

# SAFETY DATA SHEET

## 1. Product and Company Identification

<b>Product identifier</b>	<b>C-Pool Mineral Treatment</b>
<b>Other means of identification</b>	Not available
<b>Recommended use</b>	Pool Water Treatment
<b>Recommended restrictions</b>	It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
<b>Manufacturer</b>	C-Pool Minerals 122 Edward Street St. Thomas, ON N5P 1Z2 CA Phone: 519-518-2396 Fax: 519-631-9042 Email: contact@c-pool.ca Website: www.c-pool.com Emergency Phone: 613-996-6666 (CANUTEC)

## 2. Hazards Identification

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Serious eye damage/eye irritation	Category 2A
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	Not classified.	

### Label elements



<b>Signal word</b>	Warning
<b>Hazard statement</b>	Causes serious eye irritation.
<b>Precautionary statement</b>	
<b>Prevention</b>	Wash thoroughly after handling. Wear eye/face protection.
<b>Response</b>	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.
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	Not applicable.

## 3. Composition/Information on Ingredients

### Mixture

<b>Chemical name</b>	<b>Common name and synonyms</b>	<b>CAS number</b>	<b>%</b>
Copper (II) sulfate pentahydrate		7758-99-8	12.375

<b>Composition comments</b>	Not applicable to EPA registered products. Refer to product label for active ingredient content. Not applicable to PCP products. Refer to product label for active ingredient content.
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## 4. First Aid Measures

<b>Inhalation</b>	If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
<b>Skin contact</b>	If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.
<b>Eye contact</b>	If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

<b>Ingestion</b>	If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
	Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.
<b>Most important symptoms/effects, acute and delayed</b>	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

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## 5. Fire Fighting Measures

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<b>Suitable extinguishing media</b>	Treat for surrounding material.
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	Firefighters should wear a self-contained breathing apparatus.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Fire-fighting equipment/instructions</b>	In the event of fire, cool tanks with water spray.
<b>Specific methods</b>	Cool containers exposed to flames with water until well after the fire is out.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Oxides of sulfur.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available.
<b>Sensitivity to static discharge</b>	Not available.

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## 6. Accidental Release Measures

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<b>Personal precautions, protective equipment and emergency procedures</b>	Immediately evacuate personnel to safe areas. Keep out of low areas. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Prevent entry into waterways, sewers, basements or confined areas. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Do not discharge into lakes, streams, ponds or public waters.

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## 7. Handling and Storage

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<b>Precautions for safe handling</b>	Minimize dust generation and accumulation. Avoid breathing dust. Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure.
	Practice good housekeeping. Use good industrial hygiene practices in handling this material. Wear appropriate personal protective equipment. In case of insufficient ventilation, wear suitable respiratory equipment. When using do not eat or drink. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

Store away from incompatible materials (see Section 10 of the SDS).  
Guard against dust accumulation of this material.  
Keep container closed when not in use.  
Keep in dry, cool place out of reach of children.  
Store in a well-ventilated place.  
Do not reuse empty container.

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**8. Exposure Controls/Personal Protection**

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**Occupational exposure limits****US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value	Form
Copper (II) sulfate pentahydrate (CAS 7758-99-8)	TWA	1 mg/m <sup>3</sup>	Dust and mist.

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines**

Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.

**Appropriate engineering controls**

Ensure adequate ventilation.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Safety goggles or glasses.

**Skin protection****Hand protection**

Rubber gloves. Confirm with a reputable supplier first.

**Other**

Wear suitable protective clothing.

If clothing or footwear becomes contaminated with the product, remove it and completely decontaminate it before re-use, or discard it.

**Respiratory protection**

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

**Thermal hazards**

Not available.

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

When using do not eat or drink.

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**9. Physical and Chemical Properties**

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**Appearance** Granular powder

**Physical state** Solid.

**Form** Powder.

**Color** Light blue

**Odor** Odorless.

**Odor threshold** Not available.

**pH** 6.3 (10% solution)

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Pour point** Not available.

**Specific gravity** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Flash point** Not available.

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** Not available.

Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Soluble
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk density	12.4 lbs/gallon

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## 10. Stability and Reactivity

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<b>Reactivity</b>	This product may react with strong oxidizing agents.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
<b>Incompatible materials</b>	Oxidizers. Caustics. Reducing agents.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of sulfur.

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## 11. Toxicological Information

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<b>Routes of exposure</b>	Eye, Skin contact, Inhalation, Ingestion.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Health injuries are not known or expected under normal use.
<b>Inhalation</b>	Inhalation of dusts may cause respiratory irritation.
<b>Skin contact</b>	Non-irritating based on test data.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

### Information on toxicological effects

#### Acute toxicity

Product	Species	Test Results
C-Pool Mineral Treatment (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 5 g/kg
<i>Inhalation</i>		
LC50	Rat	> 2 mg/l/4h
<i>Oral</i>		
LD50	Rat	> 5 g/kg
<i>Other</i>		
LD50	Rabbit	64 g/kg, estimated
Components	Species	Test Results

#### Copper (II) sulfate pentahydrate (CAS 7758-99-8)

##### Acute

##### *Dermal*

LD50	Rabbit	> 1000 mg/kg
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##### *Inhalation*

LC50	Not available	
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##### *Oral*

LD100	Mouse	50 mg/kg
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LD50	Rat	960 mg/kg
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		300 mg/kg
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**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

<b>Exposure minutes</b>	Not available.
<b>Erythema value</b>	Not available.
<b>Oedema value</b>	Not available.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation based on test results.
<b>Corneal opacity value</b>	Not available.
<b>Iris lesion value</b>	Not available.
<b>Conjunctival reddening value</b>	Not available.
<b>Conjunctival oedema value</b>	Not available.
<b>Recover days</b>	Not available.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	Not a skin sensitizer based on test data.
<b>Germ cell mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Carcinogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Reproductive toxicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Teratogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not available.
<b>Chronic effects</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Further information</b>	Not available.
<b>Name of Toxicologically Synergistic Products</b>	Not available.

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## 12. Ecological Information

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<b>Ecotoxicity</b>	See below		
<b>Components</b>		<b>Species</b>	<b>Test Results</b>
Copper (II) sulfate pentahydrate (CAS 7758-99-8)			
Crustacea	EC50	Daphnia	0.187 mg/L, 48 Hours
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	0.006 - 0.007 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	0.66 - 1.15 mg/l, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product.		
<b>Bioaccumulative potential</b>	No data available.		
<b>Mobility in soil</b>	No data available.		
<b>Mobility in general</b>	Not available.		
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

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## 13. Disposal Considerations

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<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Wrap and dispose of empty container in household garbage. For information on unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, or for clean-up of spills.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport Information

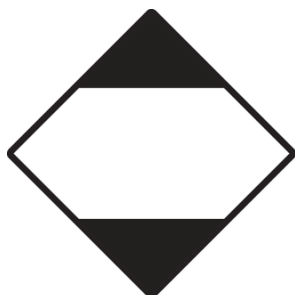
**General** North American Free Trade Agreement (NAFTA) #: 380-899-9500.

**U.S. Department of Transportation (DOT)****Basic shipping requirements:**

**UN number** UN3077  
**Proper shipping name** Environmentally hazardous substances, solid, n.o.s. (Copper (II) sulfate pentahydrate)  
**Hazard class** Limited Quantity - US  
**Packing group** III  
**Packaging exceptions** <5Kg Limited Quantity

**Transportation of Dangerous Goods (TDG - Canada)****Basic shipping requirements:**

**UN number** UN3077  
**Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper (II) sulfate pentahydrate)  
**Hazard class** Limited Quantity - Canada  
**Packing group** III  
**Special provisions** 16  
**Packaging exceptions** <5Kg Limited Quantity

**DOT; TDG**

## 15. Regulatory Information

**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

**Canada Priority Substances List (Second List): Listed substance**

Aluminum sulphate (CAS 10043-01-3) Listed.  
 Sodium chloride (CAS 7647-14-5) Listed.

