

**Copper Sulphate Pentahydrate**

PP-009

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### SECTION 1. IDENTIFICATION

**Product identifier used on the label**

: **Copper Sulphate Pentahydrate**

**Product Code(s)** : None assigned.

**Recommended use of the chemical and restrictions on use**

: Fertilizer, horticultural chemical  
Use pattern: professional use  
Recommended restrictions: None known.

**Chemical family** : Inorganic fertilizer

**Name, address, and telephone number of the manufacturer:**

**Plant Products Inc.**

50 Hazelton Street  
PO BOX 33

Leamington, Ontario, Canada N8H 3W1

Manufacturer's Telephone # : 519-326-9037 (Monday - Friday, 8:00 am - 5:00 pm, Eastern Standard Time)

**Name, address, and telephone number of the supplier:**

**Plant Products Inc.**

50 Hazelton Street  
PO BOX 33

Leamington, Ontario, Canada N8H 3W1

Supplier's Telephone # : 519-326-9037 (Monday - Friday, 8:00 am - 5:00 pm, Eastern Standard Time)

**24 Hr. Emergency Tel #** : CANUTEC: 1-888-CANUTEC (1-888-226-8832)

### SECTION 2. HAZARDS IDENTIFICATION

**Classification of the chemical**

Appearance: Solid - crystalline, blue, hygroscopic.

Odour: Odourless.

Most important hazards: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Acute toxicity, Oral - Category 4

Skin corrosion/irritation - Category 2

Eye damage/irritation - Category 2A

**Label elements**

*Hazard pictogram(s)*



*Signal Word*

WARNING!

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### Hazard statement(s)

Harmful if swallowed.  
Causes skin irritation.  
Causes serious eye irritation.

### Precautionary statement(s)

Wear protective gloves and eye/face protection.  
Do not eat, drink or smoke when using this product.  
Wash hands thoroughly after handling.

IF ON SKIN: Wash with plenty of soap and water.  
Take off contaminated clothing and wash before re-use.  
If skin irritation occurs, get medical advice/attention.  
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: Call a POISON CENTRE or doctor/physician if you feel unwell.  
Rinse mouth.

Dispose of contents/container in accordance with local/regional/national/international regulations.

### Other hazards

No OSHA defined hazard classes.

Other hazards which do not result in classification:

Toxic fumes, gases or vapours may evolve on burning.  
Corrosive to plain steel.  
Dusts may cause irritation of the mucous membranes and respiratory tract.  
Prolonged overexposure may cause liver and kidney effects.  
Chronic skin contact with low concentrations may cause dermatitis.

Ecological information:

Very toxic to aquatic life. Avoid release to the environment. See Section 12 for more environmental information.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Copper Sulphate Pentahydrate	Cupric sulfate pentahydrate	7758-99-8	99.92%

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Rinse mouth thoroughly. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTRE or doctor/physician if you feel unwell.
- Inhalation* : Remove exposed person to fresh air immediately. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention if irritation develops and persists.
- Skin contact* : Wash off with soap and plenty of water. Remove and wash contaminated clothing before re-use. Get medical attention if irritation develops and persists.
- Eye contact* : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Do not rub eyes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

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### Most important symptoms and effects, both acute and delayed

- : Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- : Causes skin irritation. Contact may cause redness, swelling and a painful sensation. Contact with dust can cause mechanical irritation or drying of the skin.
- : Causes serious eye irritation. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. Dust contact with the eyes can lead to mechanical irritation.
- : Dusts may cause irritation of the mucous membranes and respiratory tract. Symptoms may include coughing, mucous production and difficulty breathing.
- : Prolonged overexposure may cause liver and kidney effects.
- : Chronic skin contact with low concentrations may cause dermatitis.

### Indication of any immediate medical attention and special treatment needed

- : Provide general supportive measures and treat symptomatically.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing media

#### *Suitable extinguishing media*

- : Use media suitable for the surrounding area.

#### *Unsuitable extinguishing media*

- : Do not use a solid water stream as it may scatter and spread the fire.

### Special hazards arising from the substance or mixture / Conditions of flammability

- : Not considered flammable. Toxic fumes, gases or vapours may evolve on burning. May decompose to form toxic/corrosive gasses if exposed to high heat. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

### Flammability classification (OSHA 29 CFR 1910.106)

- : Not flammable.

### Hazardous combustion products

- : Copper oxides; Sulfur oxides.

### Special protective equipment and precautions for firefighters

#### *Protective equipment for fire-fighters*

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters should wear an approved full-face, self-contained breathing apparatus (SCBA) and impervious clothing.

#### *Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. Contaminated surfaces may be slippery. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- : Restrict access to area until completion of clean-up. Keep people away from and upwind of spill/leak. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** : Do not allow material to contaminate ground water system. Prevent product from entering drains, sewers, waterways and soil.

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### Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Do not touch or walk through spilled material. Avoid dust formation. Spills which have occurred outdoors should be temporarily covered to prevent spreading of the chemical by the wind. Vacuum or sweep up spilled material using a method that does not generate airborne dust. Place in clean, dry and labeled containers. Clean surface thoroughly to remove residual contamination. After cleaning, flush away traces with water. Do not flush into surface water or sanitary sewer system. Refer to Section 13 for disposal of contaminated material. Contact the proper local authorities.

