



Safety Data Sheet

Vitastim Nitrifiers

Revision Date 1/30/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name : Vitastim Nitrifiers

Synonyms : Nitrafix

Product Form : Liquid

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

Identified uses : Promotes nitrification in wastewater treatment plants

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)

Eye damage/irritation (Category 2B)

Skin corrosion/irritation (Category 3)

Acute Toxicity : Oral (Category 5)

2.2 GHS Label elements, including precautionary statements

Pictogram : N/A

Signal Word : Warning

Hazard Statement(s) : May cause mild skin and eye irritation
May be harmful if swallowed

Precautionary Statement(s) : Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink, or smoke while handling.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Hazardous Components

Component	Cas-No.	Concentration %	OSHA PEL	ACGIH TLV
nitrosonomas, nitrospora, nitrosospora, and nitrobacter	N/A	≤5%	N/A	N/A

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

This product is considered non-toxic, if concerned consult a physician.

In case of skin contact

Wash exposed area with soap and water.

In case of eye contact

Immediately rinse eyes with plenty of water.

If Inhaled

Remove to fresh air.

If Ingested

May cause nausea or diarrhea, drink plenty of water.

4.2 Most important symptoms and effects both acute and delayed

Possible irritation upon contact.

4.3 Indication of any immediate medical attention and special treatment needed

None. 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

None

5.3 Special protective equipment for firefighters

No special protective equipment required.

5.4 Further Information

Flash Point (°C) : No data available

Autoignition temperature (°C) : No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

No special precautions required. Wear adequate personal protective equipment.

6.3 Method and materials for clean up

Maintain good housekeeping practices. Can be washed away with water. No special disposal method required, except that it be in accordance with current local, state/provincial and federal regulations.

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

Best when refrigerated in a cool, dry space between 41-60 degrees F. Keep out of direct sunlight and do not store with strong oxidizing agents.

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 : Protective glasses are recommended

Skin : **Hand:** Gloves are recommended
Other: Wear appropriate clothing for work

Respiratory protection : Protective mask is recommended

Thermal protection : None

Environmental exposure : None

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

	Appearance	:	Pale yellow liquid
	Odor	:	Earthy smell
	Solubility	:	Soluble in water
	Boiling point	:	No data available
	pH	:	7.0
	Vapor density	:	No data available
	Melting point	:	No data available
	Vapor pressure	:	No data available
	Specific Gravity	:	1.12 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	:	May be harmful if swallowed
	Skin corrosion/irritation	:	May cause mild skin irritation
	Eye damage/irritation	:	No known effects
	Respiratory/skin sensitization	:	No known effects, possible allergic sensitization
	CMR (Carcinogenity, Mutagenicity, Reproductive toxicity)		No known effects

12. ECOLOGICAL INFORMATION

Test Species	Toxicity Value Type	Toxicity Value	Toxivity Value Units	Exposure
<i>Ceriodaphnia dubia</i>	LC50	148651	mg/L	48 hours
<i>Pimephales promelas</i>	LC50	27728	mg/L	96 hours

12.1	Toxicity	:	No known information is available
12.2	Persistence and degradability	:	No known information is available
12.3	Biaacumulative 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) 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) 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) 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.