

Rhizo Life Quadrate

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

: Rhizo Life Quadrate

Other means of identification : Not available.

Recommended use of the chemical and restrictions on use

: Agriculture  
No restrictions on use known.

Chemical family

: Mixture

Name, address, and telephone number  
of the supplier:

AgVent LLC

1231 E 1420 N Richfield,

ID, USA 83349

Supplier's Telephone #

24 Hr. Emergency Tel # : 1-855-844-4632 (9am-5pm PST Monday to Friday)

: 1-855-844-4632 (9am-5pm PST Monday to Friday)

Name, address, and telephone number of  
the manufacturer:

Refer to supplier

### SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Black liquid. Odourless.

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:

Skin sensitization - Category 1

Eye Damage - Category 1

Carcinogenicity - Category 1

Reproductive toxicity - Category 1

Germ Cell Mutagenicity - Category 2

Specific target organ toxicity, repeated exposure - Category 2

Skin Irritation - Category 2

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

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*Hazard statement(s)*

May cause an allergic skin reaction.  
Causes serious eye damage.  
Causes skin irritation.  
May cause cancer.  
May damage fertility or the unborn child.  
Suspected of causing genetic defects.  
May cause damage to organs through prolonged or repeated exposure if inhaled.

*Precautionary statement(s)*

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breath mist or vapor.  
Wash hands and face thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/clothing and eye/face protection.

Immediately call a POISON CENTRE or doctor/physician.  
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 ON SKIN: Wash with plenty of water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
IF exposed or concerned: Get medical attention/advice.  
Get medical advice/attention if you feel unwell.

Store locked up.

Dispose of contents/container in accordance with local regulation.

**Other hazards**

Other hazards which do not result in classification:  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Mixture

<b><u>Chemical name</u></b>	<b><u>Common name and synonyms</u></b>	<b><u>CAS #</u></b>	<b><u>Concentration (% by weight)</u></b>
<b>Ferrous sulfate</b>	Iron sulphate	7720-78-7	<b>5.0 - 10.0</b>
<b>Potassium hydroxide</b>	Not available.	1310-58-3	<b>3.0 - 7.0</b>
<b>Boric Acid</b>	Orthoboric acid	10043-35-3	<b>1.0 - 5.0</b>
<b>Zinc sulphate, monohydrate</b>	Zinc sulphate heptahydrate Zinc sulfate	7446-19-7	<b>1.0 - 5.0</b>
<b>Copper sulfate</b>	copper(2+) sulfate Copper sulphate	7758-98-7	<b>0.5 - 1.5</b>
<b>Manganese sulfate monohydrate</b>	manganese(2+) sulfate Manganese sulfate Manganese sulphate	10034-96-5	<b>0.5 - 1.5</b>
<b>Cobalt sulfate heptahydrate</b>	Cobalt sulphate Cobalt sulfate $\lambda^2$ -cobalt(2+) sulfate	10026-24-1	<b>0.1 - 1.0</b>

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

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### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : If swallowed, DO NOT induce vomiting. Rinse mouth. Call a POISON CENTRE or doctor/physician if you feel unwell.
- Inhalation* : IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
- Skin contact* : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
- Eye contact* : Immediately call a POISON CENTRE or doctor/physician. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

- : May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema. Causes eye damage. Symptoms may include redness, pain, tearing and conjunctivitis.

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

- : Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

##### *Suitable extinguishing media*

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

##### *Unsuitable extinguishing media*

- : Do not use water on molten metal.

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

- : 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 classified as flammable.

#### Hazardous combustion products

- : Metal oxides

#### Special protective equipment and precautions for firefighters

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

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

##### *Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. 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

- : Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Wear appropriate protective equipment. Refer to protective measures listed in sections 7 and 8.

#### Environmental precautions

: Prevent product from entering drains, sewers, waterways and soil.

#### Methods and material for containment and cleaning up

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- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities.

### Special spill response procedures

- : 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).  
US CERCLA Reportable quantity (RQ): See section 15.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling

- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use with adequate ventilation. Wear suitable protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Wear respiratory protection. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Do not breathe mist or vapor. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

- Conditions for safe storage** : Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Do not store near any incompatible materials (see Section 10).