### Special spill response procedures

- : For 24-hour emergency assistance, call: 1-613-996-6666 (CANUTEC). If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

EPA/CERCLA Reportable quantity (RQ):  
None known.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling

- : Avoid dust formation. Use in a well-ventilated area. Material is hygroscopic and may absorb moisture from air. Keep container tightly closed when not in use. Wear appropriate protective equipment. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Do not ingest. Wash thoroughly after handling. Keep away from incompatibles. Keep away from extreme heat and flame. Empty containers retain residue and can be dangerous.

### Conditions for safe storage

- : Store in a cool, dry, well ventilated area. Store away from incompatible materials. Keep away from heat and sources of ignition. Keep away from direct sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Protect against moisture, water, and physical damage. Do not store in open or unlabelled containers. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. No smoking. Inspect periodically for damage or leaks. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.

### Incompatible materials

- : Oxidizing agents, Strong acids, Strong bases, Powdered metals, Nitromethane.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Copper Sulphate Pentahydrate	1 mg/m <sup>3</sup> (dust and mist, as Cu)	N/Av	1 mg/m <sup>3</sup> (dust and mist, as Cu)	N/Av

### Exposure controls

#### Ventilation and engineering measures

- : Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

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- Respiratory protection** : If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Use a NIOSH approved dust respirator if dust levels exceed exposure limits. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.
- Skin protection** : Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye / face protection** : Chemical goggles must be worn to prevent dusts from entering the eyes. A full face shield may also be necessary.
- Other protective equipment** : Emergency showers and eyewash facilities should be nearby. Other equipment may be required depending on workplace standards.
- General hygiene considerations** : Avoid breathing dust. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after using this product, and before eating, drinking or smoking. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Solid - crystalline, blue
- Odour** : Odourless.
- Odour threshold** : N/Ap
- pH** : 3.7-4.2 (10% Solution)
- Melting/Freezing point** : 230°F / 110°C Melting point
- Initial boiling point and boiling range** : Decomposes on heating.
- Flash point** : N/Ap
- Flashpoint (Method)** : N/Ap
- Evaporation rate (BuAe = 1)** : N/Ap
- Flammability (solid, gas)** : Not considered flammable.
- Lower flammable limit (% by vol.)** : N/Ap
- Upper flammable limit (% by vol.)** : N/Ap
- Oxidizing properties** : None known.
- Explosive properties** : Not explosive
- Vapour pressure** : N/Ap
- Vapour density** : 8.6 (Air = 1.0)
- Relative density / Specific gravity** : 2.2 (water = 1)
- Solubility in water** : Soluble
- Other solubility(ies)** : N/Av
- Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : N/Ap
- Auto-ignition temperature** : N/Ap
- Decomposition temperature** : N/Av
- Viscosity** : N/Ap
- Volatiles (% by weight)** : N/Av
- Volatile organic Compounds (VOC's)** : N/Av
- Absolute pressure of container** : N/Ap

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Flame projection length : N/Ap

**Other physical/chemical comments**

: Not sensitive to static discharge or mechanical impact under normal conditions of use and handling.

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : Not normally reactive.

**Chemical stability** : Stable under normal conditions. Decomposes on heating.

**Possibility of hazardous reactions**

: Hazardous polymerization does not occur. No dangerous reaction known under conditions of normal use.

**Conditions to avoid** : Avoid dust formation. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation. Keep away from extreme heat and flame.

**Incompatible materials** : Moisture. Oxidizing agents. Strong acids. Strong bases. Powdered metals. Nitromethane.

**Hazardous decomposition products**

: Copper oxides; Sulphur oxides.

### SECTION 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure:**

**Routes of entry inhalation** : YES

**Routes of entry skin & eye** : YES

**Routes of entry Ingestion** : YES

**Routes of exposure skin absorption**

: NO

**Potential Health Effects:**

**Signs and symptoms of short-term (acute) exposure**

*Sign and symptoms Inhalation*

: Dusts may cause irritation of the mucous membranes and respiratory tract. Symptoms may include coughing, mucous production and difficulty breathing.

*Sign and symptoms ingestion*

: Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

*Sign and symptoms skin*

: Causes skin irritation. Contact may cause redness, swelling and a painful sensation. Contact with dust can cause mechanical irritation or drying of the skin.

*Sign and symptoms eyes*

: Causes serious eye irritation. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. Dust contact with the eyes can lead to mechanical irritation.

**Potential Chronic Health Effects**

: Prolonged overexposure may cause liver and kidney effects. Chronic skin contact with low concentrations may cause dermatitis.

**Mutagenicity**

: Not expected to be mutagenic in humans.

**Carcinogenicity**

: No component of this product present at levels greater than, or equal to, 0.1% is identified as a carcinogen or potential carcinogen by ACGIH, IARC, OSHA, or NTP.

**Reproductive effects & Teratogenicity**

: Not expected to cause reproductive effects.

