

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name : F/2 Algae Food B

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

Use of the substance/mixture : Algae Growth Medium

1.3. Details of the supplier of the safety data sheet

Fritz Industries, Inc.
500 N. Sam Houston Rd.
Mesquite, Texas 75149
T (972) 285-5471 (800) 955-1323

1.4. Emergency telephone number

Emergency number : CHEMTREC: (800) 424-9300

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification (GHS-US)**

Not classified

2.2. Label elements**GHS-US labeling**

No labeling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients**3.1. Substance**

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification (GHS-US) |
|----------------|--------------------|------|---|
| sodium nitrate | (CAS No) 7631-99-4 | < 40 | Ox. Sol. 3, H272 Acute Tox. 4 (Oral), H302 |

Full text of H-phrases: see section 16

SECTION 4: First aid measures**4.1. Description of first aid measures**

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Adapt extinguishing media to the environment.
Unsuitable extinguishing media : No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide local exhaust or general room ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container closed when not in use.
Incompatible products : Strong bases. Strong acids. Reducing agents.
Incompatible materials : None known.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| F/2 Algae Food B | |
|----------------------------|----------------|
| ACGIH | Not applicable |
| OSHA | Not applicable |
| sodium nitrate (7631-99-4) | |
| ACGIH | Not applicable |
| OSHA | Not applicable |

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.
Eye protection : Chemical goggles or safety glasses.

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| | |
|------------------------|--|
| Respiratory protection | : Respiratory protection not required in normal conditions. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Mist formation: aerosol mask with filter type P1. |
| Other information | : Do not eat, drink or smoke during use. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Color | : pink |
| Odor | : Mild odour |
| Odor threshold | : No data available |
| pH | : 3.5 - 5 |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : -1.1 K |
| Boiling point | : 104.4 °C |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : 1.32 |
| Solubility | : Soluble in water. Water: Solubility in water of component(s) of the mixture : •: 100 g/100ml •: 0.022 g/100ml •: 60 g/100ml •: 874 g/l |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases. Reducing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Acute toxicity : Not classified

| sodium nitrate (7631-99-4) | |
|-----------------------------------|---|
| LD50 oral rat | 1270 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 3430 mg/kg bodyweight; Rat) |
| LD50 dermal rat | > 5000 mg/kg body weight (Rat; Read-across; OECD 402: Acute Dermal Toxicity) |
| ATE US (oral) | 1270.000 mg/kg body weight |

Skin corrosion/irritation : Not classified
pH: 3.5 - 5

Serious eye damage/irritation : Not classified
pH: 3.5 - 5

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

| sodium nitrate (7631-99-4) | |
|-----------------------------------|---|
| LC50 fish 1 | 12000 mg/l (96 h; Lepomis macrochirus) |
| EC50 Daphnia 1 | 7240 mg/l (24 h; Daphnia magna) |
| EC50 other aquatic organisms 1 | > 1700 mg/l (10 days; Algae) |
| LC50 fish 2 | 4650 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) |
| TLM fish 1 | 6650 ppm (96 h; Gambusia affinis; Turbulent water) |
| TLM fish 2 | 10000 ppm (96 h; Lepomis macrochirus) |

12.2. Persistence and degradability

| F/2 Algae Food B | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

| sodium nitrate (7631-99-4) | |
|-----------------------------------|---|
| Persistence and degradability | Biodegradability: not applicable. No (test)data on mobility of the substance available. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

12.3. Bioaccumulative potential

| F/2 Algae Food B | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| sodium nitrate (7631-99-4) | |
|-----------------------------------|----------------------------------|
| Log Pow | -3.8 |
| Bioaccumulative potential | Bioaccumulation: not applicable. |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer :

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Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Not regulated for transport

Additional information

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

sodium nitrate (7631-99-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

| | |
|-------------------------------------|--|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Fire hazard |
|-------------------------------------|--|

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

15.3. US State regulations

SECTION 16: Other information

Other information : None.

Full text of H-phrases:

| | |
|---------------------|----------------------------------|
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Ox. Sol. 3 | Oxidizing solids Category 3 |
| H272 | May intensify fire; oxidizer |
| H302 | Harmful if swallowed |

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NFPA health hazard

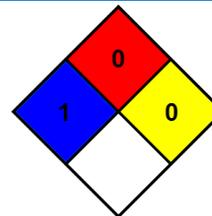
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 0 - Materials that will not burn.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



SDS US Specialty (GHS HazCom 2012)

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