



# Safety Data Sheet

## Vitastim Refinery

Revision Date 9/9/2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product Identifiers

Product Name : Vitastim Refinery  
Synonyms : None  
Product Form : Dry Powder

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

Identified uses : Helps to control petroleum hydrocarbons

#### 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)**

Oxidizing Solid (Category 3)

Eye damage/irritation (Category 2A)

Skin corrosion/irritation (Category 3)

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

Pictogram:



Signal Word : Warning

Hazard Statement(s) : Causes serious eye irritation. May cause mild skin irritation.  
May intensify fire; Oxidizer.

Precautionary Statement(s) : Avoid breathing dust/mist/vapor/spray. Wear protective gloves/protective clothing/eye protection/face protection. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink, or smoke while handling. Keep away from heat/sparks/open flames/hot surfaces. Store away from combustible materials.

**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
Sodium Nitrate	7631-99-4	23-27%	15mg/m3(total)* 5mg/m3 (respirable)*	10 mg/m3*
Bacteria Cultures	N/A	6-9%	15mg/m3(total)* 5mg/m3 (respirable)*	10 mg/m3*

\*This TLV applies to nuisance particulates or 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.**

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**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

**General advice**

Wear adequate personal protective equipment. If concerned consult a physician.

**In case of skin contact**

Wash exposed area with soap and water. If irritation persists, seek medical attention.

**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. Do not use an eye ointment. Seek medical attention.

**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**

May cause serious eye irritation.

**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

Contains oxidizer. Contact with combustible materials will not cause spontaneous ignition, however, sodium nitrate will enhance an existing fire.

Thermal decomposition can lead to the escape of toxic/ corrosive gases and vapors.

Thermal decomposition products: Nitrous oxides (NO<sub>x</sub>), sodium nitrite and sodium oxide.

### 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

No special precautions required. Wear adequate personal protective equipment.

None

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

### 6.3 Method and materials for clean up

Maintain good housekeeping practices. Do not absorb in saw-dust or other combustible absorbents. No special disposal method required, except that it be in accordance with current local, state/provincial and federal regulations.

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid generation of dust. Wear personal protection equipment.

### 7.2 Conditions for safe storage

#### Risks

May intensify fire.

#### Place of storage

Store in a cool, dry, well ventilated space between 50-80°F. Store away from combustible substances and reducing agents.

**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

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

**Respiratory protection** : If prolonged exposure expected use respiratory PPE

**Thermal protection** : None

**Environmental exposure** : None

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**9. PHYSICAL & CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

**Appearance** : Tan powder

**Odor** : Earthy smell

**Solubility** : Soluble in water

**Boiling point** : No data available

**pH** : No data available

**Vapor density** : No data available

**Melting point** : No data available

**Vapor pressure** : No data available

**Specific Gravity** : No data available

**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** : Keep away from flammable, combustible, and reducing agents. Keep away from strong acids or bases.
- 10.5 Incompatible materials** : Acids or alkalis may inactivate bacteria. Flammable, combustible and reducing substances under specific conditions.
- 10.6 Hazardous decomposition products** : Nitrous oxides (NOx), sodium nitrite and sodium oxide.
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## 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** : May cause eye irritation
- Respiratory/skin sensitization** : No known effects, possible allergic sensitization
- CMR**(Carcinogenity, Mutagenicity, Reproductive toxicity) No known effects
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## 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.

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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) 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.

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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.*