IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300



Manufacturer: Poly Scientific R&D Corp

70 Cleveland Ave Bay Shore, NY 11706 631-586-0400 polyrnd@polyrnd.com www.polyrnd.com **Hazardous Materials Identification System** 

Health......
Flammability......
Reactivity......
\*PPE.....

\*See Section 8

#### Section 1. Chemical Product and Company Identification

Item Number: s2014-1

Common Name: Protargol Dry Pack Chemical Name(s): Silver Proteinate Chemical Family: Enzyme Chemical Formula: Mixture

#### Section 2. Composition Information

Exposure Limits(A blank value indicates no information available)

Component CAS# PEL(mg/m3) STEL(mg/m3) CEIL(mg/m3)

Silver Proteinate 9008-42-8 0.01

#### Section 3. Hazards Identification

Potential Acute Health Effects: Hazardous in case of inhalation, eye contact, skin contact, ingestion

Potential Chronic Health Effects: N/A

#### Section 4. First Aid Measures

Eye Contact: Check for and remove contact lenses. Wash with large amounts of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing and shoes. Wash the affected area with large with soap and water. Seek medical attention

**Ingestion:** Give two glasses of water to a conscious victim. Do not induce vomiting. Seek medical attention

Inhalation: Move person to fresh air. If neccessary give CPR; warning this could pose a risk of exposure to the rescue breather. Seek medical attention

### Section 5. Fire and Explosion Data

Flash Point (F) TCC: N/A

Lower Flammability Limit (%): N/A Upper Flammability Limit (%): N/A

Extinguishing Media: Use extinguishing media appropriate for surrounding fire

Special Fire and Explosion Remarks: N/A

## Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Pick up and containerize for proper disposal Spill Cleanup: Take up spills with absorbant material and containerize for proper disposal

#### Section 7. Handling and Storage

Storage and Handling Special: N/A

Storage and handling: Keep container tightly closed. Store in a cool, dry area and protect from physical damage

### Section 8. Exposure Controls/Personal Protection

Personal Protective Equipment: Face Shield, Gloves, Synthetic Apron

This information is provided as a guide but proper PPE can only be determined by the end user and their situation.

Engineering Controls: Provide local exhaust ventilation to keep the airborne concentrations of vapors below their respective threshold limit values. Ensure that eyewash stations and safety showers are local to the work-station.

## Section 9. Physical and Chemical Properties

Note: N/A

 Appearence
 : clear, colorless
 Odor
 : N/A

 pH
 : N/A
 Specific Gravity (@20C)
 : N/A

 Vapor Pressure (mm Hg)
 : N/A
 Vapor Density (Air=1)
 : N/A

 Volatile Percent
 : N/A
 Water Soluable?
 : Yes

### Section 10. Stability and reactivity

Special Remarks on Stability: Stable Special Remarks on Reactivity: N/A

Water Reactive: No

#### Section 11. Toxological Information

Routes of Entry: Inhalation, Skin Absorption, Ingestion

Animal Toxicity: No toxicity data available
Human Toxic Effects: Target Organs: N/A

#### s2014-1

# **MATERIAL SAFETY DATA SHEET**

IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

Section 12. Ecological Information

**Ecological Information: N/A** 

Section 13. Disposal Considerations

Waste Disposal: Dispose of in accordance with local, state and federal laws.

Section 14. Transport Information

DOT Identification: Non Hazardous

Section 15. Regulatory Information
State Regulations: New York release reporting list: N/A Sara Section 311 Reporting

CAS# Acute Chronic Fire Pressure Reactive SARA302 SARA313 CERCLA RCRA Component

Silver Proteinate 9008-42-8 No No No No No No No No No

Section 16. Other Information

**Review Date:** 6/27/2013 Reviewed by: tsc MSDS Group Id: 170

Notice: This MSDS applies only to the material as packaged. If the material is altered by any means it may pose risks not mentioned here.

