



TCC Materials
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Mendota Heights, MN 55120-1221

Emergency Telephone Number: 651-688-9116
Information Telephone Number 651-688-9116

Revision Date
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Section 1: Product Identification

Product Type: Gravels, Landscaping Rocks

Product Name:

Nurserymen's Preferred® Red Lava Rock

Section 2: Hazard Identification

Physical hazards: Not classified.
Health hazards: Not classified.
Environmental hazards: Not classified.
OSHA defined hazards: Not classified.

Label elements

Hazard symbol: None.
Signal word: None
Hazard statement: The mixture does not meet criteria for classification.

Precautionary statement

Prevention: Observe good industrial hygiene practices.
Response: Wash hands after handling.
Storage: Store away from incompatible materials.
Disposal: Dispose of waste and residues in accordance with local authority requirements.

Hazards not otherwise Classified (HNOC): None known.

Supplemental information: Not applicable/

HMIS® Rating: Health: 1* Fire: 0 Reactivity: 0
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Section 3: Hazardous Ingredients/Composition

Table with 3 columns: Ingredient, Typical Percentage, CAS #. Rows include Aluminum (<0.1, 7429-90-5) and Antimony (<0.1, 7440-36-0).

Arsenic	<0.1	7440-38-2
Barium.....	<0.1	7440-39-3
Beryllium	<0.1	7440-41-7
Boron.....	<0.1	7440-42-8
Cadmium.....	<0.1	7440-43-9
Chloride.....	<0.1	16887-00-6
Chromium.....	<0.1	7440-47-3
Copper	<0.1	7440-50-8
Iron.....	<0.1	7439-89-6
Lead	<0.1	7469-92-1
Manganese	<0.1	7469-96-5
Mercury	<0.1	7439-97-6
Molybdenum.....	<0.1	7439-98-7
Nickel	<0.1	7440-02-0
Nitrogen.....	<0.1	7727-37-9
Selenium	<0.1	7782-49-2
Silver	<0.1	7440-22-4
Sulfate	<0.1	14808-79-8
Thallium.....	<0.1	7440-28-0
Zinc, elemental.....	<0.1	7440-66-6

Composition comments: Non-hazardous by OSHA criteria

**Contains trace amounts of aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, chloride, chromium, copper, iron, lead, manganese, mercury, molybdenum, nickel, nitrogen, selenium, silver, sulfate, thallium, zinc.

Section 4: First Aid Measures

Inhalation:

Typically not an inhalation hazard unless material is broken up and dust is created. If symptoms develop, move to fresh air. If symptoms persist, obtain medical attention.

Eye contact:

Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Skin Contact:

Wash/shower with soap and water. If irritation develops and persists, get medical attention.

Ingestion:

Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Most important symptoms/effect, acute and delayed:

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed:

Treat according to symptoms.

General information:

If you feel unwell, seek immediate medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep out of reach of children.

Section 5: Fire Fighting Measures

Fire extinguishing media:

Appropriate for surrounding materials. Material will not burn.

Unsuitable extinguishing media:

Not available.

Specific hazards arising from the chemical:

Not available.

Special protective equipment and precautions for firefighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions:

Not available.

Specific methods:

Not available.

General fire hazards:

No unusual fire or explosion hazards noted.

Hazardous combustion products:

May included and are not limited to: Oxides of nitrogen. Oxides of carbon.

Explosion data:**Sensitivity to mechanical impact:**

Not available.

Sensitivity to static discharge:

Not available.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up:

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.

Environmental precautions:

No special environmental precautions required.

Section 7: Handling and Storage

Precautions for safe handling:

- Potential for dust is low, avoid breathing dust from the rock.
- Avoid prolonged exposure.
- Use with adequate ventilation.
- Observe good industrial hygiene practices, wash hands after use.

Conditions for safe storage including any incompatibilities:

- Store away from incompatible materials (see Section 10 of the SDS).
- Keep out of reach of children.

Section 8: Exposure Controls/Personal Protection

Occupational Exposure Limits:

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Components	Type	Value
Arsenic (CAS 7440-38-2)	TWA	0.01 mg/m ³
Cadmium (CAS 7440-43-9)	TWA	0.005 mg/m ³
Lead (CAS 7439-92-1)	TWA	0.05 mg/m ³

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)			
Components	Type	Value	Form
Aluminum (CAS 7429-90-5)	PEL	5 mg/m ³	Respirable dust.
		15 mg/m ³	Total dust.
Antimony (CAS 7440-36-0)	PEL	0.5 mg/m ³	
Chromium (CAS 7440-47-3)	PEL	1 mg/m ³	
Copper (CAS 7440-50-8)	PEL	1 mg/m ³	Dust and mist. Fume.
	Ceiling	0.1 mg/m ³	
Manganese (CAS 7439-96-5)	PEL	5 mg/m ³	
Molybdenum (CAS 7439-98-7)	PEL	15 mg/m ³	Total dust.
Nickel (CAS 7440-02-0)	PEL	1 mg/m ³	
Selenium (CAS 7782-49-2)	PEL	0.2 mg/m ³	
Silver (CAS 7440-22-4)	PEL	0.01 mg/m ³	
Thallium (CAS 7440-28-0)	PEL	0.1 mg/m ³	

US. OSHA Table Z-2 (29 CFR 1910.1000)			
Components	Type	Value	Form
Beryllium (CAS 7440-41-7)	Ceiling	0.005 mg/m ³	
	TWA	0.002 mg/m ³	
Cadmium (CAS 7440-43-9)	Ceiling	0.6 mg/m ³	Dust.

