

# SAFETY DATA SHEET

Issuing Date 15-Dec-2017

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Revision Number 0

NGHS / English



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## 1. IDENTIFICATION

### Product identifier

**Product Name** Better-Gro Orchid Plus Fertilizer

### Other means of identification

**Product Code(s)** 1020895

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

**Recommended Use** Fertilizer

**Restrictions on use** No information available

### Details of the supplier of the safety data sheet

**Supplier Identification** Sun Bulb Company, Inc.

**Address** P.O. Box 698  
Arcadia  
Florida  
34265  
United States

**Telephone** Phone:863-494-4022  
Fax:863-494-7568

**E-mail** TTaylor@sunbulb.com

### Emergency telephone number

**Company Emergency Phone Number** 863-494-4022

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2A
Oxidizing solids	Category 2



**Appearance** Blue green**Physical state** Granular Solid**Odor** No information available**GHS Label elements, including precautionary statements****Danger****Hazard statements**

Harmful if inhaled  
Causes serious eye irritation  
May intensify fire; oxidizer

**Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Wash face, hands and any exposed skin thoroughly after handling  
Keep away from heat  
Keep/Store away from clothing/ combustible materials  
Take any precaution to avoid mixing with combustibles  
Wear protective gloves/eye protection/face protection

**Precautionary Statements - Response****Eyes**

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

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
Call a POISON CENTER or doctor if you feel unwell

**Fire**

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other information**

May be harmful if swallowed.

**Unknown acute toxicity** 98.25 % of the mixture consists of ingredient(s) of unknown toxicity  
5.1 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
98.25 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
98.25 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
98.25 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
96.65 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

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

Not applicable.

### Mixture

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Ammonium nitrate	6484-52-2	39.95	-	-
Sodium iron(III) ethylenetetraacetate	15708-41-5	1.6	-	-
Boric acid (H <sub>3</sub> BO <sub>3</sub> )	10043-35-3	0.13	-	-

## 4. FIRST AID MEASURES

### First aid measures

#### **General advice**

Show this safety data sheet to the doctor in attendance.

#### **Inhalation**

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. If symptoms persist, call a physician.

#### **Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

#### **Skin contact**

IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.

#### **Ingestion**

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.

#### **Self-protection of the first aider**

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray.

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

#### **Symptoms**

Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

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

#### **Note to physicians**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use water. Do not use dry chemicals or foams. CO<sub>2</sub> or Halon may provide limited control. Flood fire area with water from a distance. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out.

#### **Unsuitable extinguishing media**

Dry chemical. Foam. CAUTION: Use of water spray when fighting fire may be inefficient.

#### **Specific hazards arising from the chemical**

These substances will accelerate burning when involved in a fire. Some may decompose explosively when heated or involved in a fire. May ignite combustibles (wood paper, oil,



clothing, etc.). Runoff may create fire or explosion hazard.

**Hazardous Combustion Products** Carbon oxides.

**Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** Yes.

**Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. Do not move cargo or vehicle if cargo has been exposed to heat. oxidizer. May ignite combustibles (wood paper, oil, clothing, etc.). Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions**

Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See section 8 for more information. Stop leak if you can do it without risk. Use personal protective equipment as required. Avoid generation of dust. Do not breathe dust.

**Other Information**

Keep combustibles (wood, paper, oil, etc) away from spilled material. Do not get water inside containers. Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

### Methods and material for containment and cleaning up

**Methods for containment**

Stop leak if you can do it without risk. Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.

**Methods for cleaning up**

With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Flush area with flooding quantities of water. Prevent product from entering drains. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling**

Use personal protection equipment. Avoid contact with skin, eyes or clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid generation of dust.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Do not store near combustible materials. Store in accordance with the



particular national regulations. Store in accordance with local regulations. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Sodium iron(III) ethylenetetraacetate 15708-41-5	TWA: 1 mg/m <sup>3</sup> Fe	(vacated) TWA: 1 mg/m <sup>3</sup> Fe	TWA: 1 mg/m <sup>3</sup> Fe	
Boric acid (H <sub>3</sub> BO <sub>3</sub> ) 10043-35-3	TWA: 2 mg/m <sup>3</sup> inhalable fraction STEL: 6 mg/m <sup>3</sup> inhalable fraction	-		
Chemical name	Alberta	British Columbia	Ontario TWAEV	Quebec
Sodium iron(III) ethylenetetraacetate 15708-41-5	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 1.0 mg/m <sup>3</sup>
Boric acid (H <sub>3</sub> BO <sub>3</sub> ) 10043-35-3		TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	