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IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300



Manufacturer: Poly Scientific R&D Corp

70 Cleveland Ave Bay Shore, NY 11706 631-586-0400 polyrnd@polyrnd.com www.polyrnd.com

**Hazardous Materials Identification System** 

Health..... 3 Flammability....: 0 Reactivity..... 0 \***PPE**.....: g

\*See Section 8

#### Section 1. Chemical Product and Company Identification

Item Number: s203-1

Common Name: Gold Chloride 1% Aqueous

Chemical Name(s): Gold Chloride Chemical Family: Metal Halide Chemical Formula: Mixture

Section 2. Composition Information

Exposure Limits(A blank value indicates no information available)

STEL(mg/m3) CEIL(mg/m3) Component CAS# PEL(mg/m3)

Gold Chloride 16961-25-4

Section 3. Hazards Identification

Potential Acute Health Effects: Hazardous in case of inhalation, eye contact, skin contact, ingestion

Potential Chronic Health Effects: N/A

#### Section 4. First Aid Measures

Eye Contact: Check for and remove contact lenses. Wash with large amounts of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing and shoes. Wash the affected area with large with soap and water. Seek medical attention

Ingestion: Give two glasses of water to a conscious victim. Do not induce vomiting. Seek medical attention

Inhalation: Move person to fresh air. If neccessary give CPR; warning this could pose a risk of exposure to the rescue breather. Seek medical attention

### Section 5. Fire and Explosion Data

Flash Point (F) TCC: N/A

Lower Flammability Limit (%): N/A Upper Flammability Limit (%): N/A

Extinguishing Media: Water Spray, Dry Chemical, Alcoholic Foam, Carbon Dioxide,

Special Fire and Explosion Remarks: N/A

## Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Pick up with absorbent material.

Spill Cleanup: Take up spills with absorbant material and containerize for proper disposal

#### Section 7. Handling and Storage

Storage and Handling Special: Refrigerate

Storage and handling: Keep container tightly closed. Store in a cool, dry area and protect from physical damage

### Section 8. Exposure Controls/Personal Protection

Personal Protective Equipment: Safety Glasses, Gloves, Vapor Respirator

This information is provided as a guide but proper PPE can only be determined by the end user and their situation.

Engineering Controls: Provide local exhaust ventilation to keep the airborne concentrations of vapors below their respective threshold limit values. Ensure that eyewash stations and safety showers are local to the work-station.

## Section 9. Physical and Chemical Properties

Note: N/A

Appearence .....: clear gold Specific Gravity (@20C) .....: N/A pH.....: N/A . Vapor Pressure (mm Hg).....: N/A Vapor Density (Air=1) ...... N Volatile Percent.....: N/A Water Soluable?....: Yes

### Section 10. Stability and reactivity

Special Remarks on Stability: Stable Special Remarks on Reactivity: N/A

Water Reactive: No

#### Section 11. Toxological Information

Routes of Entry: Inhalation, Ingestion, Skin Absorption

Animal Toxicity: Intravenous (LDLo) 75 mg/kg (Mouse); Subcutaneous (TDLo) 75 22106 ug/kg (Mouse); Intratesticular TDLo) 5527 ug/kg (Rat)

Human Toxic Effects: Target Organs: None

#### s203-1

# **MATERIAL SAFETY DATA SHEET**

IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

Section 12. Ecological Information

**Ecological Information: N/A** 

Section 13. Disposal Considerations

Waste Disposal: Dispose of in accordance with local, state and federal laws.

Section 14. Transport Information

DOT Identification: Non Hazardous

Section 15. Regulatory Information
State Regulations: New York Release reporting list: N/A Sara Section 311 Reporting

Acute Chronic CAS# Fire Pressure Reactive SARA302 SARA313 CERCLA RCRA Component

Gold Chloride 16961-25-4 No No No No No No No No No

Section 16. Other Information

**Review Date:** 6/3/2013 Reviewed by: tsc MSDS Group Id: 65

Notice: This MSDS applies only to the material as packaged. If the material is altered by any means it may pose risks not mentioned here.