	TWA	0.3 mg/m ³ 0.2 mg/m ³ 0.1 mg/m ³	Fume. Dust. Fume.
Mercury (CAS 7439-97-6)	Ceiling	0.1 mg/m ³	

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Aluminum (CAS 7429-90-5)	TWA	1 mg/m ³	Respirable fraction.
Antimony (CAS 7440-36-0)	TWA	0.5 mg/m ³	
Arsenic (CAS 7440-38-2)	TWA	0.01 mg/m ³	
Barium (CAS 7440-39-3)	TWA	0.5 mg/m ³	
Beryllium (CAS 7440-41-7)	TWA	0.00005 mg/m ³	Inhalable fraction.
Cadmium (CAS 7440-43-9)	TWA	0.01 mg/m ³ 0.002 mg/m ³	Respirable fraction.
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m ³	
Copper (CAS 7440-50-8)	TWA	1 mg/m ³ 0.2 mg/m ³	Dust and mist. Fume.
Lead (CAS 7439-92-1)	TWA	0.05 mg/m ³	
Manganese (CAS 7439-96-5)	TWA	0.1 mg/m ³ 0.02 mg/m ³	Inhalable fraction. Respirable fraction.
Mercury (CAS 7439-97-6)	TWA	0.025 mg/m ³	
Molybdenum (CAS 7469-98-7)	TWA	3 mg/m ³ 10 mg/m ³	Respirable fraction. Inhalable fraction.
Nickel (CAS 7440-02-0)	TWA	1.5 mg/m ³	Inhalable fraction.
Selenium (CAS 7782-49-2)	TWA	0.2 mg/m ³	
Silver (CAS 7440-22-4)	TWA	0.1 mg/m ³	Dust and fume.
Thallium (CAS 7440-28-0)	TWA	0.2 mg/m ³	Inhalable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Aluminum (CAS 7429-90-5)	TWA	5 mg/m ³ 5 mg/m ³ 10 mg/m ³	Respirable. Welding fume or pyrophoric powder. Total.
Antimony (CAS 7440-36-0)	TWA	0.5 mg/m ³	
Arsenic (CAS 7440-38-2)	Ceiling	0.002 mg/m ³	
Beryllium (CAS 7440-41-7)	Ceiling	0.0005 mg/m ³	
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m ³	
Copper (CAS 7440-50-8)	TWA	1 mg/m ³	Dust and mist.
Lead (CAS 7439-92-1)	TWA	0.05 mg/m ³	
Manganese (CAS 7439-96-5)	STEL TWA	3 mg/m ³ 1 mg/m ³	Fume. Fume.
Mercury (CAS 7439-97-6)	Ceiling	0.01 ppm	Vapor.

	TWA	0.05 mg/m ³	Vapor.
Nickel (CAS 7440-02-0)	TWA	0.015 mg/m ³	
Selenium (CAS 7782-49-2)	TWA	0.2 mg/m ³	
Silver (CAS 7440-22-4)	TWA	0.01 mg/m ³	Dust.
Thallium (CAS 7440-28-0)	TWA	0.1 mg/m ³	

Biological limit values:

ACGIH Biological Exposure Indices				
Components	Value	Determinant	Specimen	Sampling Time
Arsenic (CAS 7440-38-2)	35 µg/l	Inorganic arsenic, plus methylated metabolites, as As	Urine	*
Cadmium (CAS 7440-43-9)	5 µg/g	Cadmium	Creatinine in urine.	*
	5 µg/g	Cadmium	Blood.	*
Lead (CAS 7439-92-1)	300 µg/l	Lead	Blood.	*
Mercury (CAS 7439-97-6)	20 µg/g	Total inorganic mercury	Creatinine in urine.	*

* - For sampling details, please see the source document.

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.

Personal protective equipment

Eye/face protection:

Safety glasses with side shields recommended if material could become airborne.

Skin protection:

Hands: Impervious gloves. Sturdy work gloves recommended to protect hands from abrasion.

Other: Wear suitable protective clothing.

Respiratory protection:

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Thermal hazards:

Not applicable.

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using do not eat or drink.

Section 9: Physical and Chemical Properties

Appearance	Porous lava rock of varying sizes
Physical state	Solid.
Form	Granular solid.
Color	Grey / Black to Red.
Odor	None.
Odor threshold	Not available.
pH	Not available.
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)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available

Section 10: Stability and Reactivity

Reactivity:	Do not mix with incompatible materials.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Chemical stability:	Stable under recommended storage conditions
Conditions to avoid:	Contact with incompatible materials. In dust form, this product is explosive in presence of open flames, sparks, and static discharge.
Incompatibility:	None known.
Hazardous decomposition products:	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

Section 11: Toxicological Information

Routes of exposure: Inhalation. Eye, skin contact. Inhalation. Ingestion.
Information on likely routes of exposure
Ingestion: May cause stomach distress, nausea or vomiting.
Inhalation: Prolonged inhalation may be harmful.
Skin contact: No adverse effects due to skin contact are expected.

