

## 1. IDENTIFICATION:

**Product Name:** FREE / TOTAL JAW (JUST ADD WATER) INDICATOR  
**Synonyms:** p-Toluenesulfonic Acid  
**CAS Number:** 6192-52-5  
**Catalog Numbers:** 09951 09952 09953 09954 09955 09956 25003 09956T 09992

**Product Use:** Analytical / Laboratory Reagent  
**Manufacturer:** HF Scientific, Inc  
**Address:** 3170 Metro Parkway Fort Myers, FL 33916


**General Information:** 888-203-7248  
**Transportation Emergency Number:** CHEMTREC® 24 hr US 800-424-9300  
 CHEMTREC® 24 hr International 703-527-3887

## 2. HAZARDS IDENTIFICATION

### GHS Classification

Health	Environmental	Physical
Acute Toxicity: Category 4 Skin Irritation: Category 1 Eyes Irritation: Category 1 Specific target organ – single: Category 3	Aquatic Toxicity: None	Flammable Liquid: No

### GHS Label

Pictogram:	Signal Word:
	<b>DANGER</b> <b>WARNING</b>
Hazard Statements	Precautionary Statements
Harmful if swallowed Harmful in contact with skin Harmful if inhaled Causes severe skin burns and eye damage Causes serious eye damage May cause respiratory irritation	IF SWALLOWED Do NOT Induce Vomiting Unless Directed by Medical Personnel. Never Give Anything By Mouth to an Unconscious Person. Get Medical Attention. IF ON SKIN Immediately Flush Skin with Plenty of Water for at Least 15 Minutes While Removing Contaminated Clothing and Shoes. Wash Clothing Before Reuse. Get Medical Attention. IF INHALED Remove to Fresh Air. If Not Breathing, Give Artificial Respiration. If Breathing is Difficult, Give Oxygen. Get Medical Attention. IF IN EYES Immediately Flush Eyes with Plenty of Water for at Least 15 Minutes. Get Medical Attention. STORE in a well-ventilated area. Dispose of container in accordance with local / regional / national / international regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	Cas Number	Weight %
p-Toluenesulfonic Acid	6192-52-5	100%

## 4. FIRST AID MEASURES

**Eye Contact:** Immediately Flush Eyes with Plenty of Water for at Least 15 Minutes. Get Medical Attention.  
**Skin Contact:** Immediately Flush Skin with Plenty of Water for at Least 15 Minutes While Removing Contaminated Clothing and Shoes. Wash Clothing Before Reuse. Get Medical Attention.  
**Inhalation:** Remove to Fresh Air. If Not Breathing, Give Artificial Respiration. If Breathing is Difficult, Give Oxygen. Get Medical Attention.  
**Ingestion:** Do NOT Induce Vomiting Unless Directed by Medical Personnel. Never Give Anything By Mouth to an Unconscious Person. Get Medical Attention.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Dry Chemical, Water Spray, or Foam  
**Fire Fighting Procedures:** As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.  
**Unusual Fire and Exposure Hazards:** None  
**Combustion Products:** Carbon oxides, Sulphur oxides  
**NFPA Classification HEALTH:** 3 **FLAMMABLE:** 1 **REACTIVITY:** 1

## 6. ACCIDENTAL RELEASE MEASURES

Sweep Up Material and Place in a Container for Disposal. Material May Neutralized with Dilute Sodium Carbonate. Wear Personal Protective Equipment such as Safety Glasses, Latex or Nitrile Gloves, Lab Coat, and Dust Mask.

## 7. HANDLING AND STORAGE

**Handling:** Keep Container Dry. Keep Away from Heat and Sources of Ignition. Do Not Ingest. Avoid Breathing Dust. Avoid Contact with Eyes and Skin.  
**Storage:** Keep Container Tightly Closed and Store in a Cool, Well Ventilated Area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits:** Not established  
**Engineering Controls:** Maintain General Industrial Hygiene Practices When Using This Product.  
**Personal Protective Equipment:**  
**Eyes:** Safety glasses  
**Skin:** Lab Coat, and Latex or Nitrile Gloves  
**Respiratory:** Dust Mask

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Flashpoint:** >250°C (446°F)  
**Autoignition Temperature:** N/A  
**Boiling Point:** 140°C (284°F)  
**Melting Point:** 107°C (225°F)  
**Vapor Pressure:** N/A

**Vapor Density:** N/A  
**% Solubility in Water:** Soluble in water

**Pour Point:** N/A  
**Molecular Formula:** C<sub>7</sub>H<sub>8</sub>O<sub>3</sub>S · H<sub>2</sub>O  
**Odor / Appearance:** Solid white powder with slight odor

**Lower Flammability Limit:** N/A  
**Upper Flammability Limit:** N/A  
**Specific Gravity:** 0.72 (Water=1)  
**% Volatile:** N/A  
**Evaporation Rate (Water=1):** N/A  
**Viscosity:** N/A  
**Octanol / Water Partition Coefficient:** N/A  
**pH:** 1-2, Acidic  
**Molecular Weight:** 190.22 g/mol

## 10. STABILITY AND REACTIVITY

**Stability / Incompatibility:** Product is Stable Under Normal Handling and Storage Conditions. May Be Combustible at High Temperature.  
**Hazardous Reactions / Decomposition Products:** None

## 11. TOXICOLOGICAL INFORMATION

**Symptoms of Overexposure:** Irritation and burns of eyes, skin and respiratory tract.  
**Acute Effects:** Corrosive. May Cause Burns of the Eyes, Skin, and Respiratory Tract.  
**Eye Contact:** Irritation and burns of eyes.  
**Skin Contact:** Irritation and burns of skin  
**Inhalation:** Irritation and burns of respiratory tract.  
**Ingestion:** N/A  
**Target Organs Effects:** Eyes, Skin and Respiratory Tract  
**Chronic Effects:** Repeated Inhalation of Dust Can Produce Varying Degree of Respiratory Irritation or Lung Damage  
**Medical Conditions Aggravated by Exposure:** Pre-Existing Eye, Skin, or Respiratory System Conditions  
**Acute Toxicity Values:** N/A

## 12. ECOLOGICAL INFORMATION

No Ecological Data Available

## 13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State and Local Regulations.

## 14. TRANSPORT INFORMATION

**US DOT (United States Department of Transportation):**  
 PROPER SHIPPING NAME: Aryl Sulfonic Acids, Solid  
 HAZARD CLASS: 8 UN NUMBER: UN2585 PACKING GROUP: III

**IATA (International Air Transport Association):**  
 PROPER SHIPPING NAME: Arylsulphonic Acids, Solid  
 HAZARD CLASS: 8 UN NUMBER: UN2585 PACKING GROUP: III

**IMO (International Maritime Organization):**  
 PROPER SHIPPING NAME: Arylsulphonic Acids, Solid  
 HAZARD CLASS: 8 UN NUMBER: UN2585 PACKING GROUP: III

**15. REGULATORY INFORMATION**

**DSCL (EEC):** R36/37/38-Irritating to Eyes, Respiratory System, and Skin.  
S26-In Case of Contact with Eyes, Rinse Immediately with Plenty of Water and Seek Medical Advice.  
S28-After Contact with Skin, Wash Immediately with Plenty of Water.  
S36/37/39-Wear Suitable Protective Clothing, Gloves, and Eye/Face Protection.

**US / CANADA INFORMATION:**

OSHA: Hazardous By Definition of Hazard Communication Standard (29 CFR 1910.1200)  
WHMIS (Canada): CLASS E: Corrosive Solid

**16. OTHER INFORMATION**

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.

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