**Other Exposure Guidelines** See section 15 for national exposure control parameters.

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Wear fire/flame resistant/retardant clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

**Physical state** Granular; Solid  
**Appearance** Blue green



Odor No information available  
 Color No information available  
 Odor Threshold Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
pH	No data available	
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	No data available	
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	45.1	
Water Solubility	Soluble in water	
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/water	0	
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

Other Information

Explosive properties No information available  
 Oxidizing properties No information available  
 Softening Point No information available  
 Molecular Weight No information available  
 VOC Content (%) No information available  
 Liquid Density No information available  
 Bulk Density No information available  
 Particle Size No information available  
 Particle Size Distribution No information available

**10. STABILITY AND REACTIVITY**

Reactivity oxidizer.  
 Chemical stability May cause fire or explosion; strong oxidizer.  
 Possibility of Hazardous Reactions None under normal processing.  
 Hazardous Polymerization Hazardous polymerization does not occur.  
 Conditions to avoid Heat, flames and sparks. Incompatible materials. Excessive heat.  
 Incompatible materials Organic material. Combustible material. Hydrocarbons.  
 Hazardous Decomposition Products Carbon oxides.

**11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure

Product Information



<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Information on toxicological effects**

**Symptoms** May cause redness and tearing of the eyes. Coughing and/ or wheezing.

**Numerical measures of toxicity****Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	3,144.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	3.10 mg/L

**Unknown acute toxicity** 98.25 % of the mixture consists of ingredient(s) of unknown toxicity  
 5.1 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 98.25 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 98.25 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 98.25 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 96.65 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium nitrate	= 2217 mg/kg ( Rat )	-	> 88.8 mg/L ( Rat ) 4 h
Sodium iron(III) ethylenetetraacetate	> 5000 mg/kg ( Rat ) = 5 g/kg ( Rat )	> 5000 mg/kg ( Rat )	> 2.05 g/m <sup>3</sup> ( Rat ) 4 h
Boric acid (H3BO3)	= 2660 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 2.03 mg/L ( Rat ) 4 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	May cause skin irritation.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Irritating to eyes.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Ammonium nitrate 6484-52-2	-	Group 2A	-	X

**Legend**

**IARC (International Agency for Research on Cancer)**  
 Group 2A - Probably Carcinogenic to Humans

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ammonium nitrate	-	48h LC50: 65 - 85 mg/L (Cyprinus carpio)	-	-
Boric acid (H3BO3)	-	72h LC50: = 1020 mg/L (Carassius auratus)	-	48h EC50: 115 - 153 mg/L

**Persistence and Degradability** No information available.

**Bioaccumulation**

Chemical name	Log Pow
Ammonium nitrate	-3.1
Boric acid (H3BO3)	-0.757

**Mobility** No information available.

**Other adverse effects** No information available.

**13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

**Waste from residues/unused products** Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**US EPA Waste Number** D001

**California Waste Codes** 141

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste
Ammonium nitrate 6484-52-2	Ignitable Reactive
Boric acid (H3BO3) 10043-35-3	Toxic





## 14. TRANSPORT INFORMATION

**DOT**

<b>Proper Shipping Name</b>	CONSUMER COMMODITY
<b>Hazard Class</b>	ORM-D
<b>Description</b>	CONSUMER COMMODITY, ORM-D
<b>Emergency Response Guide Number</b>	140

**TDG**

<b>UN-No.</b>	UN1477
<b>Proper Shipping Name</b>	NITRATES, INORGANIC, N.O.S.
<b>Hazard Class</b>	5.1
<b>Packing Group</b>	II
<b>Description</b>	UN1477, NITRATES, INORGANIC, N.O.S., 5.1, II

**MEX**

<b>UN-No.</b>	UN1477
<b>Proper Shipping Name</b>	NITRATES, INORGANIC, N.O.S.
<b>Hazard Class</b>	5.1
<b>Packing Group</b>	II
<b>Description</b>	UN1477, NITRATES, INORGANIC, N.O.S., 5.1, II

**ICAO**

<b>UN-No.</b>	UN1477
<b>Proper Shipping Name</b>	NITRATES, INORGANIC, N.O.S.
<b>Hazard Class</b>	5.1
<b>Packing Group</b>	II
<b>Description</b>	UN1477, NITRATES, INORGANIC, N.O.S., 5.1, II

**IATA**

<b>UN-No.</b>	UN1477
<b>Proper Shipping Name</b>	NITRATES, INORGANIC, N.O.S.
<b>Hazard Class</b>	5.1
<b>Packing Group</b>	II
<b>ERG Code</b>	5L
<b>Description</b>	UN1477, NITRATES, INORGANIC, N.O.S., 5.1, II