US ACGIH Threshold Limit Values: Skin designation

Beryllium (CAS 7440-41-7)	IFR Be Can be absorbed through the skin.
Mercury (CAS 7439-97-6)	Hg Can be absorbed through the skin.
Thallium (CAS 7440-28-0)	IFR TI Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Mercury (CAS 7439-97-6)	VAP Hg Can be absorbed through the skin.
Thallium (CAS 7440-28-0)	TI Can be absorbed through the skin.

Eye contact: Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics
 Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity			
Components	Test	Species	Test Results
Aluminum (CAS 7429-90-5)	Acute LD50 Inhalation LC50	Not available Rat	>1000 mg/m3
Antimony (CAS 7440-36-0)	Acute Dermal LD50 Oral LD50	Not available Rat	7000 mg/m3
Arsenic (CAS 7440-38-2)	Acute Inhalation LC50 Oral LD50	Not available Mouse Rat	145 mg/kg 763 mg/kg
Barium (CAS 7440-39-3)	Acute Dermal LD50 Inhalation LC50 Oral LD50	Not available Not available Not available	
Beryllium (CAS 7440-41-7)	Acute Dermal LD50 Inhalation LC50 Oral LD50	Not available Not available Not available	
Boron (CAS 7440-42-8)	Acute Inhalation LC50 Oral LD50	Not available Rat	350 mg/kg
Cadmium (CAS 7440-43-9)	Acute Dermal LD50 Inhalation LC50 Oral LD50	Not available Not available Mouse	890 mg/kg

		Rat	225 mg/kg
Chloride (CAS 16887-00-6)	Acute Dermal LD50 Inhalation LC50 Oral LD50	Not available Not available Not available	
Chromium (CAS 7440-47-3)	Acute Dermal LD50	Not available	
Copper (CAS 7440-50-8)	Acute Dermal LD50 Inhalation LC50 Oral LD50	Not available Not available Not available	
Iron (CAS 7439-89-6)	Acute Inhalation LC50 Oral LD 50	Not available Rat	984 mg/kg
Lead (CAS 7439-92-1)	Acute Inhalation LC50 Oral LD 50	Not available Not available	
Manganese (CAS 7439-96-5)	Acute Inhalation LC50 Oral LD 50	Not available Rat Mouse	1715 mg/kg 9000 mg/kg
Mercury (CAS 7439-97-6)	Acute Inhalation LC50 Oral LD 50	Rat Not available	2.3 ppm, 4 hr
Molybdenum (CAS 7439-98-7)	Acute Dermal LD50 Inhalation LC50 Oral LD 50	Not available Not available Not available	
Nickel (CAS 7440-02-0)	Acute Dermal LD50 Inhalation LC50 Oral LD 50	Not available Not available Not available	
Nitrogen (CAS 7727-37-9)	Acute Inhalation LC50 Oral LD50	Not available Not available	
Selenium (CAS 7782-49-2)	Acute Dermal LD50 Inhalation LC50 Oral LD50	Not available Not available Not available	
Silver (CAS 7440-22-4)	Acute Dermal LD50 Oral LD50	Rat Rat	>2000 mg/kg >5000 mg/kg 2000 mg/kg
Sulfate (CAS 14808-79-8)	Acute Dermal LD50 Inhalation LD50	Not available Not available	
Thallium (CAS 7440-28-0)	Acute Dermal LD50 Inhalation LC50 Oral LD50	Not available Not available Not available	
Zinc, elemental (CAS 7440-66-6)	Acute Inhalation LC50 Oral LD50	Not available Rat	630 mg/kg

Skin corrosion/irritation:

Prolonged skin contact may cause temporary irritation.

Exposure limits: Not available.

Erythema value: Not available.

Oedema value: Not available.

Serious eye damage/eye irritation:

Direct contact with eyes may cause temporary irritation.

Corneal opacity value:	Not available.
Iris lesion value:	Not available.
Conjunctival reddening value:	Not available.
Conjunctival oedema value:	Not available.
Recover days:	Not available.

Respiratory or skin sensitization

Respiratory sensitization:	Not available.
Skin sensitization:	This product is not expected to cause skin sensitization.

US ACGIH Threshold Limit Values: Skin designation

Beryllium (CAS 7440-41-7)	IFR Be Can be absorbed through the skin.
Mercury (CAS 7439-97-6)	Hg Can be absorbed through the skin.
Thallium (CAS 7440-28-0)	IFR TI Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Mercury (CAS 7439-97-6)	VAP Hg Can be absorbed through the skin.
Thallium (CAS 7440-28-0)	TI Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Beryllium (CAS 7440-41-7)	IFR Be Can be absorbed through the skin.
Mercury (CAS 7439-97-6)	Hg Can be absorbed through the skin.
Thallium (CAS 7440-28-0)	IFR TI Can be absorbed through the skin.

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Mercury (CAS 7439-97-6)	VAP Hg Can be absorbed through the skin.
Thallium (CAS 7440-28-0)	TI Can be absorbed through the skin.

Germ cell mutagenicity:	Not classified.
Mutagenicity :	Not classified.

Carcinogenicity See below.

