

Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name	• Instant Power® Root Destroyer
CAS Number	• 7758-99-8
Product Code	• MSDS No.: 1885
EC Number	• 231-847-6
Molecular Formula	• :H 12:O 9:S 1:Cu 1:

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s)	• To kill the roots of trees and plants invading sewer lines
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1.3 Details of the supplier of the safety data sheet

Supplier	• Scotch Corporation 1255 Viceroy Dallas, TX 75247 United States www.scotchcorp.com mail@scotchcorp.com
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Telephone (General) • 1-800-334-2077

EU Supplier	• Robimatic Ltd. Sandall Stones Road Kirk Sandall Industrial Estate Doncaster DN3 1QR United Kingdom
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robimatic@polypipe.com

Telephone (General) • +44 (0) 1302-790-790

Fax • +44 (0) 1302-790-088

1.4 Emergency telephone number

- 1-800-424-9300 - CHEMTREC (USA)
- 1-703-527-3887 - CHEMTREC (International)

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP	• Skin Irritation 2 - H315
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- DSD/DPD
- Eye Irritation 2 - H319
 - Acute Toxicity Oral 4 - H302
 - Irritant (Xi)
 - Harmful (Xn)
 - Dangerous to the Environment (N)
 - R22, R36/38, R50, R53

2.2 Label Elements

CLP

WARNING



- Hazard statements**
- H315 - Causes skin irritation
 - H319 - Causes serious eye irritation
 - H302 - Harmful if swallowed

Precautionary statements

- Prevention**
- P264 - Wash thoroughly after handling.
 - P270 - Do not eat, drink or smoke when using this product.
 - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
 - P332+P313 - If skin irritation occurs: Get medical advice/attention.
 - P321 - Specific treatment, see supplemental first aid information.
 - P362 - Take off contaminated clothing and wash before reuse.
 - P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P337+P313 - If eye irritation persists: Get medical advice/attention.
 - P301+P312 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
 - P330 - Rinse mouth.
- Storage/Disposal**
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
 - P102 - Keep out of reach of children.

DSD/DPD



- Risk phrases**
- R22 - Harmful if swallowed.
 - R36/38 - Irritating to eyes and skin.
 - R50 - Very toxic to aquatic organisms.
 - R53 - May cause long-term adverse effects in the aquatic environment.
- Safety phrases**
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - S57 - Use appropriate containment to avoid environmental contamination.
 - S1/2 - Keep locked up and out of the reach of children.

2.3 Other Hazards

CLP

- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD

- This product is not considered dangerous under the European Directive 67/548/EEC

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

- OSHA HCS 2012**
- Acute Toxicity Oral 4
 - Skin Irritation 2
 - Eye Irritation 2A

2.2 Label elements

OSHA HCS 2012

WARNING



- Hazard statements**
- Harmful if swallowed
 - Causes skin irritation
 - Causes serious eye irritation

Precautionary statements

- Prevention**
- Wash thoroughly after handling.
 - Do not eat, drink or smoke when using this product.
 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- If skin irritation occurs: Get medical advice/attention. Specific treatment, see supplemental first aid information. Take off contaminated clothing and wash before reuse.
 - IF IN EYES: 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 SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
 - Rinse mouth.

- Storage/Disposal**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
 - Keep out of reach of children.

2.3 Other hazards

- OSHA HCS 2012**
- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

- WHMIS**
- Toxic - D1B
 - Other Toxic Effects - D2B

2.2 Label elements

WHMIS

- Toxic - D1B
- Other Toxic Effects - D2B

2.3 Other hazards

WHMIS • In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

3.1 Substances

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Copper Sulfate, Pentahydrate	CAS:7758-99-8	100%	Skin-Rat LD50 • >2 g/kg Ingestion/Oral-Rat LD50 • 300 mg/kg	EU DSD/DPD: Annex I - Xn; R22 Xi; R36/38 N; R50-53 EU CLP: Annex VI - Acute Tox. 4. H301; Eye Irrit. 2, H315; Skin Irrit. 2, H319 OSHA HCS 2012: Acute Tox 4 (orl), Skin Irrit 2, Eye Irrit 2A	NDA

3.2 Mixtures

- Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

4.1 Description of first aid measures

- Inhalation** • Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Seek medical attention immediately.
- Skin** • Immediately wash skin with soap and water for at least 20 minutes. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation persists.
- Eye** • Immediately flush eyes with running water for at least 20 minutes lifting upper and lower eyelids occasionally. Get medical attention immediately.
- Ingestion** • Do NOT induce vomiting. Rinse mouth. Do not give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to Physician** • All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product

may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media

- Use extinguishing agent suitable for type of surrounding fire. Water spray may be used to keep fire exposed containers cool.

