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## Section 1. Product and Company Information

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**Contact:** OrganicPond.com  
33769 Groesbeck Hwy  
Fraser, MI 48026  
888-986-9995

**Product Name:** pureBACTERIA+™

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## Section 2. Hazards Identifications

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**Emergency overview** **WARNING**  
**EYE AND SKIN IRRITANT**

**Acute Effects of Overexposure**  
**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.  
**Eyes** Causes pain, irritation and redness to corneal membrane.  
**Skin** May cause redness or irritation. Prolonged contact may cause dermatitis.  
**Inhalation** Excessive intentional inhalation of mist or vapors may cause respiratory tract irritation.  
**Ingestion** May cause stomach distress, nausea or vomiting.

**Target organs** Eyes. Skin. Bronchial tubes.  
**Chronic effects of Overexposure** Prolonged or repeated exposure can cause irritation of eyes, skin and bronchial tubes.

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## 3. Composition / Information on Ingredients

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Ingredient(s)	CAS # Percent
Acetic Acid	64-19-7 1
	All other components have been determined to pose no potential hazard and occur less than 1% in the formulation

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## 4. First Aid Measures

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**First aid procedures**

**Eye contact** Flush with cool water. Remove contact lenses, if applicable, and continue flushing for at least 15 minutes. Obtain medical attention if irritation persists.

**Skin contact** Wash contaminated area with running water. Obtain medical attention if irritation persists.

**Inhalation** If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

**Ingestion** Consume water to dilute acid. Obtain medical attention.

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## 5. Fire Fighting Measures

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**Flammable properties** Not flammable by OSHA criteria in aqueous form.  
Concentration of components by heat or dehydration of spilled product may produce combustible material.

**Extinguishing media** Suitable extinguishing media Water, foam CO<sub>2</sub>, or dry chemical.

**Protection of firefighters** Protective equipment for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.

**Hazardous combustion products** Carbon dioxide and carbon monoxide. Potentially toxic fumes.

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## 6. Accidental Release Measures

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<b>Personal precautions</b>	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Physical blockage of leaked material with non-reactive absorbent material.
<b>Methods for cleaning up</b>	Before attempting clean up, refer to hazard data given above. Small spills may be diluted with water and absorbed with non-reactive absorbent and placed in suitable, covered, labeled containers. Never return spills in original containers for re-use.

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## 7. Handling and Storage

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<b>Handling</b>	Avoid contact with eyes and skin. Keep container closed. Wash thoroughly after handling. Mechanical ventilation should be used to keep acetic acid concentration below 10 ppm in the air.
<b>Storage</b>	Keep out of reach of children. Keep container in cool and well ventilated area. Keep container tightly closed. Store away from alkaline materials, metals and strong oxidizing agents.

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## 8. Exposure Controls / Personal Protection

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<b>Exposure limits</b>	<b>Exposure Limits</b>
<b>Ingredient(s)</b>	<b>OSHA-PEL</b>
Acetic Acid	10 ppm (parts of gas per million parts air by volume), 8-hour time weighted average. Based on ideal gas equations an open 1% acetic acid solution in an unventilated room would be in equilibrium at 65 ppm acetic acid in the air.
<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	Wear safety glasses with side shields.
<b>Hand protection</b>	Rubber gloves. Confirm with a reputable supplier first.
<b>Skin and body protection</b>	Protective clothing.
<b>Respiratory protection</b>	Avoid breathing vapors, use respirator in poorly ventilated areas.

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Tan Liquid
<b>Odor</b>	Vinegar
<b>pH</b>	2.5 - 3.5
<b>Freezing point</b>	30 °F
<b>Boiling point</b>	210 °F
<b>Evaporation rate</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	0.95
<b>VOC content (%)</b>	1%
<b>Solubility in water</b>	soluble

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## 10. Stability and Reactivity

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<b>Chemical stability</b>	Stable
<b>Incompatible materials</b>	Strong oxidizing agents, alkaline materials, metals
<b>Polymerization</b>	Will not occur
<b>Hazardous decomposition products</b>	Carbon dioxide and carbon monoxide.

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## 11. Toxicological Information

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### Toxicity to Animals

#### Component analysis:

Oral (LD 50):

Acetic Acid                    64-19-7                    3.53 g/Kg Rat

Dermal (LD 50):

Acetic Acid                    64-19-7                    31.06 g/Kg Rat

Product analysis: Based on toxicity of Acetic Acid at 1% in the final product, the LD50 would be 353 g/Kg rat oral.

### Effects of acute exposure

Eye                    Causes irritation, redness and tearing.  
Skin                    May cause irritation.  
Inhalation            May be irritating to respiratory tract.  
Ingestion            Irritation of gastrointestinal tract, nausea, and diarrhea.

### Chronic effects

The finished product expected to have chronic health effects similar to acute effects.

### Carcinogenicity

The finished product is not listed on IARC or NTP lists of carcinogens.

### Mutagenicity

There is no availability evidence of ingredients being mutagenic.

### Reproductive effects

There is no available evidence of ingredients causing reproductive effects.

### Teratogenicity

There is no available evidence of ingredients being teratogenic.

### Name of Toxicologically

Synergistic Products            Not available

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## 12. Ecological Information

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### Ecotoxicity See below

#### Ecotoxicity - Freshwater Fish - Acute Toxicity Data

#### Fish

Acetic Acid            64-19-7                    Fathead Minnow (LC50) 0.088-0.315 g/L

#### Zooplankton

Acetic Acid            64-19-7                    Daphnia (LC50) 0.047 g/L

### Persistence / degradability Readily degradable

Based on toxicity of Acetic Acid at 1% in the final product, the LC50 would be 8.8-31.5 g final product per liter for the Fathead Minnow and 4.7 g/L for Daphnia.

### Biodegradable Readily degradable

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## 13. Disposal Considerations

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**Disposal instructions**            Liquid wastes are not permitted in landfills. Consult local, state and federal agencies for proper disposal in your area.

**Classification**                    non-hazardous waste

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## 14. Transport Information

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### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.



## 15. Regulatory Information

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

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

Acetic acid 64-19-7 5000 Lb final RQ

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

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

**Section 302 extremely**

**hazardous substance** No

**Section 311 hazardous chemical** Yes

**State regulations**

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**

Acetic acid 64-19-7 Exempt – concentration less than 10% or included in food.

**U.S. - Louisiana - Reportable Quantity List for Pollutants**

Acetic acid 64-19-7 5000 Lb final RQ

**U.S. - Massachusetts – Toxic or Hazardous Substance List**

Acetic Acid 64-19-7 Exempt-concentration less than 12%

**U.S. - Minnesota – Toxic or Hazardous Substance List**

Acetic Acid 64-19-7 Present

**U.S. - New Jersey - Right to Know Hazardous Substance List**

Acetic Acid 64-19-7 sn 0004

**U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances**

Acetic acid 64-19-7 5000 Lb RQ (air); 100 lb RQ (land/water)

**U.S. – North Carolina – Toxic Air Pollutants**

Acetic Acid 64-19-7 Acute irritant 3.7 mg/m3

**U.S. - Rhode Island – Hazardous Substance List**

Acetic Acid 64-19-7 Present

**U.S. - Pennsylvania – Hazardous Substance List**

Acetic Acid 64-19-7 Hazardous, 5000Lb Rq

Reportable Quantity: The reportable quantity of the formulated product would be 500,000 Lb in accordance with regulations with a 500,000 Lb RQ for acetic acid based upon the product containing 1% acetic acid.

**Inventory name**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
USA/ 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