



Safety Data Sheet

Biogas1

Revision Date 6/30/2015

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

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

*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, non-hazardous ingredients, and naturally occurring microorganisms.

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.

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 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

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 enzymes 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.

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
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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.

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