Unsuitable Extinguishing Media

- None known.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Not flammable or combustible but may decompose in the heat of a fire to produce corrosive and/or toxic fumes. Sealed containers may rupture during fire conditions from pressure water vapor release.

Hazardous Combustion Products

- Sulfur oxides and copper fumes.

5.3 Advice for firefighters

- Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. When heated above 110C (302F) material will melt. Avoid using a direct water stream on molten material as it may cause splattering. Dike fire control water for disposal.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Ventilate area of leak or spill. Contain the discharged material. Wear appropriate personal protective equipment.

Emergency Procedures

- Keep unauthorized personnel away.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Sweep up without creating a dust cloud, mark & store as hazardous waste. If not sweepable, collect on absorbent material, store as hazardous waste. Use EPA approved hazardous waste disposal site. Follow applicable local, state, and federal regulations.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Do not use in areas without adequate ventilation. Avoid contact with skin and eyes. Do not ingest. Wash thoroughly after handling. Use good safety and industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a well-ventilated place. Keep container tightly closed. Protect against physical damage. Keep away from incompatible materials. Store in cool, dry, ventilated area away from sunlight. Containers may be hazardous when empty since they retain product residue. Keep out of reach of children.

7.3 Specific end use(s)

- To kill the roots of trees and plants invading sewer lines.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

		Exposure Limits/Guidelines				
	Result	ACGIH	Canada Ontario	Canada Quebec	NIOSH	OSHA
Copper (7440-50-8)	TWAs	0.2 mg/m ³ TWA (fume)	0.2 mg/m ³ TWA (fume); 1 mg/m ³ TWA (dust and mist)	0.2 mg/m ³ TWAEV (fume); 1 mg/m ³ TWAEV (dust and mist)	1 mg/m ³ TWA (dust and mist); 0.1 mg/m ³ TWA (fume)	0.1 mg/m ³ TWA (fume); 1 mg/m ³ TWA (dust and mist)
Copper Sulfate, Pentahydrate as Copper compounds	TWAs	1 mg/m ³ TWA (dust and mist, as Cu) <i>as Copper compounds</i>	Not established	Not established	1 mg/m ³ TWA (dust and mist, as Cu) <i>as Copper compounds</i>	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	United Kingdom				
Copper (7440-50-8)	STELs	0.6 mg/m ³ STEL (calculated, fume); 2 mg/m ³ STEL (dust and mist)				
	TWAs	0.2 mg/m ³ TWA (fume); 1 mg/m ³ TWA (dust and mist)				

Exposure Limits Supplemental

ACGIH

- Instant Power® Root Destroyer as Copper Compounds: **TLV Basis - Critical Effects:** (gastrointestinal (dust and mist); irritation (dust and mist))
- Copper Sulfate, Pentahydrate as Copper compounds: **TLV Basis - Critical Effects:** (gastrointestinal (dust and mist); irritation (dust and mist))
- Copper as Copper Compounds: **TLV Basis - Critical Effects:** (gastrointestinal (dust and mist); irritation (dust and mist))

8.2 Exposure controls

Engineering

- Local and mechanical exhaust recommended. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Measures/Controls

Personal Protective Equipment

Respiratory

- For limited exposure use a NIOSH approved dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear face shield and chemical safety goggles.

Skin/Body

- Wear long sleeves and/or protective coveralls. Wear protective gloves impervious to this material.

General Industrial

Hygiene Considerations

- Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco or going to the bathroom.

Environmental

Exposure Controls

- Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Blue crystals with no odor.
Color	Blue	Odor	Odorless
Particulate Type	Dust	Odor Threshold	Data lacking
General Properties			
Boiling Point	150 C(302 F)	Melting Point	110 C(230 F)
Decomposition Temperature	Data lacking	pH	3.7 to 4.2
Specific Gravity/Relative Density	= 2.28 @ 15.6 C(60.08 F) Water=1	Water Solubility	31.6 g/mL @ 0 C(32 F)
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	20 mmHg (torr) @ 22.5 C(72.5 F)	Vapor Density	8.6
Evaporation Rate	SLOWLY EFFLORESCENT		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Flame Duration	Not relevant
Flammability (solid, gas)	Not Flammable.		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Hygroscopic but stable when kept dry, under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Incompatible materials. Substance will ignite Hydroxylamine. Solutions are acidic and can react with magnesium to evolve flammable hydrogen gas. May react with acetylene to form dangerous acetylides. Avoid high temperatures and exposure to air.

10.5 Incompatible materials

- Incompatible Materials: Hydroxylamine, magnesium, and reducing agents. This product can corrode aluminum, steel, and iron. Copper sulfate pentahydrate is incompatible with alkalines, phosphates, acetylene, hydrazine, and nitromethane.

