

Classified According to OSHA Hazard Communication Standard (HCS)

# **SECTION 1: Identification**

#### 1.1. Product Identifier

Trade Name or Designation: DPD Reagent

Product Number: RA0099Y4

Other Identifying Product Numbers: 330014, 330006, 330007

#### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

## 1.3. Details of the Supplier of the Safety Data Sheet

Company: Xylem Analytics

Address: 1700/1725 Brannum Lane

Yellow Springs, OH 45387 USA

Telephone:

### 1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1+ 703-527-3887

## **SECTION 2: Hazard(s) Identification**

### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

Hazard Class	Category	Hazard Statements:	Precautionary Statements:
Acute Toxicity - Oral	Category 4	H302	P264, P270, P301+P312, P330, P501
Acute Toxicity - Dermal	Category 4	H312	P280, P302+P352, P312, P321, P362, P501

#### 2.2. GHS Label Elements

Pictograms:



Product Number: RA0099Y4 Page 1 of 10



Signal Word: Warning

#### **Hazard Statements:**

Hazard Number	Hazard Statement
H302	Harmful if swallowed.
H312	Harmful in contact with skin.

### **Precautionary Statements:**

Precautionary Number	Precautionary Statement
P264	Wash arms, hands and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves and eye protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P312	Call a POISON CENTER or physician if you feel unwell.
P321	Specific treatment (Wash areas of contact with water).
P330	Rinse mouth.
P362	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents in accordance with local, state, federal and international regulations.

# 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

# **SECTION 3: Composition / Information on Ingredients**

### 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight CAS Number	Weight%
N,N-Diethyl-1,4-phenylenediamine Sulfate	$C_{10}H_{18}N_2O_4S$	262.32 g/mol 6283-63-2	100.00

# **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

**Eye Contact:** May cause irritation, redness, pain, and tearing.

**Inhalation:** Not expected to require first aid. If necessary, remove to fresh air.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. May cause irritation, redness and pain. Absorption through skin may occur wi

toxic effects similar to inhalation.

Product Number: RA0099Y4 Page 2 of 10



**Ingestion:** IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Do not induce vomiting. Give large quantity of water. Call a physician immediately.

## 4.2. Most Important Symptoms and Effects, Acute and Delayed

Harmful if swallowed. Harmful in contact with skin. CAUTION! Harmful if inhaled, swallowed, or absorbed through the skin. Causes irritation to eyes, s and respiratory system. Wash areas of contact with water. If swallowed, do not induce vomiting. Call a physician. For eyes, get medical attention. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause irritation, redness and pain. Absorption through skin may occur with toxic effects similar to inhalation. CHRONIC EFFECTS / CARCINOGENICITY: Chronic ingestion of small amounts may cause hypocalcemi tetany (calcium deficiency in blood), urinary calculi (hardening of mineral salts around organic material found in the urinary tract).

## 4.3. Medical Attention or Special Treatment Needed

Specific treatment (Wash areas of contact with water).

# **SECTION 5: Fire-Fighting Measures**

## 5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

## 5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

# 5.3. Special Protective Equipment for Firefighters

Use protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire.

### **SECTION 6: Accidental Release Measures**

# 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

## 6.2. Cleanup and Containment Methods and Materials

Pick up in a manner that does not generate dust. Powder may be moistened with water to aid in the clean-up.

# **SECTION 7: Handling and Storage**

# 7.1. Precautions for Safe Handling and Storage Conditions

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

Product Number: RA0099Y4 Page 3 of 10



# **SECTION 8: Exposure Controls / Personal Protection**

#### **8.1 Control Parameters**

Chemical Name	Limit Type	Country Exposure Limit	Information Source
Data not available.			

## 8.2. Exposure Controls

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: A system of local or general exhaust is recommended. If necessary, wear a dust mask respirator to minimize

exposure to dust particles.

**Skin Protection:** Wear protective gloves and eye protection. Chemical resistant gloves. **Eye Protection:** Wear protective gloves and eye protection. Safety glasses or goggles.

# 8.3. Personal Protective Equipment

Wear protective gloves and eye protection. A system of local or general exhaust is recommended. If necessary, wear a dust mask respirator to minim exposure to dust particles. Chemical resistant gloves. Safety glasses or goggles.

Product Number: RA0099Y4 Page 4 of 10



# **SECTION 9: Physical and Chemical Properties**

## 9.1. Basic Physical and Chemical Properties

Appearance: White powder

Physical State: Solid

Odor: Data not available.

