

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/13/2015 Version: 1.0

SECTION 1. Chamical Braduct and C	omnony Identification
SECTION 1: Chemical Product and C 1.1. Product identifier	
Product form	: Substance
Trade name	: ROOT DESTROYER
CAS No	: 7758-99-8
Formula	: Cu.H2O4S.5H2O
Synonyms	: Copper(II) sulfate pentahydrate
	ance or mixture and uses advised against
Use of the substance/mixture	: Septic Maintenance Product
1.3. Details of the supplier of the safety d	ata sheet
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: Hazards identification	
2.1. Classification of the substance or mi	xture
Classification (GHS-US) Acute Tox. 4 (Oral) H302 Skin Irrit. 2 H315 Eye Irrit. 2A H319	
2.2. Label elements	
2.2. Label elements	
·	: • • • • •
2.2. Label elements GHS-US labeling	: Varning
2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	
2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation

No additional information available

2.4.

Unknown acute toxicity (GHS-US)

None of the ingredients are of unknown toxicity

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	ON 3: Composition/informatic	on on in	gredients		
.1.	Substance				
Name			Product identifier	%	Classification (GHS-US)
	acid, copper(2+) salt (1:1), pentahydrate nstituent)		(CAS No) 7758-99-8	99	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
ull text	of H-phrases: see section 16				
.2.	Mixture				
lot appl	licable – product is a substance				
ECTI	ON 4: First aid measures				
.1.	Description of first aid measures				
irst-aid	measures general		r give anything by mouth to an unc v the label where possible).	onscious person. I	f you feel unwell, seek medical advie
irst-aid	measures after inhalation		ove victim to fresh air and allow the		
irst-aid	measures after skin contact		n with plenty of soap and water. Wa rs: Get medical advice/attention.	ash contaminated of	clothing before reuse. If skin irritatior
	measures after eye contact	do. C	ontinue rinsing. If eye irritation per	sists: Get medical	
First-aid	measures after ingestion		e mouth. Do NOT induce vomiting. TER/doctor/physician if you feel un		medical attention. Call a POISON
.2.	Most important symptoms and effe	cts, both	acute and delayed		
	ms/injuries after skin contact		es skin irritation.		
• •	ms/injuries after eye contact		es serious eye irritation.		
symptor	ms/injuries after ingestion	: Swal	owing a small quantity of this mate	erial will result in se	rious health hazard.
.3.	Indication of any immediate medica	al attentio	n and special treatment needed		
lo addit	tional information available				
SECTI	ON 5: Firefighting measures				
.1.	Extinguishing media				
	extinguishing media		n. Dry powder. Carbon dioxide. Wa	ter spray. Sand.	
Insuitat	ole extinguishing media	: Do no	ot use a heavy water stream.		
.2.	Special hazards arising from the su	bstance	or mixture		
ire haz	ard	: If hea	ated above 400°C, this product can	decompose to em	it toxic sulfur fumes.
5.3.	Advice for firefighters				
rirefight	ing instructions		water spray or fog for cooling expo		
			ical fire. Contain all water used for	0 0	•
rotectio	on during firefighting	: Do no	ot enter fire area without proper pro	otective equipment	, including respiratory protection.
ECTI	ON 6: Accidental release mea	sures			
i .1.	Personal precautions, protective ec	quipment	and emergency procedures		
6.1.1.	For non-emergency personnel				
merger	ncy procedures	: Evac	uate unnecessary personnel.		
5.1. 2 .	For emergency responders				
	ve equipment	: Equip	cleanup crew with proper protecti	on.	
merger	ncy procedures	: Venti	late area.		
.2.	Environmental precautions				
	entry of excess quantities to storm sewe	ers and pu	ublic waters. Notify authorities if sig	nificant quantities	do enter storm sewers or public wate
.3.	Methods and material for containme	ent and c	leaning up		
	s for cleaning up		• •	ontainers. Minimiz	e generation of dust. Store away fro

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.4. **Reference to other sections**

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: 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.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas thoroughly after handling.
7.2. Conditions for safe storage, includin	ng any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	

No additional information available

SE	SECTION 8: Exposure controls/personal protection				
8.1	8.1. Control parameters				
R	ROOT DESTROYER 7758-99-8				
U	USA NIOSH NIOSH Recommended Exposure Limit 1.0 mg/m ³				