10.6 Hazardous decomposition products

- Sulfur oxides and copper oxides.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

	CAS	
Instant Power® Root Destroyer	7758-99-8	Acute Toxicity: Ingestion/Oral-Rat LD50 • 300 mg/kg; Ingestion/Oral-Human LDLo • 50 mg/kg; Behavioral:Somnolence (general depressed activity); Kidney, Ureter, and Bladder.Changes in tubules

(including acute renal failure, acute tubular necrosis); Blood:Hemorrhage

GHS Properties	Classification
Acute toxicity	EU/CLP •Acute Toxicity - Oral 4 OSHA HCS 2012 •Acute Toxicity - Oral 4
Aspiration Hazard	EU/CLP •Classification criteria not met OSHA HCS 2012 •Classification criteria not met
Carcinogenicity	EU/CLP •Classification criteria not met OSHA HCS 2012 •Classification criteria not met
Germ Cell Mutagenicity	EU/CLP •Classification criteria not met OSHA HCS 2012 •Classification criteria not met
Skin corrosion/Irritation	EU/CLP •Skin Irritation 2 OSHA HCS 2012 •Skin Irritation 2
Skin sensitization	EU/CLP •Classification criteria not met OSHA HCS 2012 •Classification criteria not met
STOT-RE	EU/CLP •Classification criteria not met OSHA HCS 2012 •Classification criteria not met
STOT-SE	EU/CLP •Classification criteria not met OSHA HCS 2012 •Classification criteria not met
Toxicity for Reproduction	EU/CLP •Classification criteria not met OSHA HCS 2012 •Classification criteria not met
Respiratory sensitization	EU/CLP •Classification criteria not met OSHA HCS 2012 •Classification criteria not met
Serious eye damage/Irritation	EU/CLP •Eye Irritation 2 OSHA HCS 2012 •Eye Irritation 2A

Target Organs

- Liver and Kidney

Route(s) of entry/exposure

- Inhalation, Skin, Eye, Ingestion

Potential Health Effects**Inhalation****Acute (Immediate)**

- Exposure to dust may cause irritation.

Chronic (Delayed)

- Can cause breathing disorders, irritation to the mucous membranes and upper respiratory tract.

Skin**Acute (Immediate)**

- Causes skin irritation.

Chronic (Delayed)

- No data available.

Eye**Acute (Immediate)**

- Causes serious eye irritation.

Chronic (Delayed)

- No data available.

Ingestion**Acute (Immediate)**

- Toxic if swallowed.

Chronic (Delayed)

- Repeated and prolonged exposure can cause liver and kidney damage.

Carcinogenic Effects

- The components of this material are not found on the following lists: FEDERAL OSHA Z LIST, NTP and IARC; therefore, they are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

Section 12 - Ecological Information

12.1 Toxicity

Instant Power® Root Destroyer			7758-99-8		
Dosage	Species	Duration	Results	Exposure Conditions	Comments
0.1 mg/L	Fish: Rainbow trout	96 Hour(s)	LC50	NDA	NDA
0.6 mg/L	Fish: Blue gill	48 Hour(s)	LC50	NDA	NDA
0.1 mg/L	Fish: Goldfish	96 Hour(s)	LC50	NDA	NDA
0.024 mg/L	Water Flea: NDA	48 Hour(s)	EC50	NDA	NDA

12.2 Persistence and degradability

- This material is not expected to biodegrade.

12.3 Bioaccumulative potential

- This material is expected to significantly bioaccumulate.

12.4 Mobility in Soil

- When released into the soil this material may leach into groundwater.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

Potential

- Harmful to aquatic life in very low concentrations. Copper Sulfate Pentahydrate is toxic to fish

Environmental Effects

- and marine organisms when applied to streams, rivers, ponds or lakes.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN3077	Environmentally hazardous substance, solid, n.o.s (Copper Sulfate)	9	III	Severe Marine Pollutant
TDG	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper Sulphate)	9.1	III	Severe Marine Pollutant
IMO/IMDG	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper Sulphate)	9	III	NDA
ADR/RID	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper Sulphate)	9	III	NDA
IATA/ICAO	UN3077	Environmentally hazardous substance, solid, n.o.s (Copper Sulfate)	9	III	NDA

14.6 Special precautions for user • None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • Not relevant.

14.8 Other information

DOT • Special Provisions for Transport: Additional markings "Marine Pollutant" required for bulk shipments. These additional markings should be entered on the shipping paper in association with the basic DOT description.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

- Acute, Chronic

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.
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Section 16 - Other Information

Last Revision Date

- 12/March/2015

Preparation Date

- 05/March/2015

Disclaimer/Statement of Liability

- The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Key to abbreviations

NDA = No data available