**IMDG/IMO**

<b>UN-No.</b>	UN1477
<b>Proper Shipping Name</b>	NITRATES, INORGANIC, N.O.S.
<b>Hazard Class</b>	5.1
<b>Packing Group</b>	II
<b>EmS-No.</b>	F-A, S-Q
<b>Description</b>	UN1477, NITRATES, INORGANIC, N.O.S., 5.1, II

**RID**

<b>UN-No.</b>	UN1477
<b>Proper Shipping Name</b>	NITRATES, INORGANIC, N.O.S.
<b>Hazard Class</b>	5.1
<b>Packing Group</b>	II
<b>Classification code</b>	O2
<b>Description</b>	UN1477, NITRATES, INORGANIC, N.O.S., 5.1, II
<b>ADR/RID-Labels</b>	5.1

**ADR**

<b>UN-No.</b>	UN1477
<b>Proper Shipping Name</b>	NITRATES, INORGANIC, N.O.S.



**Hazard Class** 5.1  
**Packing Group** II  
**Classification code** O2  
**Tunnel restriction code** (E)  
**Description** UN1477, NITRATES, INORGANIC, N.O.S., 5.1, II, (E)

**ADN**

**UN-No.** UN1477  
**Proper Shipping Name** NITRATES, INORGANIC, N.O.S.  
**Hazard Class** 5.1  
**Packing Group** II  
**Classification code** O2  
**Special Provisions** 511  
**Description** UN1477, NITRATES, INORGANIC, N.O.S., 5.1, II  
**Hazard Labels** 5.1  
**Limited Quantity** 1 KG

## 15. REGULATORY INFORMATION

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

#### International Regulations

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

#### International Inventories

**TSCA** Contact supplier for inventory compliance status.  
**DSL/NDSL** Contact supplier for inventory compliance status.  
**EINECS/ELINCS** Contact supplier for inventory compliance status.  
**ENCS** Contact supplier for inventory compliance status.  
**KECL** Contact supplier for inventory compliance status.  
**PICCS** Contact supplier for inventory compliance status.  
**AICS** Contact supplier for inventory compliance status.

#### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

#### US Federal Regulations

##### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Ammonium nitrate - 6484-52-2	6484-52-2	39.95	1.0

##### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate



classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Ammonium nitrate 6484-52-2	X	X	X	X	X
Boric acid (H3BO3) 10043-35-3	X				X

**16. OTHER INFORMATION**

<b>NFPA</b>	Health hazards 2	Flammability 1	Instability 1	Physical and Chemical Properties OX
<b>HMIS</b>	Health hazards 2	Flammability 1	Physical hazards 1	Personal Protection X

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Issuing Date** 15-Dec-2017

**Revision Date** 15-Dec-2017

**Revision Note** No information available

**Disclaimer**

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

**End of Safety Data Sheet**



# SAFETY DATA SHEET

Issuing Date No data available

Revision Date 14-Dec-2017

Revision Number 0

NGHS / English



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## 1. IDENTIFICATION

### Product identifier

**Product Name** Better-Gro Orchid Better Bloom

### Other means of identification

**Product Code(s)** 1020896

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

**Recommended Use** Plant food

**Restrictions on use** No information available

### Details of the supplier of the safety data sheet

**Supplier Identification** Sun Bulb Company, Inc.

**Address** P.O. Box 698  
Arcadia  
Florida  
34265  
United States

**Telephone** Phone:863-494-4022  
Fax:863-494-7568

**E-mail** TTaylor@sunbulb.com

### Emergency telephone number

**Company Emergency Phone Number** 863-494-4022

## 2. HAZARDS IDENTIFICATION

### Classification

Not classified.

The product contains no substances which at their given concentration, are considered to be hazardous to health



**Appearance** Blue green**Physical state** Granular Solid**Odor** Slight**GHS Label elements, including precautionary statements****Hazard statements**

Not classified.

**Other information**

May be harmful if swallowed.

**Unknown acute toxicity** 97.973 % of the mixture consists of ingredient(s) of unknown toxicity  
 6 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 97.973 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 97.973 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 97.973 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 97.973 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

**Mixture**

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Citric acid	77-92-9	1.923	-	-
Boric acid (H3BO3)	10043-35-3	0.125	-	-

### 4. FIRST AID MEASURES

**First aid measures**

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact** Wash skin with soap and water.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

**Most important symptoms and effects, both acute and delayed****Symptoms** No information available.

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

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical** No information available.

