

**1. Identification**

Common Name/ Trade Name: **Fritz Complete**  
 Material Uses: Aquarium water quality

Revision Date: August 20, 2018

Product Number: N/A

Supplier: FRITZ INDUSTRIES, INC.  
 500 SAM HOUSTON ROAD  
 MESQUITE, TX 75149

**In Case of Emergency:**

Week Days: CHEMTREC  
 (Monday – Friday 8-5): (7 days a week, 24 hours a day)  
 (972) 329-8800 (800) 424-9300  
 (800) 955-1323

**2. Hazard(s) Identification**

Classification: Germ Cell Mutagenicity, Category 2

Labeling:

Symbol:



Signal Word: WARNING

Hazard Statement: H341 Suspected of causing genetic defects.

Precautionary Statements: P102 Keep out of reach of children.  
 P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P264 Wash skin thoroughly after handling.  
 P281 Use personal protective equipment as required.  
 P308 + P313 IF exposed or concerned: Get medical advice/attention.  
 P405 Store locked up.  
 P501 Dispose of contents/container to an approved waste disposal facility.

Other Hazard Information:

Physical/Chemical Hazards: No additional hazards.  
 Health Hazards: No additional hazards.  
 Environmental Hazards: No additional hazards.

**3. Composition and Information on Ingredients****Chemical Identity**

Sodium hydroxymethanesulphinate hydrate

**Numbers of Identity**

CAS # 149-44-0

**% by Weight**

10 - 15

**4. First Aid Measures**

<b>Inhalation:</b>	If inhaled, remove from area to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek medical attention.
<b>Skin Contact:</b>	Remove contaminated clothing and shoes. Wash affected areas with soap and water. If irritation develops and persists, seek medical attention.
<b>Eye Contact:</b>	Immediately flush eyes thoroughly with large amounts of water for a minimum of 15 minutes, while holding eyelids open. If irritation or adverse symptoms develop, seek medical attention.
<b>Ingestion:</b>	If victim is conscious and alert, remove material and rinse mouth out. If adverse symptoms develop, seek immediate medical attention.

**5. Fire and Explosion Data**

<b>General Information:</b>	This material is not considered flammable or combustible.
<b>Suitable Extinguishing Media:</b>	Use suitable extinguishing media for surrounding fire.
<b>Unsuitable Extinguishing Media:</b>	None known.
<b>Specific Hazards in Case of Fire:</b>	Irritating and toxic gases may be generated by thermal decomposition, including oxides of carbon, oxides of sulfur and oxides of sodium.
<b>Special Protective Equipment and Precaution for Fire Fighters:</b>	Full protective clothing and approved self-contained breathing apparatus required for fire personnel.

**6. Accidental Release Measures**

<b>Personal Precautions:</b>	Avoid skin and eye contact. Use proper personal protective equipment, see section 8. Spilled material may cause a slipping hazard.
<b>Environmental Precautions:</b>	Prevent from entering sewers and waterways.
<b>Methods and Materials for Containment and Cleaning Up:</b>	Ventilate area. Isolate and contain spill. Use absorbent material to pick up material and place in a suitable container for disposal.

**7. Handling and Storage**

<b>Precautions for Safe Handling:</b>	Avoid skin and eye contact with material. Use proper personal protective equipment, see section 8. Wash exposed areas thoroughly after handling. Do not eat, drink or smoke when using this product.
<b>Conditions for Safe Storage, including Incompatibilities:</b>	Keep container tightly closed. Store in a cool, dry and well ventilated location. Keep away from heat. Store away from strong acids.

**8. Exposure Controls/Personal Protection****Exposure Limits:**

Component Name (CAS-No.)	Reference	Limit Values
Sodium hydroxymethanesulphinate hydrate CAS# 149-44-0	ACGIH (TWA)	Not established
	NIOSH (REL)	Not established
	OSHA (PEL)	Not established

<b>Ventilation:</b>	Ensure good ventilation of the work station.
<b>Respiratory Protection:</b>	Respiratory protection not required in normal conditions. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use a MSHA/NIOSH certified respirator that meets with OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements.
<b>Eye Protection:</b>	Safety glasses with side shields or goggles.
<b>Skin Protection:</b>	Chemical resistant gloves. Clothing should cover arms and legs.

**9. Physical and Chemical Properties**

Flashpoint:	Not determined	Lower Flammability Limit:	Not determined
Auto ignition Temperature:	Not determined	Upper Flammability Limit:	Not determined
Boiling Point:	Not determined	Relative Density :	<b>1.080 – 1.095</b>
Melting Point:	Not determined	% Volatile:	Not determined
Vapor Pressure, mm <sub>Hg</sub> :	Not determined	Evaporation Rate (Water=1):	Not determined
Vapor Density (air=1):	Not determined	Viscosity:	Not determined
%Solubility in Water:	<b>Soluble</b>	Octanol/Water Partition Coefficient:	Not determined
Pour Point:	Not determined	pH (1% solution):	<b>9.0 – 10.0</b>
Odor/Appearance:	<b>Slight sulfur odor/Colorless liquid</b>		

**10. Stability and Reactivity Data**

<b>Chemical Stability:</b>	Stable under recommended conditions of use and storage.
<b>Possibility of Hazardous Reactions:</b>	Contact with acids liberates toxic gas.
<b>Conditions to Avoid:</b>	Extremely high or low temperatures and exposure to moisture.
<b>Materials to Avoid:</b>	Strong acids and strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may release oxides of sulfur, oxides of sodium and oxides of carbon.

