

## Section 1. Product and Company Identification

Item Number: s111a-1  
 Common Name: Alcian Blue 1% in 3% Acetic Acid pH 2.5  
 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  
 631-586-0400  
 polyrnd@polyrnd.com  
 www.polyrnd.com

## Section 2. Hazard Identification

315 Skin corrosion/irritation Cat 2  
 320 Serious eye damage/eye irritation Cat 2B  
 335 Specific target organ toxicity, single exposure: Respiratory tract irritation Cat 3



## Warning

Causes skin irritation.  
 Causes serious eye irritation.  
 May cause respiratory irritation.

Wash hands/ skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use only in well-ventilated area. In case of inadequate ventilation wear respiratory ventilation. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. 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)

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Acetic Acid, Glacial	64-19-7	15.00	10.00		0-5%
Alcian Blue	33864-99-2				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 necessary 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: Water, Dry Chemical, Foam or Carbon Dioxide  
 Special Fire and Explosion Remarks: N/A

## Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Caution! Corrosive, neutralize with Sodium Bicarbonate or similar  
 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, 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

Appearance .....	clear blue	Evaporation Rate .....	N/A	Water Soluable? .....	Yes
Odor .....	Slight vinegar	Upper Flammability Limit (%)..	N/A	Volatile Percent .....	100
Odor Threshold .....	N/A	Lower Flammability Limit (%)..	N/A	Partition Coefficient .....	n-octanol/water: N/A
pH .....	N/A	Specific Gravity (@ 20C) .....	1.05	Auto Ignition Temp. ....	N/A
Melting Point .....	N/A	Vapor Pressure (mm Hg) .....	11	Decomposition Temp .....	N/A
Boiling Point .....	N/A	Vapor Density (Air=1) .....	2.1	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

Water Reactive: No

**Section 11. Toxicological Information**

Routes of Entry: Inhalation, Skin absorption, Ingestion

Animal Toxicity: Acute Oral (LD50): 3310 mg/kg (Rat); Acute Dermal(LD50): 1060 mg/kg (Rabbit); Alcian Blue: Toxicological properties have not been established for this material

Human Toxic Effects: Target Organs: Lungs, mucous membranes, upper respiratory tract, skin, eyes, teeth

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

Potential Chronic Health Effects: Repeated exposure can produce target organ damage.

**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: Glacial Acetic Acid

## Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA 302	SARA 313	CERCLA	RCRA
Acetic Acid, Glacial	64-19-7	No	No	No	No	No	No	No	Yes	No
Alcian Blue	33864-99-2	No	No	No	No	No	No	No	No	No

**Section 16. Other Information**

Review Date: 12/17/2015

Reviewed by: ddi

MSDS Group Id: 9

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.

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

While this MSDS is based on reliable technical data, Poly Scientific R&amp;D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.

## Section 1. Product and Company Identification

Item Number: s272-1  
 Common Name: Schiff Reagent  
 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  
 631-586-0400  
 polyrnd@polyrnd.com  
 www.polyrnd.com

## Section 2. Hazard Identification

290 Corrosive to Metals Cat 1  
 315 Skin corrosion/irritation Cat 2  
 318 Serious eye damage/eye irritation Cat 1  
 350 Carcinogenicity Cat 1A, 1B



Danger

May be corrosive to metals. Causes skin irritation. Causes serious eye damage. May cause cancer.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands/skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Keep only in original container. Absorb spillage to prevent material damage. If exposed or concerned: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash 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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Store in a closed container. 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)

Component	CAS#	PEL(mg/m <sup>3</sup> )	STEL(mg/m <sup>3</sup> )	CEIL(mg/m <sup>3</sup> )	Concentration Range
Hydrochloric Acid	7647-01-0	5.00		5.00	0-5%
Basic Fuchsin	569-61-9				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 necessary 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, Carbon Dioxide, Water Spray, Alcohol Foam

Special Fire and Explosion Remarks : N/A

## Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special : Wear protective clothing and respiratory equipment. Neutralize with soda ash or lime and pick up with absorbent material.