Odor Threshold: Data not available.

pH: Data not available.

Melting/Freezing Point: Data not available.

Initial Boiling Point/Range: Data not available.

Flash Point: Data not available.

**Evaporation Rate:** Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.00

Solubility: Soluble

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

**Decomposition Temperature:** Data not available.

Viscosity: Data not available.

**Explosive Properties:** Data not available.

Oxidizing Properties: Data not available.

# **SECTION 10: Stability and Reactivity**

### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

### 10.2. Possibility of Hazardous Reactions

Data not available.

### 10.3. Conditions to Avoid and Incompatible Materials

Strong oxidizing agents

## 10.4. Hazardous Decomposition Products

Will not occur.

Product Number: RA0099Y4 Page 5 of 10



# **SECTION 11: Toxicological Information**

## 11.1. Information on Toxicological Effects

#### **Acute Toxicity - Oral Exposure:**

Harmful if swallowed. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. Dispose of contents in accordance with local, state, federand international regulations.

#### **Acute Toxicity - Dermal Exposure:**

Harmful in contact with skin. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Specific treatment (Wash areas of contact with water). Take off contaminated clothing and wash it beforeuse. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Acute Toxicity - Inhalation Exposure:**

Not applicable.

#### **Acute Toxicity - Other Information:**

LD50, Oral, Rat: No information available on normal routes of exposure

#### Skin Corrosion and Irritation:

Not applicable.

#### **Serious Eye Damage and Irritation:**

Not applicable.

#### **Respiratory Sensitization:**

Not applicable.

#### Skin Sensitization:

Not applicable.

#### **Germ Cell Mutagenicity:**

Not applicable.

#### Carcinogenicity:

Not applicable.

### **Reproductive Toxicity:**

Not applicable.

#### **Specific Target Organ Toxicity from Single Exposure:**

Not applicable.

#### **Specific Target Organ Toxicity from Repeated Exposure:**

Not applicable.

### **Aspiration Hazard:**

Not applicable.

### **Additional Toxicology Information:**

Data not available.

Product Number: RA0099Y4 Page 6 of 10



# **SECTION 12: Ecological Information**

## 12.1. Ecotoxicity

Not applicable.

## 12.2. Persistence and Degradability

Data not available.

#### 12.3. Bioaccumulative Potential

Data not available.

## 12.4. Mobility in Soil

Data not available.

## 12.5. Other Adverse Ecological Effects

Data not available.

# **SECTION 13: Disposal Considerations**

### 13.1. Waste Treatment Methods

Data not available.

# **SECTION 14: Transportation Information**

# 14.1. Transportation by Land-Department of Transportation (DOT, United States of America)

Not regulated according to DOT Regulations.

Product Number: RA0099Y4 Page **7** of **10** 



14.2. Transportation by Air - International Air Transport Association (IATA)

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

# **SECTION 15: Regulatory Information**

- 15.1. Occupational Safety and Health Administration (OSHA) Hazards
  Not listed.
- 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

  Not listed.
- 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

  Not listed
- 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

  Not listed.
- 15.5. Massachusetts Right-to-Know Substance List Not listed.

Product Number: RA0099Y4 Page 8 of 10



15.6. Pennsylvania Right-to-Know Hazardous Substances

Not listed.

15.7. New Jersey Worker and Community Right-to-Know Components

Not listed

15.8. California Proposition 65

Not listed.

15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Not listed

15.10. United States of America Toxic Substances Control Act (TSCA) List

Not listed.

15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List

of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

N,N-Diethyl-1,4-phenylenediamine Sulfate (CAS # 6283-63-2): 228-500-6

## **SECTION 16: Other Information**

# 16.1. Full Text of Hazard Statements and Precautionary Statements

Harmful if swallowed. Harmful in contact with skin.

Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and eye protection

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Specific treatment (Wasl areas of contact with water). Rinse mouth. Take off contaminated clothing and wash it before reuse.

Dispose of contents in accordance with local, state, federal and international regulations.

#### 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

Product Number: RA0099Y4 Page 9 of 10



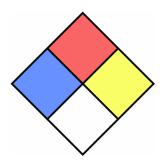
# 16.3. National Fire Protection Association (NFPA) Rating

Health:

Flammability:

Reactivity:

**Special Hazard:** 



#### 16.4. Document Revision

Last Revision Date: 2020-08-15

# **DISCLAIMER**

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and Xylem Analytics assumes no legal responsibility or liability whatsoever resulting from its use.

