



# Safety Data Sheet

## Biogas1

Revision Date 4/19/2022

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product Identifiers

Product Name : Biogas1

Synonyms : None

Product Form : Liquid

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Increases methane production in anaerobic digesters

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

Company : Aquafix Inc.  
2310 Daniels St.  
Madison WI 53718  
USA

Telephone: : +1 888-757-9577  
Monday-Friday  
7:30am-4:00pm CST

#### 1.4 Emergency telephone number

Emergency Phone# : Chemtrec +1 800-424-9300

### 2. HAZARD IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Carcinogen (Category 1)

Acute toxicity, Oral (Category 4)

Skin sensitization (Category 1)

Respiratory sensitization (Category 1)

Reproductive toxicity (Category 1)

Eye damage/ irritation (Category 2)

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word : Danger

Hazard Statement(s) : Harmful if swallowed. May cause eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer. May cause an allergic skin reaction. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

Precautionary Statement(s) : Do not breathe dust/mist/vapor/spray. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink, or smoke while handling. Keep away from heat/sparks/open flames/hot surfaces. In case of inadequate ventilation wear respiratory protection. Avoid release into environment.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**

None

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

**Hazardous Components**

Component	Cas-No.	Concentration %	OSHA PEL	ACGIH TLV
Proprietary mixture of metal salts	N/A	40-50%	.05 mg/m <sup>3</sup>	.02 mg/m <sup>3</sup>
Organic Compounds	N-A	25-35%	15mg/m <sup>3</sup> (total)* 5mg/m <sup>3</sup> (respirable)*	10 mg/m <sup>3</sup> *
Sodium Nitrate	7631-99-4	7-10%	15mg/m <sup>3</sup> (total)* 5mg/m <sup>3</sup> (respirable)*	10 mg/m <sup>3</sup> *

\*This TLV applies to nuisance particulate particulates not otherwise regulated

**Ingredients not precisely identified are proprietary or non-hazardous. Product formulation consists of listed materials and non-hazardous ingredients.**

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**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

**General advice**

Wear adequate personal protective equipment.

**In case of skin contact**

Flush effected area with water, remove contaminated clothing. Flush effected area with cool water for 15 minutes. Wash thoroughly with soap and water. If effected area is irritated or red consult a physician.

### **In case of eye contact**

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Consult a physician.

### **If Inhaled**

Remove victim to fresh air, if unconscious give artificial respiration. Consult a physician.

### **If Ingested**

If conscious, induce vomiting. Keep air way clean. Consult a physician immediately.

## **4.2 Most important symptoms and effects both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

None known. If any symptoms persist, seek medical attention.

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## **5. FIREFIGHTING MEASURES**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Use water, water spray, foam, carbon dioxide (CO<sub>2</sub>), or dry powder.

#### **Unsuitable extinguishing media**

None

### **5.2 Special hazards arising from the substance or mixture**

Irritating and highly toxic gasses may be generated by thermal decomposition.

### **5.3 Special protective equipment for firefighters**

Wear special clothing and self-contained breathing apparatus.

### **5.4 Further Information**

**Flash Point (°C)** : Does not flash

**Autoignition temperature (°C)** : Not applicable

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## **6. ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### **6.3 Method and materials for clean up**

Maintain good housekeeping practices. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Wear personal protection equipment.

### 7.2 Conditions for safe storage

#### Risks

Not at risk for corrosion, fire, explosion, or chemical reaction.

#### Place of storage

No special instructions to minimize risks.

#### Fire/explosion protection

None needed

### 7.3 Specific end use

None

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with work place parameters

None

### 8.2 Exposure controls

#### Engineering controls

Handle in accordance with good industrial hygiene and safety practice.

#### Personal Protective Equipment

**Eye/face protection** : Safety glasses, goggles, or face shield

**Skin** : **Hand:** Handle with disposable gloves  
**Other:** Wear appropriate clothing for work

**Respiratory protection** : NIOSH or MSHA approved respirator

**Thermal protection** : None

**Environmental exposure** : None

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## 9. PHYSICAL & CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Appearance** : Rust colored liquid

**Odor** : Sour, earthy smell

**Solubility** : Highly Soluble

**Boiling point** : No data available

**pH** : 4.0

**Vapor density** : No data available

**Melting point** : No data available

**Vapor pressure** : No data available

**Specific Gravity** : 1.0 gr/cc

## 9.2 Other information

None

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## 10. STABILITY AND REACTIVITY

10.1 Reactivity : None

10.2 Chemical Stability : Stable

10.3 Possibility of hazardous reactions : None

10.4 Conditions to avoid : Strong acids or bases

### 10.5 Incompatible materials

Strong acids or bases. Acids or alkalis may break down biochemical catalysts and inactivate bacterial cultures.

10.6 Hazardous decomposition products: None

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity** : No data available

**Skin corrosion/irritation** : No data available

**Eye damage/irritation** : May cause eye irritation

#### Respiratory/skin sensitization

Probability or evidence of low to moderate skin and respiratory sensitization rate in humans.

#### Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

#### Reproductive toxicity

This product contains a component that is a presumed human reproductive toxicant.

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## 12. ECOLOGICAL INFORMATION

Test Species	Toxicity Value Type	Toxicity Value	Toxicity Value Units	Exposure
<i>Ceriodaphnia dubia</i>	LC50	4574.3	mg/L	48 hours
<i>Pimephales promelas</i>	LC50	2980.8	Mg/L	96 hours

12.1 Toxicity : No known information is available

12.2 Persistence and degradability : No known information is available

12.3 Bioaccumulative potential : No known information is available

12.4 Mobility in soil : No known information is available

12.5 Results of PBT and vPvB assessment: No known ecological information is available

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product and packaging can be disposed of in regular trash. No special disposal method required. Follow all applicable local laws for recycling, bagging, and disposal of trash.

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## 14. TRANSPORTATION INFORMATION

14.1	UN NUMBER	Not relevant
14.2	UN proper shipping name	Not relevant
14.3	Transportation hazard class	Not classified as dangerous
14.4	Packing group	Not relevant
14.5	Environmental hazards	None
14.6	Special precautions	None
14.7	Further Information	None

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## 15. REGULATORY INFORMATION

**Sara/Title III – CERCLA LIST of Hazardous Substances and Reportable Quantities (40CFR304.4):** This product **does not** contain an ingredient(s) in a quantity listed as a hazardous ingredient for Emergency Release Notification under section 304

**Sara/Title III – List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 300 & 305):** This product **does not** contain an ingredient(s) in a quantity listed as an extremely hazardous substances (EHS) for Emergency Planning under sections 301-303 and for Emergency Release Notification under section 304.

**Sara/Title III – List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372):** This product **does not** contain an ingredient(s) in a quantity listed as a toxic chemical for Annual Release Reporting Requirements under section 313.

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## 16. OTHER INFORMATION

*The information in this SDS was obtained from sources which we believe to be reliable. However, the information is provided without any warranty expressed or implied regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself.*

*This SDS was prepared and is to be used only for this product. No representation, warranty, or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness. We assume no responsibility for any loss, damage or expense direct or consequential arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.*