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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Cas-No.</th>
<th>Concentration %</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary mixture of metal salts</td>
<td>N/A</td>
<td>40-50%</td>
<td>.05 mg/m³</td>
<td>.02 mg/m³</td>
</tr>
<tr>
<td>Organic Compounds</td>
<td>N-A</td>
<td>25-35%</td>
<td>15mg/m³ (total)*</td>
<td>10 mg/m³*</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5mg/m³ (respirable)*</td>
<td></td>
</tr>
<tr>
<td>Sodium Nitrate</td>
<td>7631-99-4</td>
<td>7-10%</td>
<td>15mg/m³ (total)*</td>
<td>10 mg/m³*</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5mg/m³ (respirable)*</td>
<td></td>
</tr>
</tbody>
</table>

*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.

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 (CO2), 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 decompression.

#### 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
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

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

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

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

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.

12. ECOLOGICAL INFORMATION
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

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.

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

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.

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 suitableness and completeness of such information for his own particular use.