Acetone-Xylene Solution

1. Identification

**Product Name:** Acetone-Xylene Solution  
**Synonyms:** N/A  
**Recommended Use:** N/A  
**Restrictions on Use:** N/A  
**Manufacturer/Supplier:** Avantik Biogroup  
32 Commerce Street  
Springfield, NJ 07081  
1-888-392-8411

2. Hazards Identification

**OSHA Hazard Classification(s):**  
Skin Irritation - Category 2  
Eye Irritation - Category 2A  
Specific Target Organ Toxicity (single exposure) - Category 1  
Specific Target Organ Toxicity (repeated exposure) - Category 2  
Flammable Liquids - Category 2

**Signal Word:** Danger

**Hazard Statement(s):** Causes skin irritation. Causes serious eye irritation. Causes damage to organs (skin, lungs). May cause damage to organs (kidney, liver) through prolonged or repeated exposure. Highly flammable liquid and vapor.

**Pictogram(s):**

**Precautionary Statement(s):**  

Response: If on skin: Wash with plenty of water. Specific treatment (see first aid section on this label). If skin irritation or rash occurs: Get medical attention. Take off all contaminated clothing and wash it before reuse. Wash with plenty of water. If skin irritation occurs: Get medical attention.

Storage: Store locked up. Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with local regulations.

**Descriptions of Hazards not otherwise classified:** N/A

**Percent of mixture with unknown acute toxicity:** N/A

3. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS #</th>
<th>Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td></td>
<td>67-64-1</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Xylene mixture</td>
<td></td>
<td>1330-20-7</td>
<td>Trade Secret</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**Eye Contact:** 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.

**Skin Contact:** If on skin (or hair): Take off immediately all contaminated clothing and wash before reuse. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
**Acetone-Xylene Solution**

**Inhalation:** Remove to fresh air; give artificial respiration if breathing has stopped. Get medical advice/attention if you feel unwell.

**Ingestion:** Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

**Symptoms:** Irritation eyes, skin, nose, throat; headache, dizziness, drowsiness, lassitude (weakness, exhaustion), narcosis; cough; liver damage; anemia; reproductive, teratogenic effects, central nervous system depression, dermatitis.

**Recommendations for immediate medical care/special treatment:** Get medical advice/attention if you feel unwell. Health effects include liver enlargement, narcosis, mild anemia, eye, nose and throat irritation. Health effects on the following organs: eyes, skin, respiratory system, central nervous system.

**5. Fire-Fighting Measures**

**Extinguishing Media:** Dry chemical, carbon dioxide, alcohol foam, water. Use water spray to cool fire-exposed containers and disperse vapors.

**Fire Hazards (Chemical):** OSHA classified Flammable Liquid Category 2

**Special Protective Equipment:** Fire fighters should use self-contained breathing apparatus and protective clothing.

**Precautions for Firefighters:** Carbon monoxide and unidentified organic compounds may be formed during combustion.

**6. Accidental Release Measures**

**Emergency Procedures:** Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all sources of ignition and provide ventilation.

**Protective Equipment:** See section 8

**Environmental Precautions:** Prevent release to the environment by using barriers.

**Containment and Clean-Up Procedures:** Use barriers to prevent spreading. Collect spill in container. Call waste authorities.

**7. Handling and Storage**

**Handling:** Do not breathe vapors. Do not eat, drink or smoke when using this product. Keep away from heat, sparks, open flames, hot surfaces. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

**Storage:** Store locked up. Store in a well-ventilated place. Keep cool.

**8. Exposure Controls/Personal Protection**

**OSHA Permissible Exposure Limits (PELs):**

<table>
<thead>
<tr>
<th>Reagent</th>
<th>CAS #</th>
<th>OSHA PEL TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>100ppm</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-1</td>
<td>100ppm</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>1000ppm (2400mg/m3)</td>
</tr>
</tbody>
</table>

**ACGIH Threshold Limit Values (TLVs):**

<table>
<thead>
<tr>
<th>Reagent</th>
<th>CAS #</th>
<th>ACGIH PEL TLV</th>
<th>ACGIH STEL</th>
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<tbody>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>100ppm</td>
<td>150ppm</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-1</td>
<td>100ppm</td>
<td>125ppm</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-41-1</td>
<td>500ppm(1188mg/m3)</td>
<td>750ppm(1782 mg/m3)</td>
</tr>
</tbody>
</table>

**Engineering Controls:** Use in a well ventilated area to prevent exposure. Maintain eyewash fountain and quick-drench facilities in work areas.