- Incompatible materials** : Strong oxidizing agents; Strong acids; Halogenated compounds

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Limits:</b>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Ferrous sulfate	N/Av	N/Av	N/Av	N/Av
Potassium hydroxide	2 mg/m <sup>3</sup> (Ceiling)	N/Av	2 mg/m <sup>3</sup> (Ceiling)	N/Av
Boric Acid	2 mg/m <sup>3</sup> (inhalable fraction, listed under Borate compounds, inorganic)	6 mg/m <sup>3</sup> (inhalable fraction, listed under Borate compounds, inorganic)	N/Av	N/Av
Zinc sulphate, monohydrate	N/Av	N/Av	N/Av	N/Av
Copper sulfate	N/Av	N/Av	N/Av	N/Av
Manganese sulfate monohydrate	N/Av	N/Av	N/Av	N/Av
Cobalt sulfate heptahydrate	N/Av	N/Av	N/Av	N/Av

### Exposure controls

#### Ventilation and engineering measures

- : Provide adequate ventilation. 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 airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. 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/clothing. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear appropriate protective clothing to prevent skin contact, such as coveralls or long sleeved shirt, long pants, and shoes and socks.
- Eye / face protection** : Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles; Safety glasses with side shields.
- Other protective equipment** : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.
- General hygiene considerations** : Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice. Contaminated work clothing must not be allowed out of the workplace.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Black liquid.
- Odour** : Odourless.
- Odour threshold** : N/Av
- pH** : 12
- Melting Point/Freezing point** : 0°C
- Initial boiling point and boiling range** : 100°C
- Flash point** : None.
- Flashpoint (Method)** : N/Av
- Evaporation rate (BuAe = 1)** : N/Av
- Flammability (solid, gas)** : Not considered flammable.
- Lower flammable limit (% by vol.)** : N/Av
- Upper flammable limit (% by vol.)** : N/Av
- Oxidizing properties** : None known.
- Explosive properties** : Not explosive
- Vapour pressure** : N/Av
- Vapour density** : N/Av
- Relative density / Specific gravity** : 1.0
- Solubility in water** : Soluble
- Other solubility(ies)** : Not available.
- Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : N/Av
- Auto-ignition temperature** : N/Av
- Decomposition temperature** : N/Av
- Viscosity** : 1 cSt @40°C
- Volatiles (% by weight)** : N/Av
- Volatile organic Compounds (VOC's)** : N/Av

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**Absolute pressure of container**

: N/Ap

**Flame projection length** : N/Ap

**Other physical/chemical comments**

: No additional information.

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : Not normally reactive.

**Chemical stability** : Stable under normal conditions.

**Possibility of hazardous reactions**

: Hazardous polymerization does not occur.

**Conditions to avoid** : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

**Incompatible materials** : Incompatible materials (see Section 7).

**Hazardous decomposition products**

: None known, refer to hazardous combustion products in Section 5.

### 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*

: Under normal conditions of use, harmful effects are not expected.

###### *Sign and symptoms ingestion*

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

###### *Sign and symptoms skin*

: Causes skin irritation. Symptoms may include redness, edema, and dermatitis (rash).

###### *Sign and symptoms eyes*

: Causes serious eye damage. Symptoms may include redness, pain, tearing and conjunctivitis.

##### **Potential Chronic Health Effects**

: None expected, when used as intended.

**Mutagenicity**

: Suspected of causing genetic defects.

**Carcinogenicity**

: Suspected of causing cancer.

Cobalt compounds are classified as possibly carcinogenic to humans by IARC (Group 2B).

##### **Reproductive effects & Teratogenicity**

: May damage fertility or the unborn child.

Contains cobalt compounds. Male reproductive toxin. Symptoms may include decreased relative testes weight, decreased sperm concentration, and testicular necrosis and degeneration. Numbers of pregnancies and implantation sites may be significantly reduced.

Contains: Boric acid may cause fetotoxic and teratogenic effects at dose which are not maternally toxic, based on animal data.

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**Sensitization to material** : May cause an allergic skin reaction.

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

May cause damage to organs through prolonged or repeated exposure by inhalation.

**Medical conditions aggravated by overexposure**

: Respiratory disease including asthma and bronchitis. Pre-existing skin, eye and respiratory disorders.