ACGIH Carcinogens

Aluminum (CAS 7429-90-5)	A4 Not classifiable as a human carcinogen.
Arsenic (CAS 7440-38-2)	A1 Confirmed human carcinogen.
Barium (CAS 7440-39-3)	A4 Not classifiable as a human carcinogen.
Beryllium (CAS 7440-41-7)	A1 Confirmed human carcinogen.
Cadmium (CAS 7440-43-9)	A2 Suspected human carcinogen.
Chromium (CAS 7440-47-3)	A4 Not classifiable as a human carcinogen.
Lead (CAS 7439-92-1)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Manganese (CAS 7439-96-5)	A4 Not classifiable as a human carcinogen.
Mercury (CAS 7439-97-6)	A4 Not classifiable as a human carcinogen.

Molybdenum (CAS 7439-98-7)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Nickel (CAS 7440-02-0)	A5 Not suspected as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Arsenic (CAS 7440-38-2)	Volume 23, Supplement 7, Volume 100C 1 Carcinogenic to humans.
Beryllium (CAS 7440-41-7)	Volume 58, Volume 100C 1 Carcinogenic to humans.
Cadmium (CAS 7440-43-9)	Volume 58, Volume 100C 1 Carcinogenic to humans.
Chromium (CAS 7440-47-3)	Volume 49 - 3 Not classifiable as to carcinogenicity to humans.
Lead (CAS 7439-92-1)	Volume 23, Supplement 7 - 2B Possibly carcinogenic to humans.
Mercury (CAS 7439-97-6)	Volume 58 - 3 Not classifiable as to carcinogenicity to humans.
Nickel (CAS 7440-02-0)	Volume 49 - 2B Possibly carcinogenic to humans.
Selenium (CAS 7782-49-2)	Volume 9, Supplement 7 - 3 Not classifiable as to carcinogenicity to humans.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Arsenic (CAS 7440-38-2)	Carcinogenic.
Beryllium (CAS 7440-41-7)	Carcinogenic.
Cadmium (CAS 7440-43-9)	Carcinogenic.
Lead (CAS 7439-92-1)	Carcinogenic.
Nickel (CAS 7440-02-0)	Carcinogenic.

US NTP Report on Carcinogens: Anticipated carcinogen

Lead (CAS 7439-92-1)	Reasonably Anticipated to be a Human Carcinogen.
Nickel (CAS 7440-02-0)	Reasonably Anticipated to be a Human Carcinogen.

US NTP Report on Carcinogens: Known carcinogen

Arsenic (CAS 7440-38-2)	Known To Be Human Carcinogen.
Beryllium (CAS 7440-41-7)	Known To Be Human Carcinogen.
Cadmium (CAS 7440-43-9)	Known To Be Human Carcinogen.
Nickel (CAS 7440-02-0)	Known To Be Human Carcinogen.

Reproductive toxicity:	Not classified.
Teratogenicity:	Not classified.

Specific target organ toxicity - single exposure: Not classified.
Specific target organ toxicity - repeated exposure: Not classified.
Aspiration hazard: Not classified.
Chronic effects: Prolonged inhalation may be harmful.
Further information: This product has no known adverse effect on human health.
Name of Toxicologically Synergistic Products: Not available.

Section 12: Ecological Information

Ecotoxicity			
Components	Test	Species	Test Results
Aluminum (CAS 7429-90-5)	Aquatic Fish LC 50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	0.16 mg/L, 96 hours
Antimony (CAS 7440-36-0)	Aquatic Fish LC 50	Sheepshead minnow (Cyprinodon variegatus)	6.2 - 8.3 mg/L, 96 hours
Arsenic (CAS 7440-38-2)	Aquatic Fish LC 50	Fathead minnow (Pimephales promelas)	9.9 mg/L, 96 hours
Barium (CAS 7440-39-3)	Aquatic Fish LC 50	Sheepshead minnow (Cyprinodon variegatus)	>500 mg/L, 96 hours
Cadmium (CAS 7440-43-9)	Crustacea EC50	Daphnia	0.024 mg/L, 48 hours
	Aquatic Crustacea EC50	Water flea (daphnia magna)	0.025 mg/L, 48 hours
	Fish LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	0.002-0.003 mg/L, 96 hours
Chromium (CAS 7440-47-3)	Aquatic Crustacea EC50	Water flea (daphnia magna)	0.01 - 0.7 mg/L, 48 hours
	Fish LC50	Carp (Cyprinus carpio)	14.3 mg/L, 96 hours
Copper (CAS 7440-50-8)	Algae IC50	Algae	0.048 mg/L, 72 hours
	Crustacea EC50	Daphnia	0.03 mg/L, 48 hours
	Aquatic Crustacea EC50	Water flea (daphnia magna)	0.036 mg/L, 48 hours