**Personal Protective Measures:** Wear gloves, lab coat, eye protection and impervious footwear. Contact lenses should not be worn when working with this material.

**Special PPE Requirements:** If ventilation hood not available wear respirator.
9. Physical and Chemical Properties Section

Appearance: Colorless, Liquid
Molecular Weight: N/A
Molecular Formula: N/A
pH: N/A
Boiling Point and Boiling Range: N/A
Melting Point/Freezing Point: N/A
Flash Point: N/A
Specific Gravity/Relative Density: N/A
Odor: N/A
Odor Threshold: N/A
Color: Colorless
Flammability (solid/gas): Flammable liquid, emits flammable vapors
Vapor Density: N/A
Upper/Lower flammability or explosive limits: N/A
Vapor Pressure: N/A
Evaporation Rate: N/A
Partition Coefficient: n-octanol/water: N/A
Viscosity: N/A
Auto-ignition temperature: N/A
Solubility: Negligible in water
Decomposition Temperature: N/A

10. Stability and Reactivity

Reactivity: N/A
Chemical Stability: Stable
Conditions of Stability/Instability: Instable under heat
Stabilizers needed: None
Safety issue indicated by appearance change: N/A
Other: N/A
Hazardous Reactions: N/A
Hazardous Polymerization: Does not occur
Conditions to avoid: N/A
Classes of Incompatible Materials: Oxidizers, Strong Acids, Strong Bases
Hazardous Decomposition Products: Thermal-oxidation degradation can produce oxides of carbon. Toxic gases and vapors (i.e. Carbon monoxide and ketene) may be released in a fire.

11. Toxicological Information

Likely Routes of Exposure
   Eyes: Irritation.
   Skin: Irritation.
   Inhalation: Dizziness, headache, nausea, narcosis
   Ingestion: Nausea, blindness.

Signs or Symptoms of Exposure: Irritation eyes, skin, nose, mucous membrane; headache, dermatitis, narcosis, coma, dizziness, excitement, drowsiness, incoordination, staggering gait; corneal vacuolization; anorexia, nausea, vomiting, abdominal pain; dermatitis

Effects from short term exposure (delayed, immediate, chronic): Irritation to the eyes, nose, throat; headache, dizziness, nausea. Target organs: eyes, skin, respiratory system, central nervous system, gastrointestinal tract, blood, liver, kidneys
Acetone-Xylene Solution

**Acute Toxicity (Numerical Measures):**
- Acetone: LD50 (oral, rat)=5800mg/kg; LD50 (oral mouse)=3000 mg/kg; LC50 (rat)=20,702 ppm
- Xylene: LD50(oral,mouse)=2119 mg/kg; LC50(inhalation,mammal)=30 gm/m3 LC50(inhalation, rat)=5000 ppm/4HLD50(skin,rabbit)=>1700 mg/kg

**Carcinogenicity (NTP, IARC, OSHA):** Not classified as a carcinogen.

### 12. Ecological Information

**Ecotoxicity:**

Persistence and degradability:

Bioaccumulation Potential (octanol-water partition coefficient, BCF):

Mobility in the soil:

Adverse Environmental Effects:

### 13. Disposal Considerations

**Recommended Disposal Containers:** Check with your local waste authorities.

**Recommended Disposal Methods:** Do not dispose of in drains, check with your local waste authorities.

**Physical/Chemical Properties affecting Disposal:** See section 2 and section 9 applicable information.

**Special Precautions for Landfill and Incineration Activities:** Check with your local waste authorities.

**Waste Stream:** Consult your local or regional authorities.

### 14. Transport Information

**UN Number:** UN1993

**UN Proper Shipping Name:** Flammable Liquids, n.o.s., (Xylene, Acetone)

**Transport Hazard Class(es):** 3

**Packing Group Number:** II

**Environmental Hazards (IMDG code):**
- Marine Pollutant: No

**Transport in Bulk (IBC Code):** N/A

**Special Transport Precautions:** N/A

### 15. Regulatory Information

**OSHA:**

**DOT:**

**EPA:**

**CPSC:**
**16. Other Information**

**Revision Date:** 03/16/2015

**NFPA**

<table>
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<tbody>
<tr>
<td>Health</td>
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</tr>
<tr>
<td>Fire Hazard</td>
<td>3</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Specific Hazard</td>
<td></td>
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**National Fire Protection Association (USA) NFPA**

- **Fire Hazard:** 3
- **Health:** 2
- **Reactivity:** 0
- **Specific Hazard:**

**HMIS**

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**Hazardous Material Information System HMIS**

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