**Synergistic materials** : No information available.

**Toxicological data** : There is no data available for this product. The calculated ATE values for this mixture are: ATE oral = 3512 mg/kg

<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>
Ferrous sulfate	N/Av	237 mg/kg	N/Av
Potassium hydroxide	N/Av	205 mg/kg	> 1260 mg/kg
Boric Acid	>2.12 mg/L	2660 mg/kg	>2000 mg/kg
Zinc sulphate, monohydrate	N/Av	N/Av	N/Av
Copper sulfate	N/Av	300 mg/kg	N/Av
Manganese sulfate monohydrate	n/av	2150 mg/kg	n/av
Cobalt sulfate heptahydrate	N/Av	406-768 mg/kg	N/Av

**Other important toxicological hazards**

: None known or reported by the manufacturer.

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : Do not allow material to contaminate ground water system. See the following tables for individual ingredient ecotoxicity data.

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### Ecotoxicity data:

<u>Ingredients</u>	CAS #	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Ferrous sulfate	7720-78-7	96 Hr LC50 Poecilia reticulata: 925 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 0.56 mg/L [semi-static]	N/Av	None.
Potassium hydroxide	1310-58-3	80 mg/L (Mosquito fish)	N/Av	None.
Boric Acid	10043-35-3	79.1mg/L (Fathead minnow)	102 mg/L (Fathead minnow)	None.
Zinc sulphate, monohydrate	7446-19-7	N/Av	N/Av	N/Av
Copper sulfate	7758-98-7	96 Hr LC50 Oncorhynchus mykiss: 0.1 mg/L	N/Av	None.
Manganese sulfate monohydrate	10034-96-5	130 mg/L (Cyprinid)	N/Av	None.
Cobalt sulfate heptahydrate	10026-24-1	51.4 mg/L (Fathead minnow)	0.21 mg/L (Fathead minnow)	None.

<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Ferrous sulfate	7720-78-7	48 Hr EC50 Daphnia magna: 152 mg/L; 48 Hr EC50 Daphnia magna: 6.15 - 9.26 mg/L [Static]	N/Av	None.
Potassium hydroxide	1310-58-3	56 mg/L Ceriodaphnia (water flea)	N/Av	None.
Boric Acid	10043-35-3	102 mg/L (Daphnia magna)	11.2mg/L (Daphnia magna)	None.
Zinc sulphate, monohydrate	7446-19-7	N/Av	N/Av	N/Av
Copper sulfate	7758-98-7	48 Hr EC50 Daphnia magna: 0.0058 - 0.0073 mg/L [Static]	N/Av	None.
Manganese sulfate monohydrate	10034-96-5	N/Av	N/Av	None.
Cobalt sulfate heptahydrate	10026-24-1	429 mg/L (Daphnia magna)	N/Av	1



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<u>Ingredients</u>	<u>CAS #</u>	<u>Toxicity to Algae</u>		
		<u>EC50 / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
Ferrous sulfate	7720-78-7	N/Av	N/Av	None.
Potassium hydroxide	1310-58-3	N/Av	N/Av	None.
Boric Acid	10043-35-3	40mg/L (Green algae)	17.5mg/L (Green algae)	None.
Zinc sulphate, monohydrate	7446-19-7	N/Av	N/Av	N/Av
Copper sulfate	7758-98-7	N/Av	N/Av	N/Av
Manganese sulfate monohydrate	10034-96-5	61 mg/L/96 hours (Green algae)	N/Av	None.
Cobalt sulfate heptahydrate	10026-24-1	0.9 mg/L (Green algae)	0.2 mg/L (Green algae)	1

### Persistence and degradability

: No data is available on the product itself.

### Bioaccumulation potential

: The product itself has not been tested. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Cobalt sulfate heptahydrate (CAS 10026-24-1)	N/Av	N/Av
Boric Acid (CAS 10043-35-3)	0.175	No bioaccumulation expected
Ferrous sulfate (CAS 7720-78-7)	N/Av	N/Av
Potassium hydroxide (CAS 1310-58-3)	N/Av	N/Av
Copper sulfate (CAS 7758-98-7)	N/Av	N/Av
Manganese sulfate monohydrate (CAS 10034-96-5)	N/Av	N/Av

### Mobility in soil

: The product itself has not been tested.