	Fish LC50	Fathead minnow (Pimephales promelas)	0.032 - 0.054 mg/L, 96 hours
Iron (CAS 7439-89-6)	Aquatic Fish LC 50	Channel catfish (Ictalurus punctatus)	> 500 mg/L, 96 hours
Lead (CAS 7439-92-1)	Aquatic Fish LC 50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	1.17 mg/L, 96 hours
Manganese (CAS 7439-96-5)	Aquatic Crustacea EC50	Water flea (daphnia magna)	40 mg/L, 48 hours
Mercury (CAS 7439-97-6)	Aquatic Fish LC 50	Indian catfish (Heteropneustes fossilis)	0.099 mg/L, 96 hours
Molybdenum (CAS 7439-98-7)	Aquatic Fish LC 50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	800 mg/L, 96 hours
Nickel (CAS 7440-02-0)	Algae IC50 Crustacea EC50 Aquatic Crustacea EC50 Fish LC 50	Algae	0.18 mg/L, 72 hours
		Daphnia	100 mg/L, 48 hours
		Water flea (daphnia magna)	1 mg/L, 48 hours
		Fathead minnow (Pimephales promelas)	2.923 mg/L, 96 hours
Selenium (CAS 7782-49-2)	Aquatic Fish LC 50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	11.5 mg/L, 96 hours
Silver (CAS 7440-22-4)	Crustacea EC50 Aquatic Fish LC50	Daphnia	0 mg/L, 48 Hours
		Fathead minnow (Pimephales promelas)	0.002 - 0.003 mg/L, 96 hours
Thallium (CAS 7440-28-0)	Aquatic Fish LC 50	Sheepshead minnow (Cyprinodon variegatus)	17 - 27 mg/L, 96 hours
Zinc, elemental (CAS 7440-66-6)	Algae IC50 Crustacea EC50 Aquatic Fish LC 50	Algae	0.191 mg/L, 72 hours
		Daphnia	0.524 mg/L, 48 hours
		Rainbow trout, donaldson trout (Oncorhynchus mykiss)	0.56 mg/L, 96 hours

Persistence and degradability: No data is available on the degradability of this product.

Bioaccumulative potential: No data available.

US CWA Bioaccumulative Chemicals of Concern: Listed substance:

Mercury (CAS 7439-97-6) Listed. US CWA Bioaccumulative Chemicals of Concern: Listed substance

Mobility in soil: No data available.

Mobility in general: Not available.

Other adverse 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

Disposal instructions:

Review federal, provincial, and local government requirements prior to disposal.

Local disposal regulations:

Dispose in accordance with all applicable regulations.

Hazardous waste code:

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US RCRA Hazardous Waste P List: Reference

Beryllium (CAS 7440-41-7) P015

US RCRA Hazardous Waste U List: Reference

Mercury (CAS 7439-97-6) U151

Waste from residues / unused products:

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.

Section 14: Transportation

General:

Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of the product will appear below.

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

Section 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 CEPA Schedule I: Listed substance

Arsenic (CAS 7440-38-2)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Lead (CAS 7439-92-1)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Zinc, elemental (CAS 7440-66-6)	Listed.

Canada Priority Substances List (Second List): Listed substance

Zinc, elemental (CAS 7440-66-6)	Listed.
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Canada WHMIS Ingredient Disclosure: Threshold limits

Aluminum (CAS 7429-90-5)	1 %
Antimony (CAS 7440-36-0)	1 %
Arsenic (CAS 7440-38-2)	0.1 %
Barium (CAS 7440-39-3)	1 %
Beryllium (CAS 7440-41-7)	0.1 %
Cadmium (CAS 7440-43-9)	0.1 %
Chromium (CAS 7440-47-3)	0.1 %
Copper (CAS 7440-50-8)	1 %
Lead (CAS 7439-92-1)	0.1 %
Manganese (CAS 7439-96-5)	1 %
Mercury (CAS 7439-97-6)	0.1 %
Molybdenum (CAS 7439-98-7)	1 %
Nickel (CAS 7440-02-0)	0.1 %
Selenium (CAS 7782-49-2)	0.1 %
Silver (CAS 7440-22-4)	1 %
Thallium (CAS 7440-28-0)	1 %

WHMIS status Not Controlled

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Aluminum (CAS 7429-90-5)	1.0 %
Antimony (CAS 7440-36-0)	1.0 %
Arsenic (CAS 7440-38-2)	0.1 %
Barium (CAS 7440-39-3)	1.0 % N040
Beryllium (CAS 7440-41-7)	0.1 %
Cadmium (CAS 7440-43-9)	0.1 %
Chromium (CAS 7440-47-3)	1.0 %
Copper (CAS 7440-50-8)	1.0 %
Lead (CAS 7439-92-1)	0.1 % Substance is not eligible for the de minimis exemption except for the purposes of supplier notification requirements.
Manganese (CAS 7439-96-5)	1.0 %
Mercury (CAS 7439-97-6)	1.0 % Substance is not eligible for the de minimis exemption except for the purposes of supplier notification requirements.
Nickel (CAS 7440-02-0)	0.1 %
Selenium (CAS 7782-49-2)	1.0 %
Silver (CAS 7440-22-4)	1.0 %
Thallium (CAS 7440-28-0)	1.0 %
Zinc, elemental (CAS 7440-66-6)	1.0 %

US EPCRA (SARA Title III) Section 313 – Toxic Chemical: Reportable threshold

Lead (CAS 7439-92-1)	100 LBS
Mercury (CAS 7439-97-6)	10 LBS

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

Aluminum (CAS 7429-90-5)	Listed.
Antimony (CAS 7440-36-0)	Listed.
Arsenic (CAS 7440-38-2)	Listed.
Barium (CAS 7440-39-3)	Listed. N040
Beryllium (CAS 7440-41-7)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Chromium (CAS 7440-47-3)	Listed.
Copper (CAS 7440-50-8)	Listed.
Lead (CAS 7439-92-1)	Listed.
Manganese (CAS 7439-96-5)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Nickel (CAS 7440-02-0)	Listed.
Selenium (CAS 7782-49-2)	Listed.
Silver (CAS 7440-22-4)	Listed.
Thallium (CAS 7440-28-0)	Listed.
Zinc, elemental (CAS 7440-66-6)	Listed.