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

## 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

Appearance .....	clear, colorless	Evaporation Rate .....	N/A	Water Soluable? .....	Yes
Odor .....	N/A	Upper Flammability Limit (%) ..	N/A	Volatile Percent .....	N/A
Odor Threshold .....	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

Water Reactive: No

**Section 11. Toxicological Information**

Routes of Entry: Inhalation, Skin Absorption, Ingestion

Animal Toxicity: Hydrochloric Acid: Acute Oral (LD50) 900 mg/kg (Rat) Intraperitoneal (LD50) 1449 mg/kg (Mouse); Basic Fuchsin: Acute Oral (LD50) 5gm/kg (Mouse); Sodium Sulfite: Acute I.V (LD50) 115 mg/kg (Rat) Intraperitoneal (LD50) 959 mg/kg (Mouse)

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 : Hydrochloric Acid: IARC Code 3; Basic Fuchsin IARC Group 2B

**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	Chronic	Fire	Pressure	Reactive	SARA 302	SARA 313	CERCLA	RCRA
Hydrochloric Acid	7647-01-0	No	No	No	No	No	Yes	Yes	Yes	No
Basic Fuchsin	569-61-9	No	No	No	No	No	No	No	No	No

**Section 16. Other Information**

Review Date: 12/17/2015

Reviewed by: ddi

MSDS Group Id: 107

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.

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

While this MSDS is based on reliable technical data, Poly Scientific R&amp;D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.

## Section 1. Product and Company Identification

Item Number: s216-1  
 Common Name: Mayer's Modified Hematoxylin  
 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  
 631-586-0400  
 polyrnd@polyrnd.com  
 www.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)

Component	CAS#	PEL(mg/m <sup>3</sup> )	STEL(mg/m <sup>3</sup> )	CEIL(mg/m <sup>3</sup> )	Concentration Range
Hematoxylin	517-28-2				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 necessary 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, or Foam

Special Fire and Explosion Remarks: N/A

## Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: 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: 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

Appearance.....: clear purple	Evaporation Rate.....: N/A	Water Soluable?.....: Yes
Odor.....: N/A	Upper Flammability Limit (%): N/A	Volatile Percent.....: N/A
Odor Threshold.....: 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

Water Reactive: No

**Section 11. Toxicological Information**

Routes of Entry: Inhalation, Skin Absorption, Ingestion

Animal Toxicity: Hematoxylin: Acute Oral (TDLO) 400 gm/kg ( Rat);

Human Toxic Effects: Target Organs: Nerves, Kidneys, Eyes, Skin

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#	Acute	Chronic	Fire	Pressure	Reactive	SARA 302	SARA 313	CERCLA	RCRA
Hematoxylin	517-28-2	No	No	No	No	No	No	No	No	No

**Section 16. Other Information**

Review Date: 12/17/2015

Reviewed by: ddi

MSDS Group Id: 71

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.

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

While this MSDS is based on reliable technical data, Poly Scientific R&amp;D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.

## Section 1. Product and Company Identification

Item Number: s1861-1  
 Common Name: Periodic Acid 1% 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  
 631-586-0400  
 polyrnd@polyrnd.com  
 www.polyrnd.com

## Section 2. Hazard Identification

272 Oxidising liquids/ Oxidising solids Cat 2  
 314 Skin corrosion/irritation Cat 1A, B, C



Danger

May intensify fire; oxidiser. Causes severe skin burns and eye damage.

Keep away from heat/sparks/open flames/hot surfaces. -No smoking. Keep/Store away from clothing/ combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands/skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. 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)

Component	CAS#	PEL(mg/m3)	STEL(mg/m3)	CEIL(mg/m3)	Concentration Range
Periodic Acid	10450-60-9				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 necessary 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 or Alcoholic Foam

Special Fire and Explosion Remarks: N/A

## Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Strong Oxidizer. Evacuate. Wear self-contained breathing apparatus, rubber boots, heavy gloves. Pick up with absorbent ver

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

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

Appearance .....	clear colorless	Evaporation Rate .....	N/A	Water Soluable? .....	Yes
Odor .....	N/A	Upper Flammability Limit (%):	N/A	Volatile Percent .....	N/A
Odor Threshold.....	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

Water Reactive: No

**Section 11. Toxicological Information**

Routes of Entry: Inhalation, Skin Absorption, Ingestion

Animal Toxicity: N/A

Human Toxic Effects: Target Organs: None

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: 0; NMFC 43940-02(Liquid, Chemicals, IVD) Class 85 ; 0

**Section 15. Regulatory Information**

State Regulations: New York release reporting list: N/A

## Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA 302	SARA 313	CERCLA	RCRA
Periodic Acid	10450-60-9	No	No	No	No	No	No	No	No	No

**Section 16. Other Information**

Review Date: 12/17/2015

Reviewed by: ddi

MSDS Group Id: 146

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.

