# SAFETY DATA SHEET

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s2033-1

#### Section 1. Product and Company Identification

Item Number .: s2033-1

Common Name .: Orcein Solution 1% pH 1.0-2.0

Intended Use : In Vitro Diagnostic use. Laboratory Use Only

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

Manufacturer.: Poly Scientific R&D Corp.

70 Cleveland Ave Bay Shore NY 11706

polyrnd@polyrnd.com

#### Section 2. Hazard Identification

290 Corrosive to Metals Cat 1

302 Acute toxicity, oral Cat 4

315 Skin corrosion/irritation Cat 2

318 Serious eye damage/eye irritation Cat 1

335 Specific target organ toxicity, single exposure; Respiratory tract irritation Cat 3

350 Carcinogenicity Cat 1A, 1B



#### Danger

May be corrosive to metals. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause cancer.

Obtain special instructions before use. Do not handle until all precautions have been and understood. Wash hands/skin thoroughly after handling. If exposed: Call a POISON CENTER or doctor/physician. Do not eat, drink or smoke when using this product. Do not breathe dust/fumes/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Use only in well-ventilated area. In case of inadequate ventilation wear respiratory ventilation. Keep in original container. IF INHALED: Remove victim to fresh area and keep at rest in a position comfortable for breathing. Immediately call POISON CENTER or docot/physician. IF ON SKIN: Wash skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. 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 doctor/physician. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Absorb spillage to prevent material damage. Store locked up and in a dry, well-ventilated place. Keep container tightly closed. Dispose of contents /container to an approved waste disposal plant.

Hazards not otherwise covered by GHS: None

#### Section 3. Composition Information

Exposure Limits(A blank value indicates no information available) The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Ethyl Alcohol	64-17-5		1,900.00		>50%
Orcein-Synthetic	1400-62-0				0-5%
Isopropyl Alcohol	67-63-0	1,225.00	980.00		0-5%
Hydrochloric Acid	7647-01-0	5.00		5.00	0-5%
Methyl Alcohol	67-56-1	325.00	260.00		0-5%

#### 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

The most important known symptoms and effects are described in section 2 and/or section 11.

#### Section 5. Fire Fighting Measures

Extinguishing Media .: Use Dry Chemical, Foam or Carbon Dioxide

Special Fire and Explosion Remarks ..: N/A

#### Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special ..: Eliminate all ignition sources. Neutralize with alkaline material (soda ash, lime etc). Take up spills with absorbent material Spill Cleanup.: Take up spills with absorbant material and containerize for proper disposal. Use proper PPE as per section 8. Provide ventilation.

### 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 ..: Splash Goggles, Gloves, Synthetic Apron, 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

Appearence Clear purple liquid	Evaporation Rate N/A	Water Soluable? Yes
Odor: N/A	Upper Flammability Limit (%).: N/A	Volatile Percent: 100
Odor Threshhold N/A	Lower Flammability Limit (%): N/A	Partition Coefficient n-octanol/water: N/A
pH: N/A	Specific Gravity (@20C): 0.791	Auto Ignition Temp N/A
Melting Point N/A	Vapor Pressure (mm Hg): 3.8	Decomposition Temp: N/A
Boiling Point N/A	Vapor Density (Air=1) 106	Viscosity N/A
Flash Point (F) TCC N/A	Relative Density N/A	

#### Section 10. Stability and reactivity

Special Remarks on Stability ..: Stable

Special Remarks on Reactivity ..: N/A

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s2033-1

### Section 11. Toxological Information

Routes of Entry.: Inhalation, Skin Absorption, Ingestion

Animal Toxicity :: Hydrochloric Acid: Acute Oral (LD5O) 900 mg/kg (Rat); Orcein, Synthetic: The toxicological propertied have not been thoroughtly investigated. Ethyl Alcohol: Acute Oral (LD50) 7060 mg/kg (Rat) Acute Dermal 500mg/24hr (Rabbit); Methyl Alcohol: Acute Oral (LD50) 5628 mg/kg (Rat) Acute Dermal 500mg/24hr (Rabbit); Isopropyl Alcohol: Acute Oral (LD50) 5045

Human Toxic Effects .: Target Organs: Eyes, skin, respiratory system

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

Potential Chronic Health Effects ..: Isopropyl Alcohol: IARC Code 3; Hydrochloric Acid: IARC Code 3

### 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 .: UN1789, Hydrochloric Acid,8,II

#### Section 15. Regulatory Information

State Regulations.: New York release reporting list: Hydrochloric Acid

#### Sara Section 311 Reporting

Component	CAS#	Acute	Э	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
Ethyl Alcohol	64-17-5	No	No	No	No	No	No	Yes	Yes	No	
Orcein-Synthetic	1400-62-0	No	No	No	No	No	No	No	No	No	
Isopropyl Alcohol	67-63-0	No	No	No	No	No	No	Yes	No	No	
Hydrochloric Acid	7647-01-0	No	No	No	No	No	Yes	Yes	Yes	No	
Methyl Alcohol	67-56-1	No	No	No	No	No	No	Yes	Yes	No	

Section 16. Other Information Review Date : 3/14/2023 Reviewed by: Admin MSDS Group Id.:

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

It is the user's responcibility to develope proper methods of handling and personal protection based on the actual conditions of use.