**Hazardous Combustion Products** Carbon oxides.

**Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with eyes.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Limits** .



Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Boric acid (H3BO3) 10043-35-3	TWA: 2 mg/m <sup>3</sup> inhalable fraction STEL: 6 mg/m <sup>3</sup> inhalable fraction	-		
Chemical name	Alberta	British Columbia	Ontario TWAEV	Quebec
Boric acid (H3BO3) 10043-35-3		TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	

**Appropriate engineering controls**

**Engineering controls**                      Showers  
    Eyewash stations  
    Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**                      No special protective equipment required.

**Skin and body protection**                      No special protective equipment required.

**Respiratory protection**                      No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**                      Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical and Chemical Properties**

**Physical state**                                      Granular; Solid  
**Appearance**                                      Blue green  
**Odor**    Slight  
**Color**    No information available  
**Odor Threshold**                                      No information available

<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
<b>pH</b>	No data available	
<b>Melting / freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	No data available	None known
<b>Flash Point</b>	No data available	
<b>Evaporation Rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability limit</b>	No data available	
<b>Lower flammability limit</b>	No data available	
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Relative density</b>	No data available	None known
<b>Water Solubility</b>	Soluble in water	
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>		
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known

**Other Information**

**Explosive properties**                                      No information available  
**Oxidizing properties**                                      No information available

<b>Softening Point</b>	No information available
<b>Molecular Weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Liquid Density</b>	No information available
<b>Bulk Density</b>	No information available
<b>Particle Size</b>	No information available
<b>Particle Size Distribution</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	None known based on information supplied.
<b>Incompatible materials</b>	None known based on information supplied.
<b>Hazardous Decomposition Products</b>	Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.

### Information on toxicological effects

<b>Symptoms</b>	No information available.
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### Numerical measures of toxicity

#### Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	4,660.00 mg/kg
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<b>Unknown acute toxicity</b>	97.973 % of the mixture consists of ingredient(s) of unknown toxicity
	6 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
	97.973 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
	97.973 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
	97.973 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
	97.973 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Component Information





Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Citric acid	= 3000 mg/kg ( Rat ) = 3 g/kg ( Rat )	-	-
Boric acid (H3BO3)	= 2660 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 2.03 mg/L ( Rat ) 4 h

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Citric acid	-	96h LC50: = 1516 mg/L (Lepomis macrochirus)	-	72h EC50: = 120 mg/L
Boric acid (H3BO3)	-	72h LC50: = 1020 mg/L (Carassius auratus)	-	48h EC50: 115 - 153 mg/L

**Persistence and Degradability** No information available.

#### **Bioaccumulation**

Chemical name	Log Pow
Citric acid	-1.72
Boric acid (H3BO3)	-0.757

**Mobility** No information available.

**Other adverse effects** No information available.

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

California Waste Codes 141

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste
Boric acid (H3BO3) 10043-35-3	Toxic

**14. TRANSPORT INFORMATION**

<b>DOT</b> Proper Shipping Name Hazard Class	NOT REGULATED NON REGULATED N/A
<b>TDG</b>	Not regulated
<b>MEX</b>	Not regulated
<b>ICAO</b>	Not regulated
<b>IATA</b> Proper Shipping Name Hazard Class	Not regulated NON REGULATED N/A
<b>IMDG/IMO</b> Hazard Class	Not regulated N/A
<b>RID</b>	Not regulated
<b>ADR</b>	Not regulated
<b>ADN</b>	Not regulated

**15. REGULATORY INFORMATION**

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

**International Regulations**

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

**International Inventories**

<b>TSCA</b>	Contact supplier for inventory compliance status.
<b>DSL/NDSL</b>	Contact supplier for inventory compliance status.
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status.
<b>ENCS</b>	Contact supplier for inventory compliance status.
<b>KECL</b>	Contact supplier for inventory compliance status.
<b>PICCS</b>	Contact supplier for inventory compliance status.
<b>AICS</b>	Contact supplier for inventory compliance status.

**Legend**



**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Citric acid 77-92-9			RQ Section number 180.950

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **U.S. State Right-to-Know Regulations**

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Boric acid (H3BO3) 10043-35-3	X				X

## 16. OTHER INFORMATION

<b>NFPA</b>	Health hazards 1	Flammability 0	Instability 0	Physical and Chemical Properties -
<b>HMIS</b>	Health hazards 1	Flammability 0	Physical hazards 0	Personal Protection X

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**Revision Date** 14-Dec-2017

**Revision Note** No information available

**Disclaimer**

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

**End of Safety Data Sheet**