8.2. Exposure controls	
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	 Not typically required. If airborne concentrations exceed recommended exposure limits, use a NIOSH approved respirator.
Other information	When using, do not eat, drink or smoke. Provide sufficient ventilation to maintain airborne concentrations below recommended exposure limits.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and	chemical properties		
Physical state	: Solid		
Appearance	: Crystals/Powder.		
Color	: Blue.		
Odor	: None.		
Odor threshold	: No data available		
pH	: 3.7 - 4.2 10% Solution		
pH solution	: 3.7 - 4.2 10% solution		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapor pressure	: No data available		
Relative vapor density at 20 °C	: No data available		
Relative density	: 2.284		
Solubility	: Water: 22.37%@ 0°C; 117.95%@ 100°C Ethanol: Slightly soluble		

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. **Other information**

No additional information available

SECTI	ON 10: Stability and reactivity				
10.1.	Reactivity				
No addit	No additional information available				
10.2.	Chemical stability				
Stable					
10.3.	Possibility of hazardous reactions				
Not esta	Not established.				
10.4.	Conditions to avoid				
Direct su	Direct sunlight. Extremely high or low temperatures. Moisture.				
10.5.	Incompatible materials				
Solution	s are mildly corrosive to steel. Store solutions in plastic or rubber or 304, 347, or 316 stainless steel.				
10.6.	Hazardous decomposition products				
,	ated above 600°C, toxic sulfur may evolve.				
SECTI	SECTION 11: Toxicological information				

11.1. Information on toxicological effects

Acute toxicity	: Harmful if swallowed.
ROOT DESTROYER 7758-99-8	
LD50 oral rat	960 mg/kg
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
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Harmful if swallowed.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

SECTI	ON 12: Ecological information
12.1.	Toxicity

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ROOT DESTROYER (7758-99-8)	
LC50 fish 1	0.66 - 1.15 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [semi-static])
EC50 Daphnia 1	0.147 - 0.227 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	0.96 - 1.8 mg/I (Exposure time: 96 h - Species: Lepomis macrochirus [static])
2.2. Persistence and degradability	
ROOT DESTROYER (7758-99-8)	Also
Persistence and degradability	Not established.
2.3. Bioaccumulative potential	
ROOT DESTROYER (7758-99-8)	
Bioaccumulative potential	Not established.
2.4. Mobility in soil	
lo additional information available	
2.5. Other adverse effects	
other information	: Avoid release to the environment.
ECTION 13: Disposal consideration	s
3.1. Waste treatment methods	
aste disposal recommendations	: Dispose in a safe manner in accordance with local, state and federal regulations.
cology - waste materials	: Avoid release to the environment.
ECTION 14: Transport information	
accordance with DOT	
ransport document description	: UN3077 Environmentally hazardous substances, solid, n.o.s. (CUPRIC SULFATE, Reportable
· · · · · · · · · · · · · · · · · · ·	Quantity (RQ) 10 lbs), 9, III
N-No.(DOT)	: 3077
OT NA no.	: UN3077
OT Proper Shipping Name	: Environmentally hazardous substances, solid, n.o.s.
	CUPRIC SULFATE, Reportable Quantity (RQ) 10 lbs
epartment of Transportation (DOT) Hazard	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
lazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)
	9
	\mathbb{V}
OT Symbols	: G - Identifies PSN requiring a technical name
acking group (DOT)	: III - Minor Danger
OT Packaging Exceptions (49 CFR 173.xxx)	: 155
OT Packaging Non Bulk (49 CFR 173.xxx)	: 213
OT Packaging Bulk (49 CFR 173.xxx)	: 240
OT Quantity Limitations Passenger aircraft/rail	
49 CFR 173.27)	
OT Quantity Limitations Cargo aircraft only (49 FR 175.75)	: No limit
OT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a
	passenger vessel.
dditional information	. 474
mergency Response Guide (ERG) Number	: 171
DR	
o additional information available	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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	Delayed (chronic) health hazard Immediate (acute) health hazard	
SARA Section 313 - Emission Reporting	Copper Compounds 100%	

15.2. International regulations

CANADA

ROOT DESTROYER (7758-99-8)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

15.2.2. National regulations

ROOT DESTROYER (7758-99-8)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on Inventory of Existing Chemical Substances (IECSC) Listed on New Zealand - Inventory of Chemicals (NZIoC) Listed on Inventory of Chemicals and Chemical Substances (PICCS) Poisonous and Deleterious Substances Control Law Pollutant Release and Transfer Register Law (PRTR Law)

15.3. US State regulations

No additional information available

Other information

: None.

Full text of H-phrases: see section 16:

SECTION 16: Other information

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation

SDS US (GHS HazCom 2012)

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