**11. Toxicological Information**

<b>Routes of Exposure:</b>	Skin contact, eye contact, inhalation, ingestion.
<b>Acute Toxicity:</b>	No data available.
<b>Skin Corrosion/Irritation:</b>	No data available.
<b>Serious Eye Damage/Irritation:</b>	No data available.
<b>Respiratory/Skin Sensitization:</b>	No data available.
<b>Germ Cell Mutagenicity:</b>	In-vitro test showed mutagenic effects on lab animals.
<b>Carcinogenicity:</b>	Not classified as a carcinogen.
<b>Reproductive Toxicity:</b>	No data available.
<b>STOT, SE:</b>	No data available.
<b>STOT, RE:</b>	No data available.
<b>Other Chronic Toxicity:</b>	None known.

**12. Ecological Information**

<b>Persistence and Degradability:</b>	No data available.
<b>Bio-accumulative Potential:</b>	No data available.
<b>Mobility:</b>	No data available.
<b>Aquatic Toxicity:</b>	

Test	Results	Comments
Golden orfe ( <i>Leuciscus idus</i> )	LC <sub>50</sub> : >10,000 mg/L, 96 hour	Sodium hydroxymethanesulphinate hydrate
Water flea ( <i>Daphnia magna</i> )	EC <sub>50</sub> : >100 mg/L, 48 hour	Sodium hydroxymethanesulphinate hydrate

**13. Disposal Considerations**

<b>Waste Disposal:</b>	Disposal should be made in accordance with federal, state, and local regulations.
------------------------	---

**14. Transport Information**

<b>US DOT Classification:</b>	Not dangerous goods.
UN Number:	Not applicable.
UN Proper Shipping Name:	Not applicable.
Transport Hazard Class:	Not applicable.
Packing Group:	Not applicable.
<b>IATA:</b>	Not dangerous goods.
<b>IMDG:</b>	Not dangerous goods.

**15. Other Regulatory Information**

<b>US Regulations:</b>	
Inventory Status:	Components of this product are on the TSCA inventory or are exempt.
SARA 302 EHS Chemicals:	This product does not contain ingredients listed as an Extremely Hazardous Substance.
SARA (311/312) Hazard Categories:	Chronic Health Hazard
SARA 313:	This product does not contain ingredients on the List of Toxic Chemicals
EPA CERCLA/Superfund Reportable	
Spill Quantity:	This material does not contain any CERCLA regulated chemicals.
California Proposition 65:	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

<b>16. Other Information</b>
------------------------------

**Abbreviations and Acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists  
 CAS: Chemical Abstract Service  
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act  
 EC<sub>50</sub>: Effective Concentration, half maximal  
 EHS: Extremely Hazardous Substances  
 EPA: Environmental Protection Agency  
 GHS: Globally Harmonized System  
 HMIS: Hazardous Materials Identification System  
 LC<sub>50</sub>: Lethal Concentration, half maximal  
 LD<sub>50</sub>: Lethal Dose, half maximal  
 mg/Kg: Milligrams per Kilogram  
 mg/L: Milligrams per Liter  
 mg/m<sup>3</sup>: Milligrams per Cubic Meter  
 NFPA: National Fire Protection Association  
 NIOSH: National Institute for Occupational Safety and Health  
 OECD: Organization for Economic Co-operation and Development  
 OSHA: Occupational Safety and Health Administration  
 PEL: Permissible Exposure Limit  
 PPE: Personal Protective Equipment  
 REL: Recommended Exposure Limit  
 SARA: Superfund Amendments and Reauthorization Act  
 STEL: Short-term exposure limit  
 STOT, RE: Specific Target Organ Toxicity, Repeated Exposure  
 STOT, SE: Specific Target Organ Toxicity, Single Exposure  
 TSCA: Toxic Substances Control Act  
 TWA: Time weighted average

**Additional Information:**

HMIS (U.S.A.): Health 1, Flammability 0, Reactivity 0, Personal Protection B  
 NFPA (U.S.A.): Health 1, Flammability 0, Reactivity 0

**Revisions:**

Added Germ Cell Mutagenicity, Category 2, classification. (08/20/2018)  
 Added GHS08 pictogram. (08/20/2018)  
 Added signal word WARNING. (08/20/2018)  
 Added hazard statement H341. (08/20/2018)  
 Added precautionary statements P201, P202, P264, P281, P308 + P313, P405, & P501.  
 (08/20/2018)  
 Updated sections 11, 14 and 15. (08/20/2018)

**Supersedes:**

April 14, 2016

**Prepared By: Michael Carlo**

**Preparation Date: August 20, 2018**

Disclaimer

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Fritz Industries, Inc. assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.

End of SDS