Section 1. Chemical Product and Company Identification

Item Number: s162-1
Common Name: Carbol Fuchsin Ziehl Neelsen
Chemical Name(s): Ethyl Alcohol, Methyl Alcohol, Isopropyl Alcohol, Phenol, Basic Fuchsin
Chemical Family: Dye; Hydroxyl, Aromatic; Alcohol
Chemical Formula: Mixture

Section 2. Composition Information

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS#</th>
<th>PEL(mg/m3)</th>
<th>STEL(mg/m3)</th>
<th>CEIL(mg/m3)</th>
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</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>1,900.00</td>
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<tr>
<td>Isopropyl Alcohol</td>
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<td>Phenol</td>
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<tr>
<td>Basic Fuchsin</td>
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<tr>
<td>Methyl Alcohol</td>
<td>67-56-1</td>
<td>325.00</td>
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</table>

Section 3. Hazards Identification

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

Potential Chronic Health Effects: Isopropyl Alcohol: IARC Code 3; Phenol: IARC Code 3

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.

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, 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 absorbent 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 Goggles, 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
Appearance: clear fuschia
Odor: N/A
pH: N/A
Specific Gravity (@20C): N/A
Vapor Pressure (mm Hg): N/A
Vapor Density (Air=1): 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. Toxicological Information

Routes of Entry: Inhalation, Ingestion, Skin absorption

Animal Toxicity: Ethyl Alc: Acute Oral (LD50): 7060 mg/kg (Rat); Acute Dermal (LD50): 500 mg/24hr (Rabbit); Methyl Alc: Acute Oral (LD50): 5670 mg/kg (Rabbit); Acute Dermal (LD50): 850 mg/kg (Rabbit); Basic Fuchsin: Acute Oral (LD50) 5000 mg/kg (Mouse)

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

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; Ethanol solution; ; 0

Section 15. Regulatory Information

State Regulations: New York release reporting list: Phenol

Sara Section 311 Reporting

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS#</th>
<th>Acute</th>
<th>Chronic</th>
<th>Fire</th>
<th>Pressure</th>
<th>Reactive</th>
<th>SARA302</th>
<th>SARA313</th>
<th>CERCLA</th>
<th>RCRA</th>
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<tbody>
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<td>Ethyl Alcohol</td>
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<td>Phenol</td>
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Section 16. Other Information

Review Date: 5/30/2013

Reviewed by: tsc

MSDS Group Id: 28

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&D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.
Section 1. Chemical Product and Company Identification

Item Number: s104-1
Common Name: Acid Alcohol 1%
Chemical Name(s): Ethyl Alcohol, Methyl Alcohol, Isopropyl Alcohol, Hydrochloric Acid
Chemical Family: Acid
Chemical Formula: Mixture

Section 2. Composition Information

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS#</th>
<th>PEL(mg/m³)</th>
<th>STEL(mg/m³)</th>
<th>CEIL(mg/m³)</th>
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</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>1,225.00</td>
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<td>Ethyl Alcohol</td>
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<tr>
<td>Hydrochloric Acid</td>
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<td>5.00</td>
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<td>Methyl Alcohol</td>
<td>67-56-1</td>
<td>325.00</td>
<td>260.00</td>
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</tr>
</tbody>
</table>

Section 3. Hazards Identification

Potential Acute Health Effects: Hazardous in case of eye, skin contact, inhalation, ingestion
Potential Chronic Health Effects: Isopropyl Alcohol: IARC Code 3; Hydrochloric Acid: IARC Code 3

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

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 Powder, Alcohol Foam, Carbon Dioxide
Special Fire and Explosion Remarks: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Warning! Corrosive. Warning! Flammable! Eliminate ignitions. Take up spills with absorbent material.
Spill Cleanup: Take up spills with absorbent 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: Gloves, Splash Goggles, Vapor Respirator, 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: Quantitative data below for
Appearance: clear colorless
Odor: Strong
pH: N/A
Specific Gravity (@20°C): .791
Vapor Pressure (mm Hg): 52
Vapor Density (Air=1): 1.6
Volatile Percent: 100
Water Soluable?: Yes

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 Ether: Acute Oral (LD50): 9750 mg/kg (Rat); Acute Dermal (LD50): 360 mg/kg (Rabbit); Acetone: Acute Oral (LD50): 97.7 mg/kg (Rabbit); Hydrochloric Acid: Acute Oral (LD50): 900 mg/kg (Rat) Intraperitoneal (LD50): 1449 mg/kg (Mouse)

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

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: Hydrochloric Acid, Sara Section 311 Reporting

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS#</th>
<th>Acute</th>
<th>Chronic</th>
<th>Fire</th>
<th>Pressure</th>
<th>Reactive</th>
<th>SARA302</th>
<th>SARA313</th>
<th>CERCLA</th>
<th>RCRA</th>
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</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td>Methyl Alcohol</td>
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Section 16. Other Information

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

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&D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.
Section 1. Chemical Product and Company Identification

Item Number: s188b-1
Common Name: Methylene Blue Working
Chemical Name(s): Deionized Water
Chemical Family: N/A
Chemical Formula: Mixture

Section 2. Composition Information

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS#</th>
<th>PEL(mg/m3)</th>
<th>STEL(mg/m3)</th>
<th>CEIL(mg/m3)</th>
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<tbody>
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</table>

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 necessary 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 absorbent 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
Appearance: clear blue
Odor: None
pH: N/A
Specific Gravity (@20C): 1.0
Vapor Pressure (mm Hg): N/A
Vapor Density (Air=1): N/A
Water Soluble?: 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
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 | SARA302 | SARA313 | CERCLA | RCRA
---        | ---    | ---   | ---     | ---  | ---      | ---      | ---     | ---     | ---     | ---
Deionized Water | 7732-18-5 | No | No | No | No | No | No | No | No | No

Section 16. Other Information

Review Date: 6/27/2013
Reviewed by: tsc
MSDS Group Id: 2

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&D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.