#### s2034-1

SAFETY DATA SHEET

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#### Section 1. Product and Company Identification

Item Number .: s2034-1

Common Name .: Oxalic Acid 1.5% Aqueous

Intended Use: In Vitro Diagnostic use. Laboratory Use Only

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

Manufacturer.: Poly Scientific R&D Corp.

70 Cleveland Ave Bay Shore NY 11706

polyrnd@polyrnd.com

### Section 2. Hazard Identification

302 Acute toxicity, oral Cat 4

312 Acute toxicity, dermal Cat 4

318 Serious eye damage/eye irritation Cat 1



#### Danger

Harmful if swallowed. Harmful in contact with skin. Causes serious eye damage.

Wash hands/ skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face 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 docotor/physician. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Store locked up. Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise covered by GHS: None

#### Section 3. Composition Information

Exposure Limits (A blank value indicates no information available) The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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

 Oxalic Acid
 6153-56-6
 2.00
 1.00
 0-5%

#### 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

The most important known symptoms and effects are described in section 2 and/or section 11.

#### Section 5. Fire Fighting Measures

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. Use proper PPE as per section 8. Provide ventilation.

# 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

Appearence Colorless liquid	Evaporation Rate N/A	Water Soluable? Yes
Odor: N/A	Upper Flammability Limit (%).: N/A	Volatile Percent N/A
Odor Threshhold: N/A	Lower Flammability Limit (%): N/A	Partition Coefficient n-octanol/water: N/A
pH: N/A	Specific Gravity (@20C): N/A	Auto Ignition Temp N/A
Melting Point: N/A	Vapor Pressure (mm Hg): N/A	Decomposition Temp: N/A
Boiling Point: N/A	Vapor Density (Air=1) N/A	Viscosity N/A
Flash Point (F) TCC N/A	Relative Density N/A	·

#### Section 10. Stability and reactivity

Special Remarks on Stability ..: Stable

Special Remarks on Reactivity..: N/A

s2034-1 SAFETY DATA SHEET

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### Section 11. Toxological Information

Routes of Entry.: Inhalation, Skin Absorption, Ingestion

Animal Toxicity .: Eye (rabbit) 500 mg/24hrs Mild Irritation; Eye (Rabbit) 250 ug/24hrs Severe Irritation; Eye (Rabbit) rinsed 100 mg/4 seconds Severe Irritation; Acute Oral (LD50) 7500 mg/kg (Rat); Acute Oral (LDLO) 112 mg/kg (Cat) Subcutaneous (LD50) 270 mg/kg (Cat); Intraperitoneal (LD50) 270 mg/kg (Mouse)

Human Toxic Effects .: Target Organs: Eyes, Skin, Respiratory System and Kidneys

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

Potential Chronic Health Effects ..: N/A

### 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

Component CAS# Chronic Pressure Reactive SARA302 SARA313 CERCLA **RCRA** Oxalic Acid 6153-56-6 No No No No No

Section 16. Other Information

Review Date : 3/14/2023 Reviewed by : Admin MSDS Group Id.:

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

It is the user's responcibility to develope proper methods of handling and personal protection based on the actual conditions of use.

s2037a-1

SAFETY DATA SHEET

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#### Section 1. Product and Company Identification

Item Number .: s2037a-1

Common Name.: Potassium Permanganate Acidified Solution A Intended Use: In Vitro Diagnostic use. Laboratory Use Only

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

Manufacturer.: Poly Scientific R&D Corp.

70 Cleveland Ave Bay Shore NY 11706

polyrnd@polyrnd.com

#### Section 2. Hazard Identification

HARMFUL IF SWALLOWED OR INHALED

Avoid breathing dust or vapor. May be irritating to eyes, skin, and respiratory system. Wear safety goggles and rubber gloves to avoid contact. Wash thoroughly after handling. Keep container tightly

closed.

EFFECTS OF EXPOSURE. Ingestion may cause nausea and abdominal pain. Mild irritant to skin and eyes.

TARGET ORGANS. None

FIRST AID. Call a physician at once!

For Fire. Use extinguishing media appropriate for surrounding fire.

For Spill. Eliminate ignition sources. Pick up with absorbent material and containerize for proper disposal.

Hazards not otherwise covered by GHS: None

#### Section 3. Composition Information

Exposure Limits(A blank value indicates no information available) The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Component No OSHA hazardous CAS#

PEL(mg/m3)

STEL(ma/m3)

CEIL(mg/m3)

Concentration Range

No OSHA hazardous Components

#### 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

The most important known symptoms and effects are described in section 2 and/or section 11.