### 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 waste according to recommendations in Section 7.

### 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.



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### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	not regulated	none	
TDG Additional information	None.				
49CFR/DOT	None.	Not regulated.	not regulated	none	
49CFR/DOT Additional information	None.				

**Special precautions for user** : Appropriate advice on safety must accompany the package.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

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

: Not applicable.

### SECTION 15 - REGULATORY INFORMATION

#### US Federal Information:

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

<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
Ferrous sulfate	7720-78-7	Yes	1000 lb/ 454 kg	N/Av	No	NS
Potassium hydroxide	1310-58-3	Yes	1000 lb/ 454 kg	None.	No	N/Ap
Boric Acid	10043-35-3	Yes	N/Ap	N/Av	No	No
Zinc sulphate, monohydrate	7446-19-7	NL	N/Ap	N/Av	No	NS
Copper sulfate	7758-98-7	Yes	10 lb/ 4.54 kg	N/Av	No	NS
Manganese sulfate monohydrate	10034-96-5	NL	N/Ap	N/Av	No	N/Ap
Cobalt sulfate heptahydrate	10026-24-1	NL	N/Ap	N/Av	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Eye Damage; Skin sensitization; Skin irritation; Carcinogenicity; Reproductive toxicity; Germ cell mutagenicity; Specific target organ toxicity, repeated exposure. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

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**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
Ferrous sulfate	7720-78-7	No	N/Ap	Yes	Yes	No	Yes	Yes	No
Potassium hydroxide	1310-58-3	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Boric Acid	10043-35-3	No	N/Ap	No	No	No	No	No	No
Zinc sulphate, monohydrate	7446-19-7	No	N/Ap	No	No	No	No	No	No
Copper sulfate	7758-98-7	No	N/Ap	Yes	Yes	No	Yes	Yes	No
Manganese sulfate monohydrate	10034-96-5	No	N/Ap	No	No	No	No	No	No
Cobalt sulfate heptahydrate	10026-24-1	Yes	Carcinogen	No	No	No	No	No	No

**Canadian Information:**

All ingredients listed appear on the Domestic Substances List (DSL) except:

10026-24-1

10034-96-5

**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
Ferrous sulfate	7720-78-7	231-753-5	Present	Present	(1)-359	KE-21121	Present	HSR003420
Potassium hydroxide	1310-58-3	215-181-3	Present	Present	(1)-369	KE-29139	Present	HSR001546
Boric Acid	10043-35-3	233-139-2	Present	Present	(1)-63	KE-03499	Present	HSR002995
Zinc sulphate, monohydrate	7446-19-7	N/Av	Present	Present	(1)-542	N/Av	Present	HSR003733
Copper sulfate	7758-98-7	231-847-6	Present	Present	(1)-300	KE-08956	Present	HSR003117
Manganese sulfate monohydrate	10034-96-5	N/Av	Present	Present	(1)-477	N/Av	Present	HSR004019
Cobalt sulfate heptahydrate	10026-24-1	N/Av	Present	Present	(1)-270	N/Av	Present	HSR003620

**SECTION 16. OTHER INFORMATION**

**Legend**

- : ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- 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%

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EINECS: European Inventory of Existing Commercial chemical Substances  
ENCS: Existing and New Chemical Substances  
EPA: Environmental Protection Agency  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
IBC: Intermediate Bulk Container  
IECSC: Inventory of Existing Chemical Substances  
IMDG: International Maritime Dangerous Goods  
IOC: Inventory of Chemicals  
KECI: Korean Existing Chemicals Inventory  
KECL: Korean Existing Chemicals List  
LC: Lethal Concentration  
LD: Lethal Dose  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NOEC: No observable effect concentration  
NTP: National Toxicology Program  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible exposure limit  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
RCRA: Resource Conservation and Recovery Act  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
SDS: 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
- 2. ECHA - European Chemical Agency
- 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases
- 4. Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists
- 6. California Proposition 65 List
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

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### Other special considerations for handling

- : Provide adequate information, instruction and training for operators.

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## SAFETY DATA SHEET

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