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IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300



Manufacturer: Poly Scientific R&D Corp

70 Cleveland Ave Bay Shore, NY 11706 631-586-0400 polyrnd@polyrnd.com www.polyrnd.com

#### **Hazardous Materials Identification System**

\*See Section 8

#### Section 1. Chemical Product and Company Identification

Item Number: s2012-1

Common Name: Oxalic Acid 2% Aqueous Chemical Name(s): Oxacic Acid Chemical Family: Carboxylic Acid. Aliphatic

Chemical Formula: Mixture

Section 2. Composition Information

Exposure Limits(A blank value indicates no information available)

 Component
 CAS#
 PEL(mg/m3)
 STEL(mg/m3)
 CEIL(mg/m3)

 Oxacic Acid
 6153-56-6
 2.00
 1.00

Section 3. Hazards Identification

Potential Acute Health Effects: Hazardous in case of inhalation, eye contact, skin contact, ingestion

Potential Chronic Health Effects: Mutation references cited, reproductive effects

#### Section 4. First Aid Measures

Eye Contact: Check for and remove contact lenses. Wash with large amounts of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing and shoes. Wash the affected area with large with soap and water. Seek medical attention

**Ingestion:** Give two glasses of water to a conscious victim. Do not induce vomiting. Seek medical attention

Inhalation: Move person to fresh air. If neccessary give CPR; warning this could pose a risk of exposure to the rescue breather. Seek medical attention

### Section 5. Fire and Explosion Data

Flash Point (F) TCC: N/A

Lower Flammability Limit (%): N/A Upper Flammability Limit (%): N/A

Extinguishing Media: Dry Chemical, Carbon Dioxide, Water Spray, Alcoholic Foam

Special Fire and Explosion Remarks: N/A

## Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Pick up with absorbent vermiculite

Spill Cleanup: Take up spills with absorbant material and containerize for proper disposal

#### Section 7. Handling and Storage

Storage and Handling Special: N/A

Storage and handling: Keep container tightly closed. Store in a cool, dry area and protect from physical damage

### Section 8. Exposure Controls/Personal Protection

Personal Protective Equipment: Safety Glasses, Gloves, Synthetic Apron

This information is provided as a guide but proper PPE can only be determined by the end user and their situation.

Engineering Controls: Provide local exhaust ventilation to keep the airborne concentrations of vapors below their respective threshold limit values. Ensure that eyewash stations and safety showers are local to the work-station.

# Section 9. Physical and Chemical Properties

Note: N/A

 Appearence
 : clear colorless
 Odor
 : N/A
 N/A

 pH
 : N/A
 Specific Gravity (@20C)
 : N/A

 Vapor Pressure (mm Hg)
 : N/A
 Vapor Density (Air=1)
 : N/A

 Volatile Percent
 : N/A
 Water Soluable?
 : Yes

## Section 10. Stability and reactivity

Special Remarks on Stability: Stable Special Remarks on Reactivity: N/A

Water Reactive: No

# Section 11. Toxological Information

Routes of Entry: Inhalation, Skin Absorption, Ingestion

Animal Toxicity: Skin (Rabbit) 250 ug/24hrs Mild Irritation; Eye (Rabbit) 250 ug/24hrs Severe Irritation; Eye (Rabbit) rinsed 100 mg/4 seconds \$1.00 mg/4 second \$1.00 mg/4 seconds \$1.00 mg/4 seconds \$1.00 mg/4 seconds \$1.0

Human Toxic Effects: Target Organs:

#### s2012-1

# **MATERIAL SAFETY DATA SHEET**

IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

Section 12. Ecological Information

**Ecological Information: N/A** 

Section 13. Disposal Considerations

Waste Disposal: Dispose of in accordance with local, state and federal laws.

