

# MATERIAL SAFETY DATA SHEET (MSDS)

## 1. Manufacturer

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## 2. Product Information

Product Code No.:  
 Product Name: aquaSAVE-53za

## 3. Hazardous Ingredients / Identity Information

### Component and Concentration of Hazardous Substance

No.	Components Name	Qt.(%)
1)	Poly(aniline sulfonic acid)	0~ 5
2)	Isopropyl alcohol	5~10
3)	Water	85~90
4)	Surfactants	0~ 5

No.	CAS No.	C.C	ACGIH-TLV	IARC	LD50 (mg/kg)	Other Hazards
1)	Registered	—	—	—	>2000 mouth*1	—
2)	67-63-0	—	400ppm	3	5045 mouth*2	—
3)	7732-18-5	—	—	—	—	—
4)	Registered	—	—	—	360 mouth*1	—

#### \* 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

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## 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

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## 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.

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## 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.(SO<sub>2</sub>)

Extinguishing media

- Dry chemical powder, foam or carbon dioxide.

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## 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.

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## 8. Handling

- Use only in the well-ventilated area.
- Do not breathe gases, vapour, 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.

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## 9. Storage

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

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## 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:

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### 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

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### 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 SO<sub>2</sub>, etc. by combustion.

#### 12.4 Other Reactivity Information

- Does not react under normal conditions.

#### 12.5 Additional Information

Not Available

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### 13. Environmental Protection Information

- Take precautions in the case of leak, spill or disposal, because of having influence on the environment.

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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.

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15. Transportation Information

- Follow all regulations in your country.

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16. Regulatory Information

- Ensure this materials in compliance with federal requirements and ensure conformity to local regulations.

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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.

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