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:
s2470-1

Common Name:
Lymph Node Revealing Solution

Intended Use:
In Vitro Diagnostic use. Laboratory Use Only

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

Section 2. Hazard Identification

225 Flammable Liquids Cat 2
301 Acute toxicity, oral Cat 3
311 Acute toxicity, dermal Cat 3
314 Skin corrosion/irritation Cat 1A, B, C
334 Sensitisian, respiratory Cat 1
336 Specific target organ toxicity, single exposure; Narcotic effects Cat 3
350 Carcinogenicity Cat 1A, 1B
360 Reproductive toxicity Cat 1A, 1B
370 Specific target organ toxicity, single exposure Cat 1

Danger:
Highly flammable liquid and vapour. Toxic if swallowed or in contact with skin. Causes severe skin burns and eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause drowsiness or dizziness. May damage fertility or the unborn child. Causes damage to eyes, blood and CNS.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands/skin thoroughly after handling. Don’t eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection. Keep container tightly closed, locked in a well ventilated area and cool. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Use precautionary measures against static discharge. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. IF SWALLOWED: Immediately call POISON CENTER or doctor/physician. Rinse mouth. Don’t induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash skin with soap/water/shower. 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. If exposed: Call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention. 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 having respiratory symptoms: Call a POISON CENTER or physician. 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>
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</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>1,900.00</td>
<td>0-5%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetic Acid Glacial</td>
<td>64-19-7</td>
<td>15.00</td>
<td>10.00</td>
<td>0-5%</td>
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<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>1,225.00</td>
<td>9,800.00</td>
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<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>0.37</td>
<td>2.00</td>
<td>0-5%</td>
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</tr>
<tr>
<td>Methyl Alcohol</td>
<td>67-56-1</td>
<td>325.00</td>
<td>260.00</td>
<td>0-5%</td>
<td></td>
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<tr>
<td>Ethyl Acetate</td>
<td>141-78-6</td>
<td></td>
<td>10-25%</td>
<td></td>
<td></td>
</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 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, Foam or Carbon Dioxide

Special Fire and Explosion Remarks:
N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special:
Eliminate ignition sources. Disperse vapors with water spray. Take 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:
N/A

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

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

Odor
- Pungent suffocating

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)
- 0.791

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/24 hr (Severe) (Rabbit); Methyl Alc: Acute Oral (LD50) 5628 mg/kg (Rat) Acute Dermal (LD50) 500 mg/24 hr (Mod Irrit) (Rabbit); Isopropyl Alc: Acute Oral (LD50) 5045 mg/kg (Rat) Acute Dermal 500 mg Mild (Rabbit); Ethyl Acetate: Acute Oral (LD50) 6.1 g/kg (Rat); Formaldehyde: Acute Oral (LD50) 100 mg/kg (Rat) Acute Dermal (LD50) 270 mg/kg (Rabbit); Acetic Acid: Acute Oral (LD50) 3310‐3530 mg/kg (Rat) Dermal (LD50) 1060 mg/kg

Human Toxic Effects
- Target Organs: Eyes, Skin, Respiratory System, Teeth, CNS, GI Tract

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

Potential Chronic Health Effects
- Isopropyl Alcohol: IARC Code 3; Formaldehyde: OSHA Carcinogen; IARC Code 3; NTP Code 2

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: Acetic Acid, Ethyl Acetate, Formaldehyde

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 |
Acetic Acid, Glacial | 64-19-7 | No | No | No | No | No | No | No | No | No |
Isopropyl Alcohol | 67-63-0 | No | No | No | No | No | No | Yes | No | No |
Formaldehyde | 50-00-0 | No | No | No | No | Yes | Yes | Yes | No | No |
Methyl Alcohol | 67-56-1 | No | No | No | No | Yes | Yes | No | No | No |
Ethyl Acetate | 141-78-6 | No | No | No | No | No | No | No | No | No |

Section 16. Other Information

Review Date
- 12/1/2015

Reviewed by
- ddi

MSDS Group Id
- 246

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.