SAFETY DATA SHEET

Section 1. Product and Company Identification

Manufacturer: Poly Scientific R&D Corp
70 Cleveland Ave
Bay Shore, NY 11706
631-586-0400
www.polyrnd.com
polyrnd@polyrnd.com

Item Number: s2044-1

Common Name: Rhodanine Working Solution

Intended Use: In Vitro Diagnostic use. Laboratory Use Only

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

Section 2. Hazard Identification

302 Acute toxicity, oral Cat 4
373 Specific target organ; toxicity repeated exposure Cat 2

Warning: Harmful if swallowed. Causes damage to organs through prolonged or repeated exposure. Wash hands/skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. 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)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS#</th>
<th>PEL(mg/m3)</th>
<th>STEL(mg/m3)</th>
<th>CEIL(mg/m3)</th>
<th>Concentration Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>1,900.00</td>
<td>50-100%</td>
<td></td>
<td>0-5%</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>1,225.00</td>
<td>980.00</td>
<td>0-5%</td>
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<tr>
<td>Methyl Alcohol</td>
<td>67-56-1</td>
<td>325.00</td>
<td>260.00</td>
<td>0-5%</td>
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</tr>
</tbody>
</table>

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 quantities of 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 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: Turbid orange solution

Odor: Pleasant

Odor Threshold: N/A

pH: N/A

Melting Point: N/A

Boiling Point: N/A

Flash Point (F) TCC: N/A

Evaporation Rate: N/A

Upper Flammability Limit (%): N/A

Lower Flammability Limit (%): N/A

Specific Gravity (@20°C): 0.7915

Vapor Pressure (mm Hg): 52

Vapor Density (Air=1): 1.6

Relative Density: N/A

Water Soluable? Yes

Volatile Percent: 100

Partition Coefficient: n-octanol/water: N/A

Auto Ignition Temp.: N/A

Decomposition Temp.: N/A

Viscosity: 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 (LLD50): 500 mg (Rabbit);
- Isopropyl Alc: Acute Oral (LD50): 5045 mg/kg (Rat); Acute Dermal (LD50): 500 mg (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: Non Hazardous

Section 15. Regulatory Information

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

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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Section 16. Other Information

Review Date: 12/1/2015
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&D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.