



## MATERIAL SAFETY DATA SHEET

### Section 1. Company Identification and Product Information

<b>Product Name or Identity:</b>	<b>TSAF Agar (Tryptone Soy Fast Agar)</b>		
<b>Manufacturer's Name:</b>	Acumedia Manufacturers, Inc.	<b>Emergency Phone No.:</b>	517/372-9200
	740 East Shiawassee	<b>Fax No.:</b>	517/372-0108
	Lansing, Michigan 48912	<b>e-mail:</b>	foodsafety@neogen.com
<b>Date Prepared or Revised:</b>	January 2010	<b>Chemtrec: (800) 424-9300</b>	
		<b>Outside US and Canada: (703) 527-3887</b>	

### Section 2. Composition / Information on Hazardous Ingredients

This product is a mixture of the substances listed below with the addition of nonhazardous materials.

<b>Hazardous Components</b> Specific Chemical Identity:	<b>CAS-No.</b>	<b>%</b>	<b>Hazard Symbol</b>
Fast Green FCF	2353-45-9	0.62%	Xn (Harmful)
Sodium Chloride	7647-14-5	12.41%	Xi (Irritant)

### Section 3. Health Hazard Identification

<b>Health Hazards:</b> (Acute and Chronic)	<b>Information pertaining to particular dangers for man and environment.</b> R 45, Harmful. May cause cancer. R 68, Possible risk of irreversible effects. R 36 / 37 / 38, Irritating to eyes, respiratory system, and skin.
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### Section 4. First Aid Measures

<b>Emergency / First Aid Procedures:</b>	<b>General Information:</b> Immediately remove contaminated clothing.
	<b>Ingestion:</b> If swallowed, seek medical attention immediately. Show physician product label or MSDS. Never give anything by mouth to an unconscious person.
	<b>Inhalation:</b> If inhaled, supply fresh air or oxygen and seek medical attention. In case of unconsciousness place patient on side position for transportation.
	<b>Eye Contact:</b> Rinse opened eye for at least 15 minutes under running water, lifting lower and upper eyelids occasionally. Seek medical attention.
	<b>Skin Contact:</b> Remove contaminated clothing. Immediately wash with plenty of soap and water for at least 15 minutes. Wash clothing before reuse.

### Section 5. Fire and Explosion Hazard Data

<b>Flash Point (Method Used):</b> N/A	<b>Flammable Limits:</b> LEL – N/A, UEL – N/A
<b>Extinguishing Media:</b> Use CO <sub>2</sub> , ABC multipurpose dry chemical, or water spray. Fight larger fires with water spray or alcohol resistant foam.	
<b>Protective Equipment:</b> No special measures required.	
<b>Unusual Fire and Explosion Hazards:</b> During heating or in case of fire, poisonous gases may be produced.	

### Section 6. Accidental Release Measures

<b>Personal Precautions:</b> Wear suitable protective clothing. Remove contaminated clothing immediately. Avoid inhalation, contact with eyes and skin. Prevent formation of dust.
<b>Environmental Precautions:</b> Prevent dispersion of material. Wipe up with damp sponge or mop. Do not let material enter drains.
<b>Clean-up Methods:</b> Ensure good ventilation / exhaustion at the workplace. Avoid prolonged or repeated exposure. Absorb material, ventilate area, and wash spill site after material has been cleaned up.



**Section 7. Handling and Storage**

**Handling:** Protect against physical damage. Ensure good ventilation / exhaust. Prevent formation of dust.

**Storage:** Requirements to be met by storerooms and receptacles: 2 - 30°C.

Do not store together with oxidizing agents and acidic materials. Store in cool, dry conditions in well sealed containers.

**Section 8. Exposure Controls / Personal Protection**

**Components with limit values that require monitoring:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**OSHA-PEL:** N/A

**REL:** N/A

**TLV:** N/A

**Additional Information:** Personal Protection listed below are general requirements for laboratory personnel. Follow the usual precautionary measures for handling chemicals / powder. Avoid contact with eyes, skin, and clothing.

**Personal Protective Equipment:**

Keep away from food, beverages, and feed.  
Wash hands before and after entering laboratory.  
Immediately remove all soiled and contaminated clothing.  
Avoid contact with eyes and skin.

**Breathing Equipment:** In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respiratory.

**Hand Protection:** Use chemical resistant gloves.

**Eye Protection:** Wear safety glasses or goggles.

**Body Protection:** Wear lab coat or other protective work clothing.

**Section 9. Physical and Chemical Properties**

**Appearance and Odor:** Homogenous, free-flowing powder, greenish to blue-green-beige.

**Flash Point:** Not applicable

**Melting Point:** Not determined

**Auto Igniting:** Product is not self-igniting

**Solubility in Water:** Not determined

**Danger of explosion:** NA

**pH:** 7.3 ± 0.2 at 25°C

**Section 10. Stability and Reactivity**

<b>Stability:</b>	Unstable		Conditions to Avoid: No decomposition if used according to specifications.
	Stable	X	

**Incompatibility (Materials to Avoid):** Incompatible with strong oxidizing agents.

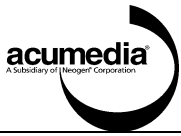
**Hazardous Decomposition or Byproducts:** Sodium oxides, Nitrogen oxides, Sulfur oxides, and Carbon dioxide.

<b>Hazardous Polymerization:</b>	May Occur		No dangerous reactions known.
	Will Not Occur	X	

**Section 11. Toxicological Information**

**LD/LC50 values that are relevant:**  
**LD<sub>50</sub>:** ORL-RAT, > 2,000 mg/kg, Fast Green FCF (2353-45-9)

**Carcinogenicity Classification:**  
**IARC (International Agency for Research on Cancer) – Fast Green FCF (2353-45-9), Group 3**  
**NTP (National Toxicology Program) - Fast Green FCF (2353-45-9), Not listed.**



**Irritant:** Irritant to eyes, skin, and mucous membranes.

**Sensitization:** No data available.

**Additional toxicological information:** Possible carcinogen. Tumorigenic. May be harmful if swallowed, inhaled or absorbed through the skin.

### Section 12. Ecological Information

**Ecotoxicity Tests:**

No data available. The ecological effects have not been thoroughly investigated, but currently none have been identified.

### Section 13. Disposal Considerations

**Waste Disposal Method:** Dispose in accordance with all applicable federal (40 CFR 261.3), state, and local environmental regulations. Must not be disposed of with solid waste.

RCRA Hazardous Waste: No

Contact a licensed professional waste disposal service to dispose of this material if questions arise.

**Container Information:** Do not remove labels from containers until they have been cleaned.

### Section 14. Transport Information

**DOT Regulations:**

Not Regulated

**Land Transport ADR/RID (cross-border):**

Not Regulated

**Maritime Transport IMDG:**

Not Regulated

**Marine Pollutant:** No

**Air Transport ICAO-TI and IATA-DGR:**

Not Regulated

### Section 15. Regulatory Information

**EU Regulations, Hazard Symbol(s):**

**Fast Green Xn (Harmful)**

**Sodium Chloride Xi (Irritant)**

**Risk Phrases:**

R 45, May cause cancer.

R 36 / 37 / 38, Irritating to eyes, respiratory system, and skin.

R 68, Possible risk of irreversible effects.

**Safety Phrases:**

S7, Keep container tightly closed.

S 36,37, Wear suitable protective clothing and gloves.

### Section 16. Other Information

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Acumedia Manufacturers, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.