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

Mercury (CAS 7439-97-6) 1.0 % One-Time Export Notification only.

US CWA Bioaccumulative Chemicals of Concern: Listed substance

Mercury (CAS 7439-97-6) Listed.

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

Antimony (CAS 7440-36-0) Listed.
 Arsenic (CAS 7440-38-2) Listed.
 Beryllium (CAS 7440-41-7) Listed.
 Cadmium (CAS 7440-43-9) Listed.
 Chromium (CAS 7440-47-3) Listed.
 Copper (CAS 7440-50-8) Listed.
 Lead (CAS 7439-92-1) Listed.
 Mercury (CAS 7439-97-6) Listed.
 Nickel (CAS 7440-02-0) Listed.
 Selenium (CAS 7782-49-2) Listed.
 Silver (CAS 7440-22-4) Listed.
 Thallium (CAS 7440-28-0) Listed.
 Zinc, elemental (CAS 7440-66-6) Listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Antimony (CAS 7440-36-0) Listed.
 Arsenic (CAS 7440-38-2) Listed.
 Barium (CAS 7440-39-3) Listed.
 Beryllium (CAS 7440-41-7) Listed.
 Cadmium (CAS 7440-43-9) Listed.
 Chromium (CAS 7440-47-3) Listed.
 Copper (CAS 7440-50-8) Listed.
 Lead (CAS 7439-92-1) Listed.
 Manganese (CAS 7439-96-5) Listed.
 Mercury (CAS 7439-97-6) Listed.
 Nickel (CAS 7440-02-0) Listed.
 Selenium (CAS 7782-49-2) Listed.
 Silver (CAS 7440-22-4) Listed.
 Thallium (CAS 7440-28-0) Listed.
 Zinc, elemental (CAS 7440-66-6) Listed.

US CAA Section 112(i) High-Risk Hazardous Air Pollutants (HAPs): Weight factor

Arsenic (CAS 7440-38-2) 100
 Beryllium (CAS 7440-41-7) 10
 Cadmium (CAS 7440-43-9) 10
 Chromium (CAS 7440-47-3) 100
 Manganese (CAS 7439-96-5) 10
 Mercury (CAS 7439-97-6) 100
 Nickel (CAS 7440-02-0) 1 0

US CAA Section 112(i) High-Risk Hazardous Air Pollutants (HAPs): Listed substance

Arsenic (CAS 7440-38-2)	Listed.
Beryllium (CAS 7440-41-7)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Chromium (CAS 7440-47-3)	Listed.
Manganese (CAS 7439-96-5)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Nickel (CAS 7440-02-0)	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

Antimony (CAS 7440-36-0)	Listed.
Arsenic (CAS 7440-38-2)	Listed.
Beryllium (CAS 7440-41-7)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Chromium (CAS 7440-47-3)	Listed.
Lead (CAS 7439-92-1)	Listed.
Manganese (CAS 7439-96-5)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Nickel (CAS 7440-02-0)	Listed.
Selenium (CAS 7782-49-2)	Listed.

US CAA Section 612 SNAP Program: Listed substance

Nitrogen (CAS 7727-37-9)	Listed.
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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No
	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) Not regulated.

Other federal regulations Safe Drinking Water Act (SDWA)

Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations



WARNING: Cancer, Reproductive Harm - www.P65Warnings.ca.gov

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

Aluminum (CAS 7429-90-5)	Listed.
Antimony (CAS 7440-36-0)	Listed.
Arsenic (CAS 7440-38-2)	Listed.
Beryllium (CAS 7440-41-7)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Chromium (CAS 7440-47-3)	Listed.
Copper (CAS 7440-50-8)	Listed.
Iron (CAS 7439-89-6)	Listed.
Lead (CAS 7439-92-1)	Listed.
Manganese (CAS 7439-96-5)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Molybdenum (CAS 7439-98-7)	Listed.
Nickel (CAS 7440-02-0)	Listed.
Selenium (CAS 7782-49-2)	Listed.
Silver (CAS 7440-22-4)	Listed.
Thallium (CAS 7440-28-0)	Listed.
Zinc, elemental (CAS 7440-66-6)	Listed.

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

Arsenic (CAS 7440-38-2)	Listed.
Beryllium (CAS 7440-41-7)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Lead (CAS 7439-92-1)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Nickel (CAS 7440-02-0)	Listed.

US - Connecticut Carcinogenic Substance Reporting: Listed substance

Arsenic (CAS 7440-38-2)	Listed.
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US - Illinois Chemical Safety Act: Listed substance

Antimony (CAS 7440-36-0)	Listed.
Arsenic (CAS 7440-38-2)	Listed.
Barium (CAS 7440-39-3)	Listed.
Beryllium (CAS 7440-41-7)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Chromium (CAS 7440-47-3)	Listed.
Copper (CAS 7440-50-8)	Listed.
Lead (CAS 7439-92-1)	Listed.
Manganese (CAS 7439-96-5)	Listed.
Mercury (CAS 7439-97-6)	Listed.

