

# **SAFETY DATA SHEET**

US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Issuing Date 13-June-2023 Revision Date 13-May-2023 Revision Number 5

### 1. Identification

**Product identifier** 

Product Name Biogas1

Other means of identification

UN/ID no UN3082

Synonyms None

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

Recommended use Increases methane production in anaerobic digesters

**Restrictions on use** For professional use only

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

### **Manufacturer Address**

Aquafix Inc. 2310 Daniels St. Madison WI 53718 USA 1-888-757-9577

<u>E-mail</u> info@teamaquafix.com

Emergency telephone number Chemtrec 1-800-424-9300

### 2. Hazard(s) identification

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1

### **Label elements**

Danger

### **Hazard statements**

Harmful if swallowed. Harmful if inhaled.

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Causes skin irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

May cause cancer.

May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.



### **Precautionary Statements - Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection and face protection. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing must not be allowed out of the workplace. Do not breathe dust, fume, gas, mist, vapors, and spray.

#### **Precautionary Statements - Response**

Specific treatment (see supplemental first aid instructions on this label). IF exposed or concerned: Get medical advice/attention. **Skin** 

**IF** ON SKIN: Wash with plenty of water and soap. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice and attention.

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

### **Precautionary Statements - Storage**

Store locked up.

### **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant.

### Unknown acute toxicity

61.06 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Other information

Very toxic to aquatic life with long lasting effects Very toxic to aquatic life

## 3. Composition/information on ingredients

### Substance

Not applicable.

### **Mixture**

Component	CAS No.	Concentration %	OSHA PEL	ACGIH TLV
Proprietary mixture of metal salts	N/A	60-70%	.05 mg/m³	.02 mg/m <sup>3</sup>
Organic compounds	N/A	1-2%	15 mg/m³ (total)* 5 mg/m³ (respirable)*	10 mg/m³*

This TLV applies to nuisance particulate particulates not otherwise regulated Ingredients not precisely identified are proprietary or non-hazardous.

### 4. First-aid measures

#### Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

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medical advice/attention.

Inhalation May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration.

Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use

barrier to give mouth-to-mouth resuscitation. Get immediate medical attention.

Eye contact Skin contact Rinse thoroughly with plenty of water, also under the eyelids.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. May produce an allergic reaction. Get immediate 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. Avoid contact with skin, eyes, or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. Avoid

breathing vapors or mists.

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

**Symptoms** May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or

wheezing. Itching. Rashes. Hives. Difficulty in breathing.

**Effects of Exposure** No information available.

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

Note to physicians May cause sensitization in susceptible persons. 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 No information available.

Specific hazards arising from the

Chemical

Product is or contains a sensitizer. May cause sensitization by inhalation. May cause

sensitization by skin contact.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge

Special protective equipment and precautions 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 procedure

Avoid contact with skin, eyes, or clothing. Ensure adequate ventilation. Use personal Personal precautions

protective equipment as required. Evacuate personnel to safe areas. Keep people away from

and upwind of spill/leak. Avoid breathing vapors or mists.

Other information Refer to protective measures listed in Sections 7 and 8.

#### 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. Avoid contact with

skin, eyes, or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear

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suitable respiratory equipment. Do not eat, drink, or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes. Avoid breathing vapors, or mists.

### Conditions for safe storage, including any incompatibilities.

Storage Conditions Keep from freezing. Store at room temperature. Keep at temperatures between 4 and 35 C.

### 8. Exposure controls/personal protection

**Control parameters** 

Exposure Limit None

Biological occupational exposure

limits

None

**Appropriate engineering controls** 

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves. Impervious gloves

**Skin and body protection**Wear suitable protective clothing. Long sleeved clothing.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations

Avoid contact with skin, eyes, or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink, or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.

### 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance

Physical state Liquid
Color Orange/brown
Odor Earthy, sour

Odor threshold No information available

Autoignition temperature

Property Decomposition temperature PH Dynamic viscosity Values 5.0

Melting point/ freezing point Kinematic viscosity

Initial boiling point and boiling range 100°C / 212°F

Flash point Evaporation rate Flammability

Flammability Limit in Air

Upper flammability or explosive

limits

Lower flammability or explosive

limits

Vapor pressure Vapor density

Relative density

1.0 gr/cc

Water solubility

Soluble

Solubility(ies)
Partition coefficient

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Biogas1 Revision Date: 13-May-2023
No data available

No data available
No data available
No data available
No data available
No data available
No data available
No data available
No data available
No data available
No data available

No data available No data available

No data available

Other information

Remarks • Method

Explosive properties

Oxidizing properties

No information available.
No information available.
No information available.
No information available

### 10. Stability and reactivity

**Reactivity**. None under normal use conditions.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions 

None under normal processing.

Conditions to avoid Incompatible materials.

**Incompatible materials** Strong acids, Strong bases, Strong oxidizing agents.

Hazardous decomposition products Hydrogen chloride, Chlorine, Oxides of Chlorine.

### 11. Toxicological information

### Information on likely routes of exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available. May cause sensitization in

susceptible persons. (based on components). May cause irritation of respiratory tract.

Harmful by inhalation.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available. Repeated or prolonged

skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitization by skin contact. Causes skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. May cause additional

effects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing,

tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause

redness and tearing of the eyes.

**Acute toxicity** 

Numerical measures of toxicity

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

ATEmix (oral) 608.00 mg/kg ATEmix (inhalation-dust/mist) 2.6151 mg/l

Unknown acute toxicity

61.06 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

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

**Skin corrosion/irritation**Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitization** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an

allergic skin reaction.

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for

ingredients. Suspected of causing genetic defects.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. May cause cancer.

### 12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects

Test species	Toxicity value type	Toxicity value	Toxicity value units	Exposure
Ceriodaphnia dubia	LC50	4574.3	mg/L	48 hours
Pimephales promelas	LC50	2980.8	ma/L	96 hours

Persistence and degradability

No information available.

Bioaccumulation

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 information This product contains one or more substances that are listed with the State of California as

a hazardous waste.

### 14. Transport information

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDGNot regulated

### 15. Regulatory information

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

### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

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### The Rotterdam Convention Not applicable

#### International Inventories

Contact supplier for inventory compliance status.

\*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory, or are otherwise exempted from inventory listing requirements.

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product <u>does not</u> contain 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.

#### 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 SOS for appropriate classifications.

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

This product <u>does not</u> 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, <u>does not</u> 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

This product does not contain any substances regulated under applicable state right-to-know regulations.

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

### 16. Other information

NFPA Health hazards 2 Flammability 0 Instability 0 Special hazards - HMIS Health hazards 2 \* Flammability 0 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend\*=Chronic Health Hazard

### Key or legend to abbreviations and acronyms used in the safety data sheet.

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

### Key literature references and sources for data used to compile the SDS

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

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#### Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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### **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** 

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