Product Number: RA0099Y4 Page 10 of 10



Classified According to OSHA Hazard Communication Standard (HCS)

# **SECTION 1: Identification**

#### 1.1. Product Identifier

Trade Name or Designation: Free Chlorine Indicator

Product Number: RA0099Y3

Other Identifying Product Numbers: 330013, 330007

### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

# 1.3. Details of the Supplier of the Safety Data Sheet

Company: Xylem Analytics

Address: 1700/1725 Brannum Lane

Yellow Springs, OH 45387 USA

Telephone:

### 1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1+ 703-527-3887

## **SECTION 2: Hazard(s) Identification**

### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

Hazard Class	Category	Hazard Statements:	Precautionary Statements:
Acute Toxicity - Oral	Category 4	H302	P264, P270, P301+P312, P330, P501
Skin Corrosion / Irritation	Category 1A	H314	P260, P264, P280, P301+P330+P331,
			P303+P361+P353, P363, P304+P340, P310,
			P321, P305+P351+P338, P405, P501
Eye Damage / Irritation	Category 1	H318	P280, P305+P351+P338, P310
Specific Target Organs/Systemic Toxicity Following Single	Category 2	H371	P260, P264, P270, P308+P311, P405, P501
Exposure			

Product Number: RA0099Y3 Page 1 of 11



# 2.2. GHS Label Elements

## Pictograms:



Signal Word: Danger

#### **Hazard Statements:**

Hazard Number	Hazard Statement
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H371	May cause damage to organs.

## **Precautionary Statements:**

Precautionary Number	Precautionary Statement
P260	Do not breathe dust/fumes.
P264	Wash arms, hands and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves and eye protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy t
P308+P311	IF exposed or concerned: Call a POISON CENTER or physician.
P310	Immediately call a POISON CENTER or physician.
P321	Specific treatment (Wash areas of contact with water).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents in accordance with local, state, federal and international regulations.

# 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

Product Number: RA0099Y3 Page 2 of 11



# **SECTION 3: Composition / Information on Ingredients**

## 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight CAS Number	Weight%
p-Toluenesulfonic Acid Monohydrate	$C_7H_{10}O_4S$	190.22 g/mol 6192-52-5	100.00

# **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsin-

**Inhalation:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

## 4.2. Most Important Symptoms and Effects, Acute and Delayed

Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. May cause damage to organs.

#### 4.3. Medical Attention or Special Treatment Needed

Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water).

# **SECTION 5: Fire-Fighting Measures**

#### 5.1. Extinguishing Media

Not considered to be a fire or explosion hazard.

## 5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

#### 5.3. Special Protective Equipment for Firefighters

Wear protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire.

### **SECTION 6: Accidental Release Measures**

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

## 6.2. Cleanup and Containment Methods and Materials

Absorb with suitable material and dispose of in accordance with local regulations.

Product Number: RA0099Y3 Page 3 of 11



# **SECTION 7: Handling and Storage**

## 7.1. Precautions for Safe Handling and Storage Conditions

Store locked up.

# **SECTION 8: Exposure Controls / Personal Protection**

## **8.1 Control Parameters**

Chemical Name	Limit Type	Country Exposure Limit	Information Source
Data not available.			

# 8.2. Exposure Controls

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate. **Respiratory Protection:** No specific controls are needed. Normal room ventilation is adequate

**Skin Protection:** Wear protective gloves and eye protection. **Eye Protection:** Wear protective gloves and eye protection.

# 8.3. Personal Protective Equipment

Wear protective gloves and eye protection.

Product Number: RA0099Y3 Page 4 of 11



# **SECTION 9: Physical and Chemical Properties**

## 9.1. Basic Physical and Chemical Properties

Appearance: White Solid Physical State: Solid

Odor: Data not available.

Odor Threshold: Data not available.

pH: Data not available.

Melting/Freezing Point: Data not available.

Initial Boiling Point/Range: Data not available.

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

**Vapor Density:** Data not available.

Relative Density: 1.00

Solubility: Data not available.

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

**Decomposition Temperature:** Data not available.

Viscosity: Data not available.

Explosive Properties: Data not available.

Oxidizing Properties: Data not available.