Nickel (CAS 7440-02-0)	Listed.
Selenium (CAS 7782-49-2)	Listed.
Silver (CAS 7440-22-4)	Listed.
Thallium (CAS 7440-28-0)	Listed.
Zinc, elemental (CAS 7440-66-6)	Listed.

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

Antimony (CAS 7440-36-0)	100 LBS
Barium (CAS 7440-39-3)	100 LBS
Chromium (CAS 7440-47-3)	100 LBS
Copper (CAS 7440-50-8)	100 LBS
Manganese (CAS 7439-96-5)	100 LBS

US - Louisiana Spill Reporting: Listed substance

Antimony (CAS 7440-36-0)	Listed.
Arsenic (CAS 7440-38-2)	Listed.
Barium (CAS 7440-39-3)	Listed.
Beryllium (CAS 7440-41-7)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Chromium (CAS 7440-47-3)	Listed.
Copper (CAS 7440-50-8)	Listed.
Lead (CAS 7439-92-1)	Listed.
Manganese (CAS 7439-96-5)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Nickel (CAS 7440-02-0)	Listed.
Selenium (CAS 7782-49-2)	Listed.
Silver (CAS 7440-22-4)	Listed.
Thallium (CAS 7440-28-0)	Listed.
Zinc, elemental (CAS 7440-66-6)	Listed.

US - Michigan Critical Materials Register: Parameter number

Arsenic (CAS 7440-38-2)	07440-38-2 Listed.
Beryllium (CAS 7440-41-7)	07440-41-7 Listed.
Cadmium (CAS 7440-43-9)	07440-43-9 Listed.
Chromium (CAS 7440-47-3)	07440-47-3 Listed.
Copper (CAS 7440-50-8)	07440-50-8 Listed.
Lead (CAS 7439-92-1)	07439-92-1 Listed.
Mercury (CAS 7439-97-6)	07439-97-6 Listed.
Nickel (CAS 7440-02-0)	07440-02-0 Listed.
Selenium (CAS 7782-49-2)	07782-49-2 Listed.
Silver (CAS 7440-22-4)	07440-22-4 Listed.
Zinc, elemental (CAS 7440-66-6)	07440-66-6 Listed.

US - Minnesota Haz Subs: Listed substance

Aluminum (CAS 7429-90-5)	Listed.
Antimony (CAS 7440-36-0)	Listed.
Arsenic (CAS 7440-38-2)	Listed.

Beryllium (CAS 7440-41-7)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Chromium (CAS 7440-47-3)	Listed.
Copper (CAS 7440-50-8)	Listed.
Lead (CAS 7439-92-1)	Listed.
Manganese (CAS 7439-96-5)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Molybdenum (CAS 7439-98-7)	Listed.
Nickel (CAS 7440-02-0)	Listed.
Nitrogen (CAS 7727-37-9)	Listed.
Selenium (CAS 7782-49-2)	Listed.
Silver (CAS 7440-22-4)	Listed.
Thallium (CAS 7440-28-0)	Listed.

US - New Jersey RTK - Substances: Listed substance

Aluminum (CAS 7429-90-5)	Listed.
Antimony (CAS 7440-36-0)	Listed.
Arsenic (CAS 7440-38-2)	Listed.
Barium (CAS 7440-39-3)	Listed.
Beryllium (CAS 7440-41-7)	Listed.
Boron (CAS 7440-42-8)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Chromium (CAS 7440-47-3)	Listed.
Copper (CAS 7440-50-8)	Listed.
Lead (CAS 7439-92-1)	Listed.
Manganese (CAS 7439-96-5)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Molybdenum (CAS 7439-98-7)	Listed.
Nickel (CAS 7440-02-0)	Listed.
Nitrogen (CAS 7727-37-9)	Listed.
Selenium (CAS 7782-49-2)	Listed.
Silver (CAS 7440-22-4)	Listed.
Thallium (CAS 7440-28-0)	Listed.
Zinc, elemental (CAS 7440-66-6)	Listed.

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

Antimony (CAS 7440-36-0)	Listed.
Arsenic (CAS 7440-38-2)	Listed.
Beryllium (CAS 7440-41-7)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Chromium (CAS 7440-47-3)	Listed.
Copper (CAS 7440-50-8)	Listed.
Lead (CAS 7439-92-1)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Nickel (CAS 7440-02-0)	Listed.
Selenium (CAS 7782-49-2)	Listed.

Silver (CAS 7440-22-4)	Listed.
Thallium (CAS 7440-28-0)	Listed.
Zinc, elemental (CAS 7440-66-6)	Listed.

US - North Carolina Toxic Air Pollutants: Listed substance

Arsenic (CAS 7440-38-2)	Listed.
Beryllium (CAS 7440-41-7)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Manganese (CAS 7439-96-5)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Nickel (CAS 7440-02-0)	Listed.