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

While this MSDS is based on reliable technical data, Poly Scientific R&amp;D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.



## Section 1. Product and Company Identification

Item Number: s103b-1  
 Common Name: Acid Alcohol 0.5%  
 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  
 631-586-0400  
 polyrnd@polyrnd.com  
 www.polyrnd.com

## Section 2. Hazard Identification

225 Flammable Liquids Cat 2  
 302 Acute toxicity, oral Cat 4  
 370 Specific target organ toxicity, single exposure Cat 1



Danger

Highly flammable liquid and vapour.  
 Harmful if swallowed. Causes damage to CNS, Kidneys and Liver.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray.

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 SWALLOWED:

Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed: Call a POISON CENTER or doctor/physician.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for

extinction. Store in a well-ventilated place tightly closed. Keep cool and 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)

Component	CAS#	PEL(mg/m <sup>3</sup> )	STEL(mg/m <sup>3</sup> )	CEIL(mg/m <sup>3</sup> )	Concentration Range
Ethyl Alcohol	64-17-5		1,900.00		50-100 %
Isopropyl Alcohol	67-63-0	1,225.00	980.00		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 necessary 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 Powder, Alcohol Foam, Carbon Dioxide

Special Fire and Explosion Remarks: N/A

## Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Warning!! Flammable!! Eliminate ignition sources. 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: 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**

Appearance.....: clear colorless	Evaporation Rate.....: N/A	Water Soluable?.....: Yes
Odor.....: Pleasant	Upper Flammability Limit (%): N/A	Volatile Percent.....: 100
Odor Threshold.....: N/A	Lower Flammability Limit (%): N/A	Partition Coefficient.....: n-octanol/water: N/A
pH.....: N/A	Specific Gravity (@ 20C).....: 0.7915	Auto Ignition Temp.....: N/A
Melting Point.....: N/A	Vapor Pressure (mm Hg).....: 52	Decomposition Temp.....: N/A
Boiling Point.....: N/A	Vapor Density (Air=1).....: 1.6	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

Water Reactive: No

**Section 11. Toxicological Information**

Routes of Entry: Inhalation, Skin absorption, Ingestion

Animal Toxicity: Ethyl Alc: Acute Oral (LD50): 7060 mg/kg (Rat); Acute Dermal (LD50): 500 mg/24hr (Rabbit); Methyl Alc: Acute Oral (LD50): 5628 mg/kg (Rat); Acute Dermal (LD50): 500mg/24hr (Rabbit); Isopropyl Alc: Acute Oral (LD50): 5045 mg/kg (Rat); Acute Dermal (LD50): 500mg (Rabbit);

Human Toxic Effects: Target Organs: Respiratory system, skin, eyes, CNS, liver, blood and reproductive system

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

Potential Chronic Health Effects: Isopropyl Alcohol: 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: UN1170; Ethanol Solutions: 3, II

**Section 15. Regulatory Information**

State Regulations: New York release reporting list: N/A

## Sara Section 311 Reporting

Component	CAS#	Acute	Chronic	Fire	Pressure	Reactive	SARA302	SARA313	CERCLA	RCRA
Ethyl Alcohol	64-17-5	No	No	No	No	No	No	Yes	Yes	No
Isopropyl Alcohol	67-63-0	No	No	No	No	No	No	Yes	No	No
Methyl Alcohol	67-56-1	No	No	No	No	No	No	Yes	Yes	No

**Section 16. Other Information**

Review Date: 12/17/2015

Reviewed by: ddi

MSDS Group Id: 4

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.

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

While this MSDS is based on reliable technical data, Poly Scientific R&amp;D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.