# **SECTION 10: Stability and Reactivity**

### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

### 10.2. Possibility of Hazardous Reactions

Data not available.

## 10.3. Conditions to Avoid and Incompatible Materials

Protect from physical damage.

## 10.4. Hazardous Decomposition Products

May emit irritating fumes when heated to decomposition.

Product Number: RA0099Y3 Page 5 of 11



# **SECTION 11: Toxicological Information**

## 11.1. Information on Toxicological Effects

#### **Acute Toxicity - Oral Exposure:**

Harmful if swallowed. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. Dispose of contents in accordance with local, state, federand international regulations.

#### **Acute Toxicity - Dermal Exposure:**

Not applicable.

#### **Acute Toxicity - Inhalation Exposure:**

Not applicable.

#### **Acute Toxicity - Other Information:**

Data not available.

#### Skin Corrosion and Irritation:

Causes severe skin burns and eye damage. Do not breathe dust/fumes. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminate clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). IF IN EYES: Rinse cautiou with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Serious Eye Damage and Irritation:

Causes serious eye damage. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

#### **Respiratory Sensitization:**

Not applicable.

#### **Skin Sensitization:**

Not applicable.

#### **Germ Cell Mutagenicity:**

Not applicable.

#### Carcinogenicity:

Not applicable.

#### **Reproductive Toxicity:**

Not applicable.

#### **Specific Target Organ Toxicity from Single Exposure:**

May cause damage to organs. Do not breathe dust/fumes. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed or concerned: Call a POISON CENTER or physician. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Product Number: RA0099Y3 Page 6 of 11



## **Specific Target Organ Toxicity from Repeated Exposure:**

Not applicable.

### **Aspiration Hazard:**

Not applicable.

### **Additional Toxicology Information:**

Data not available.

# **SECTION 12: Ecological Information**

## 12.1. Ecotoxicity

Not applicable.

## 12.2. Persistence and Degradability

Data not available.

### 12.3. Bioaccumulative Potential

Data not available.

### 12.4. Mobility in Soil

Data not available.

## 12.5. Other Adverse Ecological Effects

Data not available.

# **SECTION 13: Disposal Considerations**

### 13.1. Waste Treatment Methods

Data not available.

Product Number: RA0099Y3 Page **7** of **11** 



# **SECTION 14: Transportation Information**

14.1. Transportation by Land-Department of Transportation (DOT, United States of America)

Sizes: 1E

UN Number: UN2585

Proper Shipping Name: Aryl sulfonic acids, solid

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



14.2. Transportation by Air - International Air Transport Association (IATA)

Sizes: 1E

UN Number: UN2585

Proper Shipping Name: Aryl sulfonic acids, solid

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



14.3 Transportation of Dangerous Goods (TDG, Canada)

Sizes: 1E

UN Number: UN2585

Proper Shipping Name: ARYL SULFONIC ACIDS, SOLID

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



Product Number: RA0099Y3 Page 8 of 11



# **SECTION 15: Regulatory Information**

15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.

- 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances Not listed.
- 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals Not listed.
- 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

  Not listed.
- 15.5. Massachusetts Right-to-Know Substance List

p-Toluenesulfonic Acid Monohydrate (CAS # 6192-52-5): Present

15.6. Pennsylvania Right-to-Know Hazardous Substances

p-Toluenesulfonic Acid Monohydrate (CAS # 6192-52-5): Present

15.7. New Jersey Worker and Community Right-to-Know Components

p-Toluenesulfonic Acid Monohydrate (CAS # 6192-52-5): corrosive

p-Toluenesulfonic Acid Monohydrate (CAS # 6192-52-5): sn 1870

15.8. California Proposition 65

Not listed.

15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

p-Toluenesulfonic Acid Monohydrate (CAS # 6192-52-5): Present (DSL)

15.10. United States of America Toxic Substances Control Act (TSCA) List

p-Toluenesulfonic Acid Monohydrate (CAS # 6192-52-5): Present

15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

p-Toluenesulfonic Acid Monohydrate (CAS # 6192-52-5): 203-180-0

Product Number: RA0099Y3 Page 9 of 11



# **SECTION 16: Other Information**

## 16.1. Full Text of Hazard Statements and Precautionary Statements

Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. May cause damage to organs.

Do not breathe dust/fumes. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and eye protection.

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Call a POISON CENTER or physician. Specifi treatment (Wash areas of contact with water). Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents in accordance with local, state, federal and international regulations.