Section 14. Transport Information

DOT Identification: Non Hazardous

Section 15. Regulatory Information
State Regulations: New York release reporting list: N/A Sara Section 311 Reporting

Acute Chronic CAS# Fire Pressure Reactive SARA302 SARA313 CERCLA RCRA Component

Oxacic Acid 6153-56-6 No No No No No No No No No

Section 16. Other Information

**Review Date:** 6/27/2013 Reviewed by: tsc MSDS Group Id: 168

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IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300



Manufacturer: Poly Scientific R&D Corp

70 Cleveland Ave Bay Shore, NY 11706 631-586-0400 polyrnd@polyrnd.com www.polyrnd.com **Hazardous Materials Identification System** 

 Health
 2

 Flammability
 0

 Reactivity
 0

 \*PPE
 c

\*See Section 8

#### Section 1. Chemical Product and Company Identification

Item Number: s1895-1

Common Name: Sodium Thiosulfate 5% Aqueous Chemical Name(s): Sodium Thiosulfate Penta

Chemical Family: Inorganic Salt Chemical Formula: Mixture

#### Section 2. Composition Information

Exposure Limits(A blank value indicates no information available)

Component CAS# PEL(mg/m3) STEL(mg/m3) CEIL(mg/m3)

Sodium Thisulfate Pental 10102-17-7

#### Section 3. Hazards Identification

Potential Acute Health Effects: Hazardous in case of inhalation, eye contact, skin contact, ingestion

Potential Chronic Health Effects: N/A

#### Section 4. First Aid Measures

Eye Contact: Check for and remove contact lenses. Wash with large amounts of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing and shoes. Wash the affected area with large with soap and water. Seek medical attention

Ingestion: Give two glasses of water to a conscious victim. Do not induce vomiting. Seek medical attention

Inhalation: Move person to fresh air. If neccessary give CPR; warning this could pose a risk of exposure to the rescue breather. Seek medical attention

### Section 5. Fire and Explosion Data

Flash Point (F) TCC: N/A

Lower Flammability Limit (%): N/A Upper Flammability Limit (%): N/A

Extinguishing Media: Dry Chemical, Carbon Dioxide, Water Spray, Alcoholic Foam

Special Fire and Explosion Remarks: N/A

## Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Pick up spill with absorbent vermiculite

Spill Cleanup: Take up spills with absorbant material and containerize for proper disposal

#### Section 7. Handling and Storage

Storage and Handling Special: N/A

Storage and handling: Keep container tightly closed. Store in a cool, dry area and protect from physical damage

### Section 8. Exposure Controls/Personal Protection

Personal Protective Equipment: Safety Glasses, Gloves, Synthetic Apron

This information is provided as a guide but proper PPE can only be determined by the end user and their situation.

Engineering Controls: Provide local exhaust ventilation to keep the airborne concentrations of vapors below their respective threshold limit values. Ensure that eyewash stations and safety showers are local to the work-station.

# Section 9. Physical and Chemical Properties

Note: N/A

 Appearence
 : clear, colorless
 Odor
 : N/A

 pH
 : N/A
 Specific Gravity (@20C)
 : N/A

 Vapor Pressure (mm Hg)
 : N/A
 Vapor Density (Air=1)
 : N/A

 Volatile Percent
 : N/A
 Water Soluable?
 : Yes

### Section 10. Stability and reactivity

Special Remarks on Stability: Stable Special Remarks on Reactivity: N/A

Water Reactive: No

## Section 11. Toxological Information

Routes of Entry: Inhalation, Skin Absorption, Ingestion

Animal Toxicity: Acute Oral (LD50) 2700 mg/kg (Mouse); Acute Oral (LDL0) 300 mg/kg/7 days (Human); I.P (LD50) 5600 mg/kg (Mouse); I.V. (I

Human Toxic Effects: Target Organs: None

#### s1895-1

# **MATERIAL SAFETY DATA SHEET**

IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

Section 12. Ecological Information

**Ecological Information: N/A** 

Section 13. Disposal Considerations

Waste Disposal: Dispose of in accordance with local, state and federal laws.