#### Section 5. Fire Fighting Measures

Extinguishing Media .: N/A

Special Fire and Explosion Remarks ..: NA

#### Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special ..: N/A

Spill Cleanup.: Take up spills with absorbant material and containerize for proper disposal. Use proper PPE as per section 8. Provide ventilation.

# 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 ..: 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

Appearence Colorless liquid	Evaporation Rate N/A	Water Soluable? Yes
Odor N/A	Upper Flammability Limit (%).: NA	Volatile Percent N/A
Odor Threshhold: N/A	Lower Flammability Limit (%): NA	Partition Coefficient n-octanol/water: N/A
pH: N/A	Specific Gravity (@20C): N/A	Auto Ignition Temp N/A
Melting Point N/A	Vapor Pressure (mm Hg): N/A	Decomposition Temp N/A
Boiling Point N/A	Vapor Density (Air=1) N/A	Viscosity N/A
Flash Point (F) TCC · NA	Relative Density N/A	•

#### Section 10. Stability and reactivity

Special Remarks on Stability ..: N/A

Special Remarks on Reactivity..: N/A

s2037a-1

SAFETY DATA SHEET

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# Section 11. Toxological Information

Routes of Entry.: N/A

Animal Toxicity .: N/A

Human Toxic Effects .: N/A

Potential Acute Health Effects..: N/A

Potential Chronic Health Effects ..: N/A

## 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

Component C	CAS#	Acu	ite	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
No OSHA hazardous		No	No	No	No	No	No	No	No	No	
Components		No	No	No	No	No	No	No	No	No	

Section 16. Other Information

Reviewed by : Admin MSDS Group Id .:

Notice: This SDS 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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SAFETY DATA SHEET

s2037b-1

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#### Section 1. Product and Company Identification

Item Number .: s2037b-1

Common Name.: Potassium Permanganate Acidified Solution B Intended Use: In Vitro Diagnostic use. Laboratory Use Only

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

Manufacturer.: Poly Scientific R&D Corp.

70 Cleveland Ave Bay Shore NY 11706

polyrnd@polyrnd.com

#### Section 2. Hazard Identification

HARMFUL IF SWALLOWED OR INHALED

Avoid breathing dust or vapor. May be irritating to eyes, skin, and respiratory system. Wear safety goggles and rubber gloves to avoid contact. Wash thoroughly after handling. Keep container tightly

closed.

EFFECTS OF EXPOSURE. Ingestion may cause nausea and abdominal pain. Mild irritant to skin and eyes.

TARGET ORGANS. None

FIRST AID. Call a physician at once!

For Fire. Use extinguishing media appropriate for surrounding fire.

For Spill. Eliminate ignition sources. Pick up with absorbent material and containerize for proper disposal.

Hazards not otherwise covered by GHS: None

#### Section 3. Composition Information

Exposure Limits(A blank value indicates no information available) The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Component No OSHA hazardous CAS#

PEL(mg/m3)

STEL(ma/m3)

CEIL(mg/m3)

Concentration Range

Components

#### 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

The most important known symptoms and effects are described in section 2 and/or section 11.

#### Section 5. Fire Fighting Measures

Extinguishing Media .: N/A

Special Fire and Explosion Remarks ..: NA

#### Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special ..: N/A

Spill Cleanup.: Take up spills with absorbant material and containerize for proper disposal. Use proper PPE as per section 8. Provide ventilation.

# 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 ..: 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

Appearence Colorless liquid	Evaporation Rate N/A	Water Soluable? Yes
Odor N/A	Upper Flammability Limit (%).: NA	Volatile Percent N/A
Odor Threshhold N/A	Lower Flammability Limit (%): NA	Partition Coefficient n-octanol/water: N/A
pH N/A	Specific Gravity (@20C) N/A	Auto Ignition Temp: N/A
Melting Point N/A	Vapor Pressure (mm Hg) N/A	Decomposition Temp: N/A
Boiling Point N/A	Vapor Density (Air=1) N/A	Viscosity N/A
Flash Point (F) TCC NA	Relative Density N/A	

#### Section 10. Stability and reactivity

Special Remarks on Stability ..: N/A

Special Remarks on Reactivity..: N/A

s2037b-1

SAFETY DATA SHEET

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# Section 11. Toxological Information

Routes of Entry.: N/A

Animal Toxicity .: N/A

Human Toxic Effects .: N/A

Potential Acute Health Effects..: N/A

Potential Chronic Health Effects ..: N/A

## 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

Component CAS#	А	cute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
No OSHA hazardous	No	No	No	No	No	No	No	No	No	
Components	No	No	No	No	No	No	No	No	No	

Section 16. Other Information

Reviewed by : Admin MSDS Group Id .:

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

It is the user's responcibility to develope proper methods of handling and personal protection based on the actual conditions of use.