label elements, including precautionary statements

### GHS US labeling

Hazard pictograms (GHS US)

Signal word (GHS US) Hazard statements (GHS US)

Precautionary statements (GHS US)

: Warning : H302 - Harmful if swallowed H315 - Causes skin irritation

- H319 Causes serious eye irritation
- : P264 Wash hands, forearms and face thoroughly after handling.
  - P270 Do not eat, drink or smoke when using this product.
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P301+P312 If swallowed: Call a poison center or doctor if you feel unwell.
  - P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing. P330 - Rinse mouth. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

## **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Name	Product identifier	%	GHS US classification
Sulfuric acid, copper(2+) salt (1:1), pentahydrate (Main constituent)	CAS-No.: 7758-99-8		Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	<ul> <li>Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell. Call a poison center/doctor/physician if you feel unwell.</li> </ul>
4.2. Most important symptoms and effect	cts (acute and delayed)
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed.
Symptoms/effects after skin contact	: Causes skin irritation. Irritation.
Symptoms/effects after eye contact Symptoms/effects after ingestion	<ul><li>Causes serious eye irritation. Eye irritation.</li><li>Swallowing a small quantity of this material will result in serious health hazard.</li></ul>

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing	g media		
Suitable extinguishing media Unsuitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand. : Do not use a heavy water stream.		
5.2. Specific hazards arising from the chemical			
Fire hazard Hazardous decomposition products in case of fire	<ul> <li>If heated above 400°C, this product can decompose to emit toxic sulfur fumes.</li> <li>Toxic fumes may be released.</li> </ul>		
5.3. Special protective equipment and prec	autions for fire-fighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective	equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.	
6.1.2. For emergency responders		
Protective equipment	Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".	
Emergency procedures	: Ventilate area.	

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	: Mechanically recover the product. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.	
Other information	: Dispose of materials or solid residues at an authorized site.	

## 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and stora	ge
7.1. Precautions for safe handling	
Precautions for safe handling	Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Always wash hands after handling the product.

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7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions       :         Incompatible products       :         Incompatible materials       :	Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. Strong bases. Strong acids. Sources of ignition. Direct sunlight Moisture Solutions are mildly corrosive to steel. Store solutions in plastic or rubber or 304, 347, or 316 stainless steel. Strong bases.	
SECTION 8: Exposure controls/personal	protection	
8.1. Control parameters		
ROOT DESTROYER (7758-99-8)		
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA	1 mg/m <sup>3</sup>	
8.2. Appropriate engineering controls		
	Ensure good ventilation of the work station. Avoid release to the environment.	
8.3. Individual protection measures/Personal	protective equipment	
Personal protective equipment: Avoid all unnecessary exposure.		
Hand protection:		
Wear protective gloves.		
Eye protection:		
Chemical goggles or safety glasses. Safety glasses		
Skin and body protection:		
Wear suitable protective clothing		
Respiratory protection:		
Wear appropriate mask		
Other information: Do not eat, drink or smoke during use.		
SECTION 9: Physical and chemical prope	erties	
9.1. Information on basic physical and chemi	cal properties	
Physical state : Appearance :	Solid Crystals/Powder.	

Color : Blue Odor : None Odor threshold : No data available pН : 3.7 – 4.2 10% Solution pH solution : 3.7 - 4.2 10% solution Melting point : No data available Freezing point : Not applicable Boiling point : No data available Flash point : Not applicable

Relative evaporation rate (butyl acetate=1)

: No data available

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#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Not established.

**10.3. Possibility of hazardous reactions** 

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Moisture

**10.5. Incompatible materials** 

Solutions are mildly corrosive to steel. Store solutions in plastic or rubber or 304, 347, or 316 stainless steel. Strong bases.

**10.6. Hazardous decomposition products** 

If dry heated above 600°C, toxic sulfur may evolve..

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul><li>Harmful if swallowed.</li><li>Not classified</li><li>Not classified</li></ul>
ROOT DESTROYER (7758-99-8)	
LD50 oral rat	960 mg/kg
LD50 dermal rabbit	> 8 g/kg
ATE US (oral)	960 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation. pH: 3.7 – 4.2 10% Solution
Serious eye damage/irritation	: Causes serious eye irritation. pH: 3.7 – 4.2 10% Solution

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Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met. Harmful if swallowed.
symptoms	
Symptoms/effects after skin contact	: Causes skin irritation. Irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation. Eye irritation.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
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# SECTION 12: Ecological information

12.1. Toxicity	
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Ecology - general :	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
ROOT DESTROYER (7758-99-8)	
LC50 - Fish [1]	0.66 – 1.15 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [semi-static])
EC50 - Crustacea [1]	0.147 – 0.227 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 - Fish [2]	0.96 – 1.8 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

## 12.2. Persistence and degradability

ROOT DESTROYER (7758-99-8)		
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
ROOT DESTROYER (7758-99-8)		
Bioaccumulative potential	Not established.	
12.4. Mobility in soil		
No additional information available		

# 12.5. Other adverse effects

Other information

: Avoid release to the environment.

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods Product/Packaging disposal recommendations Ecology - waste materials	<ul> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Dispose in a safe manner in accordance with local, state, and federal regulations.</li> <li>Avoid release to the environment.</li> </ul>

# **SECTION 14: Transport information**

In accordance with DOT Transport document description

: UN3077 Environmentally hazardous substances, solid, n.o.s. (CUPRIC SULFATE, Reportable Quantity (RQ) 10 lbs), 9, III

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UN-No.(DOT)	: 3077
DOT NA no.	: UN3077
DOT Proper Shipping Name	: Environmentally hazardous substances, solid, n.o.s. CUPRIC SULFATE, Reportable Quantity (RQ) 10 lbs
Department of Transportation (DOT) Hazard Classes	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)
DOT Symbols	: G - Identifies PSN requiring a technical name
Packing group (DOT)	: III - Minor Danger
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
	: 213
5 5 (	: 240
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No limit
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Additional information	
Emergency Response Guide (ERG) Number	: 171
TDG	
No additional information available	
Transport by sea	
No additional information available	
Air transport No additional information available	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
-	
ROOT DESTROYER (7758-99-8)	
SARA Section 311/312 Hazard Classes	Acute toxicity Skin corosion or irritation
	Serious eye damage or irritation
All components of this product are present and list (TSCA) inventory, except for:	ed as Active on the United States Environmental Protection Agency Toxic Substances Control Act
Sulfuric acid, copper(2+) salt (1:1), pentahydrate	CAS-No. 7758-99-8 100%
	oxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 ents of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40

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#### 15.2. International regulations

#### CANADA

No additional information available

### **EU-Regulations**

No additional information available

#### **National regulations**

### **ROOT DESTROYER (7758-99-8)**

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Japanese Poisonous and Deleterious Substances Control Law Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemical Inventory)

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## **SECTION 16: Other information**

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Revision date	: 5/26/2023
Other information	: None.

Full text of H-phrases	
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation

Safety Data Sheet (SDS), USA

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