

Safety Data Sheet

PRODUCT IDENTIFICATION: Total JAW (Just Add Water) Chlorine Buffer

Catalog Number-HF scientific: 09952 09954 09956 25012 09956T 09992

PRODUCT USE: Analytical / Laboratory Reagent

NFPA RATINGS: HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

HAZARDS IDENTIFICATION

TARGET ORGANS: Eyes, Skin, Respiratory Tract

ACUTE TOXICITY: May Cause Eye, Skin, or Respiratory Tract Irritation

CHRONIC TOXICITY: None Listed

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-Existing Eye, Skin, or

<40%

Respiratory Disorders

**COMPOSITION / INFORMATION ON INGREDIENTS** 

Percent

Trisodium Citrate Salt Component

CAS No. Confidential

>60%

Potassium Iodide Component

7681-11-0 CAS No.

Component Ethylenediaminetetraacetic Acid (EDTA)

CAS No. 6381-92-6

FIRST AID MEASURES

EYE CONTACT: Flush Eyes with Plenty of Water for at Least 15 Minutes. Get Medical

SKIN CONTACT: Flush Skin with Water for at Least 15 Minutes While Removing

Contaminated Clothing and Shoes INHALATION: Remove from Exposure and Move to Fresh Air Immediately. If Not

Breathing, Give Artificial Respiration. If Breathing is Difficult, Give Oxygen. Get Medical Aid if Cough or Other Symptoms Appear.

INGESTION: Never Give Anything by Mouth to an Unconscious Person. Get Medical Aid. Do NOT Induce Vomiting. If Conscious and Alert, Rinse Mouth and Give Milk or

FIRE FIGHTING MEASURES

FLASH POINT: NA AUTOIGNITION POINT: NA

FLAMMABILITY LIMITS: UPPER: NA LOWER: NA

EXTINGUISHING MEDIA: Water Spray, Dry Chemical, Carbon Dioxide, or Foam

**ACCIDENTAL RELEASE MEASURES** 

Clean Up Spills Immediately Wearing Appropriate Personal Protective Equipment. Sweep Up and Place into a Container for Disposal. Avoid Generating Dusty Conditions. Provide Ventilation.

HANDLING AND STORAGE

HANDLING: Wash Thoroughly After Handling. Remove Contaminated Clothing and Wash Before Reuse. Use in Adequate Ventilation. Minimize Dust Generation and Accumulation. Avoid Contact with Eyes, Skin, and Clothing. Keep Container Tightly Closed. Avoid Ingestion and Inhalation.

**EXPOSURE CONTROLS / PERSONAL PROTECTION** 

**EXPOSURE CONTROLS** 

Use Adequate Ventilation to Keep Airborne Concentrations Low

ACGIH: Trisodium Citrate Salt- None Listed

**EDTA-None Listed** 

OSHA PELs: Trisodium Citrate Salt- None Listed

**EDTA-None Listed** 

NIOSH: Trisodium Citrate Salt- None Listed

**EDTA-None Listed** 

PERSONAL PROTECTIVE EQUIPMENT: Safety Glasses, Latex or Nitrile Gloves, Lab

Coat, Dust Mask

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid APPEARANCE: WHITE ODOR: Odorless

pH: 6-7

#### 10. STABILITY AND REACTIVITY

Stable at Room Temperature in Closed Containers Under Normal Storage and Handling Conditions.

#### 11. TOXICOLOGICAL INFORMATION

Route of Exposure: Eyes, Skin, Inhalation, Ingestion

Teratogen Status: None Listed

Mutagen Status: Potassium Iodide Listed as Mutagenic for Mammalian Somatic Cells Reproductive Toxicity: Potassium Iodide Classified Reproductive System/toxin/female

Carcinogen Status: None Listed

# 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): Not Regulated IATA (International Air Transport Association): Not Regulated IMO (International Maritime Organization): Not Regulated

#### 15. REGULATORY INFORMATION

EUROPEAN INFORMATION:

RISK PHRASES: R 36/38 Irritating to Eyes and Skin SAFETY PHRASES: S 26 In Case of Contact with Eyes, Rinse Immediately with Plenty of Water and Seek Medical Advice. S37/39 Wear Suitable Gloves and Eye/Face Protection

US / CANADA INFORMATION:

SARA/Title III: None Listed Cal. Proposition 65: None Listed US TSCA Inventory: Listed

# 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

25015 Rev. 4 Nov 28, 2012



# **Safety Data Sheet**

# 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, FI 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:	Aquatic Toxicity: None	Flammable Liquid: No
Category 3		

#### **GHS Label**

Pictogram:	Signal Word: DANGER WARNING
Hazard 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	Precautionary Statements 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 is 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.