US - Pennsylvania RTK - Hazardous Substances: All compounds of this substance are considered environmental hazards

Antimony (CAS 7440-36-0)	Listed.
Arsenic (CAS 7440-38-2)	Listed.
Barium (CAS 7440-39-3)	Listed.
Beryllium (CAS 7440-41-7)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Chromium (CAS 7440-47-3)	Listed.
Copper (CAS 7440-50-8)	Listed.
Lead (CAS 7439-92-1)	Listed.
Manganese (CAS 7439-96-5)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Nickel (CAS 7440-02-0)	Listed.
Selenium (CAS 7782-49-2)	Listed.
Silver (CAS 7440-22-4)	Listed.
Thallium (CAS 7440-28-0)	Listed.
Zinc, elemental (CAS 7440-66-6)	Listed.

US - Pennsylvania RTK - Hazardous Substances: Special hazard

Arsenic (CAS 7440-38-2)	Special hazard.
Beryllium (CAS 7440-41-7)	Special hazard.
Cadmium (CAS 7440-43-9)	Special hazard.
Chromium (CAS 7440-47-3)	Special hazard.
Nickel (CAS 7440-02-0)	Special hazard.

US - Texas Effects Screening Levels: Listed substance

Aluminum (CAS 7429-90-5)	Listed.
Antimony (CAS 7440-36-0)	Listed.
Arsenic (CAS 7440-38-2)	Listed.
Barium (CAS 7440-39-3)	Listed.
Beryllium (CAS 7440-41-7)	Listed.
Boron (CAS 7440-42-8)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Chromium (CAS 7440-47-3)	Listed.
Copper (CAS 7440-50-8)	Listed.
Iron (CAS 7439-89-6)	Listed.

Lead (CAS 7439-92-1)	Listed.
Manganese (CAS 7439-96-5)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Molybdenum (CAS 7439-98-7)	Listed.
Nickel (CAS 7440-02-0)	Listed.
Selenium (CAS 7782-49-2)	Listed.
Silver (CAS 7440-22-4)	Listed.
Thallium (CAS 7440-28-0)	Listed.
Zinc, elemental (CAS 7440-66-6)	Listed.

US - Washington Chemical of High Concern to Children: Listed substance

Antimony (CAS 7440-36-0)	Listed.
Arsenic (CAS 7440-38-2)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Molybdenum (CAS 7439-98-7)	Listed.

US. Massachusetts RTK - Substance List

Aluminum (CAS 7429-90-5)	Listed.
Antimony (CAS 7440-36-0)	Listed.
Arsenic (CAS 7440-38-2)	Listed.
Barium (CAS 7440-39-3)	Listed.
Beryllium (CAS 7440-41-7)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Chromium (CAS 7440-47-3)	Listed.
Copper (CAS 7440-50-8)	Listed.
Lead (CAS 7439-92-1)	Listed.
Manganese (CAS 7439-96-5)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Molybdenum (CAS 7439-98-7)	Listed.
Nickel (CAS 7440-02-0)	Listed.
Nitrogen (CAS 7727-37-9)	Listed.
Selenium (CAS 7782-49-2)	Listed.
Silver (CAS 7440-22-4)	Listed.
Thallium (CAS 7440-28-0)	Listed.
Zinc, elemental (CAS 7440-66-6)	Listed.

US. Pennsylvania RTK - Hazardous Substances

Aluminum (CAS 7429-90-5)	Listed.
Antimony (CAS 7440-36-0)	Listed.
Arsenic (CAS 7440-38-2)	Listed.
Barium (CAS 7440-39-3)	Listed.
Beryllium (CAS 7440-41-7)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Chromium (CAS 7440-47-3)	Listed.
Copper (CAS 7440-50-8)	Listed.
Lead (CAS 7439-92-1)	Listed.

Manganese (CAS 7439-96-5)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Molybdenum (CAS 7439-98-7)	Listed.
Nickel (CAS 7440-02-0)	Listed.
Nitrogen (CAS 7727-37-9)	Listed.
Selenium (CAS 7782-49-2)	Listed.
Silver (CAS 7440-22-4)	Listed.
Thallium (CAS 7440-28-0)	Listed.
Zinc, elemental (CAS 7440-66-6)	Listed.

US. Rhode Island RTK

Aluminum (CAS 7429-90-5)	Listed.
Antimony (CAS 7440-36-0)	Listed.
Arsenic (CAS 7440-38-2)	Listed.
Barium (CAS 7440-39-3)	Listed.
Beryllium (CAS 7440-41-7)	Listed.
Cadmium (CAS 7440-43-9)	Listed.
Chromium (CAS 7440-47-3)	Listed.
Copper (CAS 7440-50-8)	Listed.
Lead (CAS 7439-92-1)	Listed.
Manganese (CAS 7439-96-5)	Listed.
Mercury (CAS 7439-97-6)	Listed.
Nickel (CAS 7440-02-0)	Listed.
Selenium (CAS 7782-49-2)	Listed.
Silver (CAS 7440-22-4)	Listed.
Thallium (CAS 7440-28-0)	Listed.
Zinc, elemental (CAS 7440-66-6)	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)

Section 16: Other Information

Additional information on the product is available at. www.tccmaterials.com

Nurserymen's Preferred® is a trademark of TCC Materials.

Date of Preparation: June 2018
 Version: 1.1



NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products. Before using any product, read its label and safety data sheet.