**Canada WHMIS Ingredient Disclosure: Threshold limits**

Aluminum sulphate (CAS 10043-01-3) 1 %

**WHMIS classification** Exempt - Registered product - (PCP 17668)

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

**PRECAUTIONARY STATEMENTS:**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS.**

**WARNING:** Causes substantial, but temporary eye injury. Do not get in eyes or on clothing. Wear safety glasses. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before wearing.

EPA Reg. # 89248-1

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration**

Copper (II) sulfate pentahydrate (CAS 7758-99-8) 1.0 % N100

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

Copper (II) sulfate pentahydrate (CAS 7758-99-8) Listed. N100

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**US CWA Section 311 Hazardous Substances: Listed substance**

Aluminum sulphate (CAS 10043-01-3) Listed.

Copper (II) sulfate pentahydrate (CAS 7758-99-8) Listed.

**US CWA Section 307(a)(1) Toxic Pollutants: Listed substance**

Copper (II) sulfate pentahydrate (CAS 7758-99-8) Listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Aluminum sulphate (CAS 10043-01-3) Listed.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
 Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Copper (II) sulfate pentahydrate	7758-99-8	12.375

**Other federal regulations**

**Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)** Hazardous substance

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Not regulated.

**US state regulations**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US - California Hazardous Substances (Director's): Listed substance**

Aluminum sulphate (CAS 10043-01-3) Listed.

Copper (II) sulfate pentahydrate (CAS 7758-99-8) Listed.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Not listed.

**US - Illinois Chemical Safety Act: Listed substance**

Aluminum sulphate (CAS 10043-01-3) Listed.

**US - Louisiana Spill Reporting List: Reportable quantity (total mass into atmosphere)**

Copper (II) sulfate pentahydrate (CAS 7758-99-8) 100 LBS

**US - Louisiana Spill Reporting: Listed substance**

Aluminum sulphate (CAS 10043-01-3) Listed.

**US - Michigan Critical Materials Register: Parameter number**

Copper (II) sulfate pentahydrate (CAS 7758-99-8) 07440-50-8 Listed.

**US - Minnesota Haz Subs: Listed substance**

Aluminum sulphate (CAS 10043-01-3) Listed.

**US - New Jersey RTK - Substances: Listed substance**

Aluminum sulphate (CAS 10043-01-3) Listed.

**US - New York Release Reporting: Hazardous Substances: Listed substance**

Aluminum sulphate (CAS 10043-01-3) Listed.

Copper (II) sulfate pentahydrate (CAS 7758-99-8) Listed.

**US - Texas Effects Screening Levels: Listed substance**

Aluminum sulphate (CAS 10043-01-3) Listed.

Copper (II) sulfate pentahydrate (CAS 7758-99-8) Listed.

Sodium bicarbonate (CAS 144-55-8) Listed.

Sodium chloride (CAS 7647-14-5) Listed.

**US. Massachusetts RTK - Substance List**

Aluminum sulphate (CAS 10043-01-3) Listed.

Copper (II) sulfate pentahydrate (CAS 7758-99-8) Listed.

**US. Pennsylvania RTK - Hazardous Substances**

Aluminum sulphate (CAS 10043-01-3) Listed.

Copper (II) sulfate pentahydrate (CAS 7758-99-8) Listed.

**US. Rhode Island RTK**

Aluminum sulphate (CAS 10043-01-3) Listed.

**Inventory status**

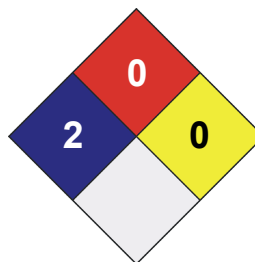
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**16. Other Information**

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

<b>HEALTH</b>	/ 2
<b>FLAMMABILITY</b>	0
<b>PHYSICAL HAZARD</b>	0
<b>PERSONAL PROTECTION</b>	X



**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

**Issue date**

26-June-2015

**Effective date**

15-June-2015

**Expiry date**

15-June-2018

**Further information**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

**Prepared by**

Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

**Other information**

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.