MATERIAL SAFETY DATA SHEET (MSDS)

1. Manufacturer
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   Date Prepared: March, 13, 2002

2. Product Information
   Product Code No.:
   Product Name: aquaSAVE-57xs

3. Hazardous Ingredients / Identity Information
   Component and Concentration of Hazardous Substance

<table>
<thead>
<tr>
<th>No.</th>
<th>Components Name</th>
<th>Qt.(%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td>Poly(aniline sulfonic acid)</td>
<td>0~5</td>
</tr>
<tr>
<td>2)</td>
<td>Isopropyl alcohol</td>
<td>5~10</td>
</tr>
<tr>
<td>3)</td>
<td>Water</td>
<td>90~95</td>
</tr>
<tr>
<td>4)</td>
<td>Surfactants</td>
<td>0~5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
<th>CAS No.</th>
<th>C.C</th>
<th>ACGIH-TLV</th>
<th>IARC</th>
<th>LD50</th>
<th>Other Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td>Registered</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>&gt;2000</td>
<td>mouth*1</td>
</tr>
<tr>
<td>2)</td>
<td>67-63-0</td>
<td>—</td>
<td>400ppm</td>
<td>3</td>
<td>5045</td>
<td>mouth*2</td>
</tr>
<tr>
<td>3)</td>
<td>7732-18-5</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>4)</td>
<td>Registered</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

* Sign
   C.C: Control Criteria
   ACGIH: American Conference of Governmental Industrial Hygienists
   IARC: International Agency for Research on Cancer
   LD50: mouth*1 (mouse), mouth*2 (rat)
3.1 Additional Component Toxicity Information
Not Available

3.2 Product Toxicity Information
Not Available

4. Hazardous Substance
   Classification:
   - Non-flammable liquid
   Comments on Hazard:
   - Noncombustible.
   - Toxic by inhalation, in contact with skin and if swallowed
   - Irritating to eyes and skin

5. First Aid Measures
5.1 Eye Contact
   - Gently rinse the affected eyes, including under the eyelids, with clean water for at least 15 minutes. Remove contact lenses if easily possible.
   - Remove all chemicals from contact with the victim’s eyes as quickly as possible.
     A delay of only seconds may increase the injury.
   - And refer for medical attention, showing MSDS.

5.2 Skin Contact
   - Remove all contaminated clothing, shoes and socks from the affected areas as quickly as possible, cutting them off if necessary.
   - Remove all chemicals from contact with the victim’s skin as quickly as possible.
     A delay of only seconds may increase the injury.
     If irritation persists, arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible

5.3 Inhalation
   - Remove the victim from the contamination immediately to fresh air.
   - Keep the victim warm and quiet.
   - If breathing is weak, irregular or has stopped, open his airway, loosen his collar and belt and administer artificial respiration.
   - Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

5.4 Ingestion
   - Do not induce vomiting
   - Rinse mouth with water.
   - Do not make an unconscious person vomit
Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

6. Fire Fighting Measures
   Specific hazards with regard to fire-fighting measure
   - During a fire, irritating and highly toxic gases may be generated by thermal decomposition. (SO2)
   Extinguishing media
   - Dry chemical powder, foam or carbon dioxide.

7. Accidental release measures
   - Evacuate non essential personnel.
   - Ventilate area after material pick up is complete.
   - Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container with covers for disposal.
   - Remove leaking containers to a safe place, if feasible.
   - Wear proper protective equipment.
   - Prevent spills from entering sewers, watercourses or low areas.
   - Do not wash away into shower or waterway.

8. Handling
   - Use only in the well-ventilated area.
   - Do not breathe gases, vapor, spray.
   - Avoid contact with skin or eyes.
   - When using do not eat or drink.
   - Protect against physical damage.
   - Avoid rough handling or slide across sharp objects.

9. Storage
   - Store in a cool, dry, well-ventilated location.
   - Keep container tightly closed.
   - Avoid long storage periods since the product degrades with age.

10. Exposure Controls and Personal Protection
10.1 Control parameters
   ACGIH TLV — OSHA PEL —
10.2 Engineering measure
   - Use with local exhaust ventilation.
10.3 Personal Protective equipment
   Eye:
       ・ Wear protective eyeglasses or chemical safety goggles.
   Skin:
       ・ Wear gloves impervious to organic solvent and chemical.
   Respiration and Ventilation:
       ・ Wear gas mask for organic gas.
   Others:

11. Physical and Chemical Properties
   Appearance: liquid
   Color: Dark brown
   Odor: Slightly organic solvent odor
   Boiling point: 100°C (Water)
   Vapor Pressure: —
   Density: No data

12. Fire and Explosion Hazard Information
   Inflammability and Explosion
       Flash Point: Not applicable
       Ignition Point: Not applicable
       Explosion Limit: Not applicable
   12.1 Reactivity and Stability
       Condition (Temperature, Light, etc.)
       ・ Does not react under normal conditions.

12.2 Hazardous Reaction
       Not Available

12.3 Product Decomposition / Dangerous Substance Generation
       ・ Emits hazardous gases of SO2, etc. by combustion.

12.4 Other Reactivity Information
       ・ Does not react under normal conditions.

12.5 Additional Information
       Not Available

13. Environmental Protection Information
• Take precautions in the case of leak, spill or disposal, because of having influence on the environment.

14. Disposal Consideration
• This combustible material may be burned in a chemical incinerator equipped with an after-burner and scrubber
• Do not dump into sewers, on the ground or into any body of water.

15. Transportation Information
• Follow all regulations in your country.

16. Regulatory Information
• Ensure this materials in compliance with federal requirements and ensure conformity to local regulations.

17. Other Information
• The information herein is given in good faith, but no warranty, express or implied, is made.
  please consult the MITSUBISHI RAYON CO., LTD. for further information.