## 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

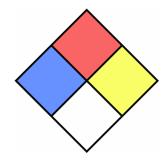
### 16.3. National Fire Protection Association (NFPA) Rating

Health:

Flammability:

Reactivity:

Special Hazard:



#### 16.4. Document Revision

Last Revision Date: 2020-08-15

Product Number: RA0099Y3 Page 10 of 11

# **DISCLAIMER**

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and Xylem Analytics assumes no legal responsibility or liability whatsoever resulting from its use.

Product Number: RA0099Y3 Page 11 of 11



Classified According to OSHA Hazard Communication Standard (HCS)

# **SECTION 1: Identification**

#### 1.1. Product Identifier

Trade Name or Designation: Free Chlorine Buffer

Product Number: RA0099Y2

Other Identifying Product Numbers: 330012, 330007

#### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

### 1.3. Details of the Supplier of the Safety Data Sheet

Company: Xylem Analytics

Address: 1700/1725 Brannum Lane

Yellow Springs, OH 45387 USA

Telephone:

### 1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1+ 703-527-3887

## **SECTION 2: Hazard(s) Identification**

#### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

This product is not categorized as hazardous in any GHS hazard class.

#### 2.2. GHS Label Elements

Pictograms: None Required.

Signal Word: None Required.

Product Number: RA0099Y2 Page 1 of 9



Hazard Statements: None Required.

Precautionary Statements: None Required.

### 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

# **SECTION 3: Composition / Information on Ingredients**

## 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	Weight%
Sodium Citrate Dihydrate	$Na_3C_6H_5O_7\cdot 2H_2O$	294.10 g/mol	6132-04-3	94.00
Ethylenediaminetetraacetic Acid (EDTA), Dipotassium Salt,	$C_{10}H_{14}N_2O_8K_2\cdot 2H_2O$	404.45 g/mol	25102-12-9	6.00
Dihydrate				

## **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

**Eye Contact:** May cause irritation, redness, pain, and tearing.

**Inhalation:** Not expected to require first aid. If necessary, remove to fresh air.

Skin Contact: May cause slight irritation.

**Ingestion:** Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

### 4.2. Most Important Symptoms and Effects, Acute and Delayed

May cause irritation to the eyes, skin and respiratory tract. Wash areas of contact with water. Call a physician if irritation develops. EYE CONTACT: M cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause slight irritation.

#### 4.3. Medical Attention or Special Treatment Needed

Not expected to require special treatment.

# **SECTION 5: Fire-Fighting Measures**

### 5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

## 5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

Product Number: RA0099Y2 Page 2 of 9



# 5.3. Special Protective Equipment for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

## **SECTION 6: Accidental Release Measures**

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate PPE for the size and nature of the spill. As a general rule, wear safety glasses and gloves.

## 6.2. Cleanup and Containment Methods and Materials

Small amounts may be flushed to the drain with excess water.

# **SECTION 7: Handling and Storage**

## 7.1. Precautions for Safe Handling and Storage Conditions

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from physical damage. Keep in tightly closed containers in a cool, dry area.

# **SECTION 8: Exposure Controls / Personal Protection**

#### **8.1 Control Parameters**

Chemical Name	Limit Type	Country Exposure Limit	Information Source
Data not available.			

## 8.2. Exposure Controls

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves. **Eye Protection:** Safety glasses or goggles.

### 8.3. Personal Protective Equipment

Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

Product Number: RA0099Y2 Page 3 of 9



# **SECTION 9: Physical and Chemical Properties**

## 9.1. Basic Physical and Chemical Properties

Appearance: White to Tan Solids

Physical State: Solid

Odor: Data not available.

Odor Threshold: Data not available.

**pH:** Data not available.

Melting/Freezing Point: Data not available.

Initial Boiling Point/Range: Data not available.

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.
Vapor Density: Data not available.

Relative Density: 1.9

Solubility: Soluble

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

**Decomposition Temperature:** Data not available.

Viscosity: Data not available.

Explosive Properties: Data not available.

Oxidizing Properties: Data not available.

# **SECTION 10: Stability and Reactivity**

### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

### 10.2. Possibility of Hazardous Reactions

Data not available.

## 10.3. Conditions to Avoid and Incompatible Materials

strong oxidizers

## 10.4. Hazardous Decomposition Products

Will not occur.