# B. 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: C7H8O3S · H2O

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 Conatct: 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 Transporatation): 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

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25011 Rev. 5 July 16<sup>th</sup>, 2013



# **Safety Data Sheet**

# IDENTIFICATION:

Product Name: DPD POWDER FOR FREE AND TOTAL ANALYZERS

Synonyms: N,N-Diethyl-p-phenylenediamine Sulfate Salt

4-Amino-N,N-diethylanilinesulfate salt

CAS Number: 6283-63-2

Catalog Numbers: 14275 09935 09936 09937 09938 00947 00948 09951 09951H 09952 09952H 09953 09953H 09954

09955H 09956 09954H 09955 09956H 09991 09942

09992 09956T 09991T

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

# HAZARDS IDENTIFICATION

#### **GHS Classification**

Health	Environmental	Physical
Acute Toxicity: Category 5 Acute Toxicity (oral): Category 4 Skin Irritation: Category 3 Skin Sensitizer: Category 1B Eye Irritation: Category 2B	Aquatic Toxicity: None	Flammable Liquid: No
Specific Target Organ Toxicity: Category 3		

#### **GHS Label**

Pictogram:	Signal Word: WARNING
Hazard Statements Harmful if swallowed May be harmful in contact with skin May be harmful if inhaled Causes mild skin irritation May cause allergic skin reaction Causes eye irritation May cause respiratory irritation	Precautionary Statements IF SWALLOWED Rinse Mouth with Water. Consult a Physician. Never Give Anything By Mouth to an Unconscious Person. IF ON SKIN wash Thoroughly With Soap and Water. Consult a Physician. IF INHALED Remove to Fresh Air. If Not Breathing, Give Artificial Respiration. Consult a Physician. IF IN EYES Rinse Thoroughly With Plenty of Water for at Least 15 Minutes. Consult a Physician. Store in a well-ventilated place. Dispose of contents/container in a manner consistent with Federal, State and Local Regulations.

# **COMPOSITION / INFORMATION ON INGREDIENTS**

Component	Cas Number	Weight %
N,N-Diethyl-p-phenylenediamine Sulfate Salt	6283-63-2	100%

#### FIRST AID MEASURES

Eye Contact: : Rinse Thoroughly With Plenty of Water for at Least 15 Minutes. Consult a Physician.

Skin Contact: Wash Thoroughly With Soap and Water. Consult a Physician. Inhalation: Remove to Fresh Air. If Not Breathing, Give Artificial Respiration. Consult a

Ingestion: Never Give Anything By Mouth to an Unconscious Person. Rinse Mouth with Water. Consult a Physician.

# FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water, Alcohol-Resistant Foam, Dry Chemical or Carbon Dioxide

Fire Fighting Procedures: As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

Unusual Fire and Exposure Hazards: During a fire, this product decomposes to form

Combustion Products: Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides NFPA Classification HEALTH: 2 FLAMMABLE: 0 REACTIVITY: 0

# **ACCIDENTAL RELEASE MEASURES**

Use Personal Protective Equipment Such as Safety Glasses, Dust Mask, Latex or Nitrile Gloves, and Lab Coat. Avoid Dust Formation. Avoid Breathing Dust. Ensure Adequate Ventilation. Pick Up and Arrange Disposal Without Creating Dust. Keep in Suitable, Closed Containers for Disposal.

#### HANDLING AND STORAGE

Handling: Avoid Formation of Dust and Aerosols. Provide Appropriate Exhaust Ventilation at Places Where Dust is Formed. Normal Measures for Preventive Fire Protection

Storage: Keep Container Tightly Closed in a Dry, Well Ventilated Place. Light and

Moisture Sensitive.

#### **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

#### PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint: N/A

Autoignition Temperature: N/A

Boiling Point: N/A

Melting Point: 184-187°C (363-369 °F)

Vapor Pressure: N/A

Vapor Density: N/A % Solubility in Water: N/A

Pour Point: N/A

Molecular Formula:  $C_{10}H_{16}N_2 \cdot H_2SO_4$ Odor / Appearance: Solid white powder

Lower Flammability Limit: N/A Upper Flammability Limit: N/A

Specific Gravity: N/A

% Volatile: N/A

Evaporation Rate (Water=1): N/A

Viscosity: N/A

Octanol / Water Partition Coefficient: N/A

Molecular Weight: 262.33 g/mol

# 10. STABILITY AND REACTIVITY

Stability / Incompatibility: Stable Under Recommended Storage Conditions. Avoid Strong Oxidizing Agents.

Hazardous Reactions / Decomposition Products: Hazardous Decomposition Products Formed Under Fire Conditions Such as Carbon Oxides, Nitrogen Oxides, and Sulfur Oxides.

# 11. TOXICOLOGICAL INFORMATION

Symptoms of Overexposure: Irritation and redness of eye and skin. Irritation of

Acute Effects: Irritation and redness of eyes, skin and gastrointestinal tract.

Eye Contact: Irritation and redness of eyes. Skin Conatct: Irritation and redness of skin Inhalation: Irritation of respiratory tract.

Ingestion: Toxic if swallowed

Target Organs Effects: Eyes, Skin and Respiratory Tract

Chronic Effects: May be Toxic if Ingested. May Cause Allergic Reaction.

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.

#### TRANSPORT INFORMATION

US DOT (United States Department of Transportation): Not regulated IATA (International Air Transport Association): Not regulated IMO (International Maritime Organization): Not regulated

# 15. REGULATORY INFORMATION

CERCLA: None reported SARA/Title III: Acute Health Hazard. TSCA Inventory: Listed Cal. Proposition 65: None WHMIS: N/A DSL: N/A NDSL: N/A

# 16. OTHER INFORMATION

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0344 Rev. 11 July 5<sup>th</sup>, 2013