**Sensitization to material**

: Not expected to be a skin or respiratory sensitizer.

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**Specific target organ effects** : Not classified as a specific target organ toxicity-single exposure.  
Not classified as specific target organ toxicity-repeated exposure.

**Medical conditions aggravated by overexposure**

: Pre-existing skin, eye and respiratory disorders.

**Synergistic materials**

: No information available.

**Toxicological data**

: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:

Acute toxicity (Oral) - Category 4. Harmful if swallowed.

See below for toxicological data on the substance.

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Copper Sulphate Pentahydrate	N/Av	481 mg/kg	> 2000 mg/kg (No mortality)

**Other important toxicological hazards**

: None reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : Very toxic to aquatic life. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. See the following tables for the substance's ecotoxicity data.

**Ecotoxicity data:**

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Copper Sulphate Pentahydrate	7758-99-8	0.032 mg/L (Rainbow trout)	N/Av	10

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Daphnia</u>		
		<u>EC50 / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Copper Sulphate Pentahydrate	7758-99-8	0.18 mg/L (Daphnia magna)	N/Av	1

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Algae</u>		
		<u>EC50 / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
Copper Sulphate Pentahydrate	7758-99-8	N/Av	N/Av	N/Av

**Persistence and degradability**

: Biodegradation is not applicable to inorganic substances.

**Bioaccumulation potential**

: Not expected to bioaccumulate.  
See the following data for ingredient information.

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<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Copper Sulphate Pentahydrate (CAS 7758-99-8)	N/Ap	N/Ap

**Mobility in soil** : There is no data available for this product.

**Other Adverse Environmental effects**

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.



### SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Refer to protective measures listed in sections 7 and 8.

**Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.

**RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

### SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper Sulphate Pentahydrate)	9	III	
<b>49CFR/DOT Additional information</b>	This product contains marine pollutants. Not regulated for road or rail shipment if packaged in non-bulk containers (450 L / 119 Gallons or less each).				
TDG	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper Sulphate Pentahydrate)	9	III	
<b>TDG Additional information</b>	This product contains marine pollutants. The 'Environmentally hazardous' mark must appear on packagings holding more than 5 kg of the material. This material may be shipped as an exempted marine pollutant in accordance with TDG Section 1.45.1 and Special Provision 99.				

**Special precautions for user** : Keep away from extreme heat and flame. Appropriate advice on safety must accompany the package.

**Environmental hazards** : This substance meets the criteria for an environmentally hazardous substance according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

: This information is not available.

### SECTION 15 - REGULATORY INFORMATION

**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:



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<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Copper Sulphate Pentahydrate	7758-99-8	NL	N/Ap	N/Ap	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard, Chronic Health Hazard Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Copper Sulphate Pentahydrate	7758-99-8	No	N/Ap	No	No	No	No	No	No

### Canadian Information:

Canadian Environmental Protection Act (CEPA):

The following ingredient(s) do not appear on the DSL or NDSL: Copper sulfate pentahydrate.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

### International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Copper Sulphate Pentahydrate	7758-99-8	231-847-6 (anhydrous)	Present	Present	(1)-300 (anhydrous)	KE-08956 (anhydrous)	Present	HSR003126

## SECTION 16. OTHER INFORMATION

### Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CSA: Canadian Standards Association
- DOT: Department of Transportation
- EC50: Effective Concentration 50%.
- ECHA: European Chemicals Agency
- EINECS: European Inventory of Existing Commercial chemical Substances
- ENCS: Existing and New Chemical Substances
- EPA: Environmental Protection Agency

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HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
IBC: Intermediate Bulk Container  
IECSC: Inventory of Existing Chemical Substances  
Inh: Inhalation  
IOC: Inventory of Chemicals  
KECI: Korean Existing Chemicals Inventory  
KECL: Korean Existing Chemicals List  
LC: Lethal Concentration  
LD: Lethal Dose  
MA: Massachusetts  
MN: Minnesota  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NOEC: No observable effect concentration  
NTP: National Toxicology Program  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PEL: Permissible exposure limit  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
RCRA: Resource Conservation and Recovery Act  
RI: Rhode Island  
SARA: Superfund Amendments and Reauthorization Act  
SDS: Safety Data Sheet / MSDS: Material Safety Data Sheet  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

**References** : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016  
2. International Agency for Research on Cancer Monographs, searched 2016  
3. Canadian Centre for Occupational Health and Safety, CCHInfoWeb databases, 2016(Chempendium, HSDB and RTECs).  
4. Material Safety Data Sheets from manufacturer.  
5. US EPA Title III List of Lists - 2016 version.  
6. California Proposition 65 List - 2016 version.  
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal,2016.

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**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

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<p><b><u>Prepared for:</u></b>          Direct all enquiries to:          Plant Products, Inc.          50 Hazelton Street          PO BOX 33          Leamington, ON, Canada          N8H 3W1</p>	 <b>PLANTPRODUCTS®</b>
<p><b><u>Prepared by:</u></b>          ICC The Compliance Center Inc.          Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada)  <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	 <b>ComplianceCenter</b>

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