Section 14. Transport Information

DOT Identification: Non Hazardous

Section 15. Regulatory Information
State Regulations: New York release reporting list: N/A Sara Section 311 Reporting

Acute Chronic CAS# Fire Pressure Reactive SARA302 SARA313 CERCLA RCRA Component

Sodium Thisulfate Pental 10102-17-7 No No No No No No No No No

Section 16. Other Information

Review Date: 6/28/2013 Reviewed by: tsc MSDS Group Id: 112

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IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300



Manufacturer: Poly Scientific R&D Corp

70 Cleveland Ave Bay Shore, NY 11706 631-586-0400 polyrnd@polyrnd.com www.polyrnd.com

**Hazardous Materials Identification System** 

Health..... 1 Flammability.....: 0 Reactivity..... 0 \***PPE**.....: c

\*See Section 8

#### Section 1. Chemical Product and Company Identification

Item Number: s117-1

Common Name: Aniline Blue Bodian Method Chemical Name(s): Deionized Water

Chemical Family: N/A

Chemical Formula: Mixture

### Section 2. Composition Information

Exposure Limits(A blank value indicates no information available)

PEL(mg/m3) STEL(mg/m3) CEIL(mg/m3) Component CAS#

**Deionized Water** 7732-18-5

#### Section 3. Hazards Identification

Potential Acute Health Effects: Hazardous in case of inhalation, eye contact, skin contact and ingestion

Potential Chronic Health Effects: N/A

#### Section 4. First Aid Measures

Eye Contact: Check for and remove contact lenses. Wash with large amounts of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing and shoes. Wash the affected area with large with soap and water. Seek medical attention

Ingestion: Give two glasses of water to a conscious victim. Do not induce vomiting. Seek medical attention

Inhalation: Move person to fresh air. If neccessary give CPR; warning this could pose a risk of exposure to the rescue breather. Seek medical attention

### Section 5. Fire and Explosion Data

Flash Point (F) TCC: NA

Lower Flammability Limit (%): NA Upper Flammability Limit (%): NA

Extinguishing Media: Water Spray, Dry Chemical, or Carbon Dioxide

Special Fire and Explosion Remarks: NA

## Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Pick up with absorbent material

Spill Cleanup: Take up spills with absorbant material and containerize for proper disposal

#### Section 7. Handling and Storage

Storage and Handling Special: Refrigerate

Storage and handling: Keep container tightly closed. Store in a cool, dry area and protect from physical damage

### Section 8. Exposure Controls/Personal Protection

### Personal Protective Equipment: N/A

This information is provided as a guide but proper PPE can only be determined by the end user and their situation.

Engineering Controls: Provide local exhaust ventilation to keep the airborne concentrations of vapors below their respective threshold limit values. Ensure that eyewash stations and safety showers are local to the work-station.

# Section 9. Physical and Chemical Properties

Note: N/A

Appearence .....: clear blue Specific Gravity (@20C)......: 1.0 pH.....: N/A Vapor Pressure (mm Hg)......: 760 Vapor Density (Air=1) ...... N/A Volatile Percent.....: N/A Water Soluable?....: Yes

### Section 10. Stability and reactivity

Special Remarks on Stability: Stable Special Remarks on Reactivity: NA

Water Reactive: No

## Section 11. Toxological Information

Routes of Entry: Ingestion

Animal Toxicity: Acute Oral (TDLo) 368 mg/kg (Rabbit); Intravenous (LDLo) 13 gm/kg (Rabbit); Acute Oral (LDLo) 629 gm/kg (Dog)

Human Toxic Effects: Target Organs: N/A

#### s117-1

# **MATERIAL SAFETY DATA SHEET**

IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

Section 12. Ecological Information

**Ecological Information: N/A** 

Section 13. Disposal Considerations

Waste Disposal: Dispose of in accordance with local, state and federal laws.

Section 14. Transport Information

DOT Identification: Non Hazardous

Section 15. Regulatory Information
State Regulations: New York release reporting list: N/A Sara Section 311 Reporting

Acute Chronic CAS# Fire Pressure Reactive SARA302 SARA313 CERCLA RCRA Component

Deionized Water 7732-18-5 No No No No No No No No No

Section 16. Other Information

Review Date: 5/29/2013 Reviewed by: tsc MSDS Group Id: 2

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