Product Number: RA0099Y2 Page 4 of 9



# **SECTION 11: Toxicological Information**

## 11.1. Information on Toxicological Effects

**Acute Toxicity - Oral Exposure:** 

Not applicable.

**Acute Toxicity - Dermal Exposure:** 

Not applicable.

**Acute Toxicity - Inhalation Exposure:** 

Not applicable.

**Acute Toxicity - Other Information:** 

No LD50 information found.

**Skin Corrosion and Irritation:** 

Not applicable.

**Serious Eye Damage and Irritation:** 

Not applicable.

**Respiratory Sensitization:** 

Not applicable.

Skin Sensitization:

Not applicable.

**Germ Cell Mutagenicity:** 

Not applicable.

Carcinogenicity:

Not applicable.

**Reproductive Toxicity:** 

Not applicable.

**Specific Target Organ Toxicity from Single Exposure:** 

Not applicable.

**Specific Target Organ Toxicity from Repeated Exposure:** 

Not applicable.

**Aspiration Hazard:** 

Not applicable.

**Additional Toxicology Information:** 

Data not available.

# **SECTION 12: Ecological Information**

# 12.1. Ecotoxicity

Not applicable.

Product Number: RA0099Y2 Page 5 of 9



# 12.2. Persistence and Degradability

Data not available.

### 12.3. Bioaccumulative Potential

Data not available.

## 12.4. Mobility in Soil

Data not available.

# 12.5. Other Adverse Ecological Effects

Data not available.

# **SECTION 13: Disposal Considerations**

### 13.1. Waste Treatment Methods

Data not available.

# **SECTION 14: Transportation Information**

# 14.1. Transportation by Land-Department of Transportation (DOT, United States of America)

Not regulated according to DOT Regulations.

Product Number: RA0099Y2 Page 6 of 9



14.2. Transportation by Air - International Air Transport Association (IATA)

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

# **SECTION 15: Regulatory Information**

- 15.1. Occupational Safety and Health Administration (OSHA) Hazards
  Not listed.
- 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

  Not listed.
- 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals Not listed.
- 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

  Not listed.
- 15.5. Massachusetts Right-to-Know Substance List Not listed.

Product Number: RA0099Y2 Page **7** of **9** 



### 15.6. Pennsylvania Right-to-Know Hazardous Substances

Not listed.

### 15.7. New Jersey Worker and Community Right-to-Know Components

Not listed.

### 15.8. California Proposition 65

Not listed.

#### 15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Ethylenediaminetetraacetic Acid (EDTA), Dipotassium Salt, Dihydrate (CAS # 25102-12-9): Present (DSL)

Ethylenediaminetetraacetic Acid (EDTA), Dipotassium Salt, Dihydrate (CAS # 25102-12-9): Present (NDSL)

Sodium Citrate Dihydrate (CAS # 6132-04-3): Present (DSL)

Sodium Citrate Dihydrate (CAS # 6132-04-3): Present (NDSL)

### 15.10. United States of America Toxic Substances Control Act (TSCA) List

Ethylenediaminetetraacetic Acid (EDTA), Dipotassium Salt, Dihydrate (CAS # 25102-12-9): Present Sodium Citrate Dihydrate (CAS # 6132-04-3): Present

# 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Ethylenediaminetetraacetic Acid (EDTA), Dipotassium Salt, Dihydrate (CAS # 25102-12-9): 217-895-0

Ethylenediaminetetraacetic Acid (EDTA), Dipotassium Salt, Dihydrate (CAS # 25102-12-9): 230-943-5

Sodium Citrate Dihydrate (CAS # 6132-04-3): 200-675-3

Sodium Citrate Dihydrate (CAS # 6132-04-3): 213-618-2

### **SECTION 16: Other Information**

### 16.1. Full Text of Hazard Statements and Precautionary Statements

#### 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

**Biohazardous Infectious Materials Hazard Class:** Not Applicable.

Product Number: RA0099Y2 Page 8 of 9



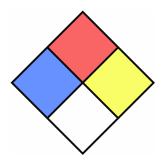
# 16.3. National Fire Protection Association (NFPA) Rating

Health:

Flammability:

Reactivity:

**Special Hazard:** 



#### 16.4. Document Revision

Last Revision Date: 2020-08-15

# **DISCLAIMER**

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and Xylem Analytics assumes no legal responsibility or liability whatsoever resulting from its use.

Product Number: RA0099Y2 Page 9 of 9