Poly(styrenesulfonic acid), 30% soln. in water

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/28/2017 Revision date: 06/29/2017 Supersedes: 06/28/2017 Version: 1.3

SECTION 1: Identification

1.1. Identification

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixtures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>Poly(styrenesulfonic acid), 30% soln. in water</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>28210-41-5</td>
</tr>
<tr>
<td>Product code</td>
<td>08770</td>
</tr>
<tr>
<td>Synonyms</td>
<td>Benzenesulfonic acid, 4-ethenyl-, homopolymer / p-Styrenesulfonic acid homopolymer</td>
</tr>
</tbody>
</table>

1.2. Recommended use and restrictions on use

Recommended use: Manufacture of substances, Use as laboratory reagent, Scientific research and development

1.3. Supplier

Supplier
Polysciences Inc
400 Valley Road
Warrington, PA 18976 - United States
T (215)-343-6484 - F (215)-343-0214
info@polysciences.com - www.polysciences.com

1.4. Emergency telephone number

Emergency number: (215)-378-4526

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification
Skin corrosion/irritation, Category 1B
Serious eye damage/eye irritation, Category 1

Full text of H statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS-US): |

Signal word (GHS-US): Danger
Hazard statements (GHS-US):
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage

Precautionary statements (GHS-US):
P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P264 - Wash hands, forearms and face thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P336 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a poison center/doctor/…
P363 - Wash contaminated clothing before reuse
P405 - Store locked up
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available
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2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS-No.) 7732-18-5</td>
<td>70 - 80</td>
<td>Not classified</td>
</tr>
<tr>
<td>Benzenesulfonic acid, 4-ethenyl-, homopolymer</td>
<td>(CAS-No.) 28210-41-5</td>
<td>20 - 30</td>
<td>Skin Corr. 1B, H314, Eye Dam. 1, H318</td>
</tr>
<tr>
<td>Sulfuric acid</td>
<td>(CAS-No.) 7684-93-9</td>
<td>1 - 5</td>
<td>Skin Corr. 1A, H314, Carc. 1A, H350</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Seek medical attention immediately. Call a physician immediately.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Be careful, the product may remain trapped under clothing, footwear or a wrist-watch. Rinse skin with water/shower. Get immediate medical advice/attention.
First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. Continue to rinse during transport of patient.
First-aid measures after ingestion : Rinse mouth out with water. Do NOT induce vomiting. Drink plenty of water. Get immediate medical advice/attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Causes severe skin burns and eye damage.
Symptoms/effects after skin contact : Burns.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : Burns.

4.3. Immediate medical attention and special treatment, if necessary
Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media


5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Absorb spillage to prevent material damage. Clean up any spills as soon as possible, using an absorbent material to collect it. May be harmful to aquatic organisms, to flora, to soil organisms. May have damaging effect on ozone layer. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Avoid contact with skin, eyes and clothing. Do not breathe dust/fume/gas/mist/vapours/spray.
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6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Contain large spillage with sand or earth. Do not touch or walk on the spilled product.

Methods for cleaning up: Take up liquid spill into absorbent material. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Absorb spilled material with sand or earth.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: May be corrosive to metals.

Precautions for safe handling: Ensure good ventilation of the work station. Avoid contact with skin, eyes and clothing. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities


Storage area: Store in a well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>IDLH</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(styrenesulfonic acid), 30% soln. in water (28210-41-5)</td>
<td>ACGIH TWA (mg/m³) 0.2 mg/m³ (thoracic particulate matter)</td>
<td>OSHA PEL (TWA) (mg/m³) 1 mg/m³</td>
<td>US IDLH (mg/m³) 15 mg/m³</td>
<td>NIOSH REL (TWA) (mg/m³) 1 mg/m³</td>
</tr>
<tr>
<td>Water (7732-18-5)</td>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulfuric acid (7664-93-9)</td>
<td>ACGIH TWA (mg/m³) 0.2 mg/m³ (thoracic particulate matter)</td>
<td>OSHA PEL (TWA) (mg/m³) 1 mg/m³</td>
<td>US IDLH (mg/m³) 15 mg/m³</td>
<td>NIOSH REL (TWA) (mg/m³) 1 mg/m³</td>
</tr>
<tr>
<td>Benzenesulfonic acid, 4-ethenyl-, homopolymer (28210-41-5)</td>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
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Nitrile rubber gloves

**Eye protection:**
Chemical goggles or face shield. Safety glasses

**Skin and body protection:**
Wear suitable protective clothing

**Respiratory protection:**
In case of insufficient ventilation, wear suitable respiratory equipment

### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>amber</td>
</tr>
<tr>
<td>Odour</td>
<td>Pungent</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### SECTION 10: Stability and reactivity

**10.1. Reactivity**
The product is non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability**
Stable under normal conditions.

**10.3. Possibility of hazardous reactions**
No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid**
None under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials**
No additional information available

**10.6. Hazardous decomposition products**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity**  
Not classified

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD50 oral rat</th>
<th>LC50 inhalation rat (mg/l)</th>
<th>ATE US (oral)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water (7732-18-5)</td>
<td>&gt; 90 ml/kg</td>
<td>510 mg/m³ (Exposure time: 2 h)</td>
<td>2140.000 mg/kg bodyweight</td>
</tr>
<tr>
<td>Sulfuric acid (7664-93-9)</td>
<td>2140 mg/kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**  
Causes severe skin burns and eye damage.

**Serious eye damage/irritation**  
Causes serious eye damage.

**Respiratory or skin sensitisation**  
Not classified

**Germ cell mutagenicity**  
Not classified

**Carcinogenicity**  
Not classified

**Sulfuric acid (7664-93-9)**

<table>
<thead>
<tr>
<th>IARC group</th>
<th>In OSHA Hazard Communication Carcinogen list</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - Carcinogenic to humans</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Reproductive toxicity**  
Not classified

**Specific target organ toxicity (single exposure)**  
Not classified

**Specific target organ toxicity (repeated exposure)**  
Not classified

**Aspiration hazard**  
Not classified

**Symptoms/effects after skin contact**  
Burns.

**Symptoms/effects after eye contact**  
Serious damage to eyes.

**Symptoms/effects after ingestion**  
Burns.

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Ecology - general**  
Before neutralisation, the product may represent a danger to aquatic organisms.

**Sulfuric acid (7664-93-9)**

| LC50 fish 1 | > 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) |

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

**Sulfuric acid (7664-93-9)**

| BCF fish 1 | (no bioaccumulation) |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

**Effect on the global warming**  
No known effects from this product.

**GWPmix comment**  
No known effects from this product.
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SECTION 13: Disposal considerations
13.1. Disposal methods
Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT
Transport document description: UN2584 Aryl sulfonic acids, liquid, 8, II
UN-No.(DOT): UN2584
Proper Shipping Name (DOT): Aryl sulfonic acids, liquid
Class (DOT): 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT): II - Medium Danger
Hazard labels (DOT): 8 - Corrosive

DOT Packaging Non Bulk (49 CFR 173.xxx): 202
DOT Packaging Bulk (49 CFR 173.xxx): 242
IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 °C (1.1 bar at 122 F), or 130 kPa at 55 °C (1.3 bar at 131 F) are authorized.
T8 - 4 178.274(d)(2) Normal............. Prohibited
TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image)
Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 °C (59 F) and 50 °C (122 F), respectively.
TP12 - This material is considered highly corrosive to steel.
TP13 - Self-contained breathing apparatus must be provided when this hazardous material is transported by sea.

Emergency Response Guide (ERG) Number: 153
Other information: No supplementary information available.

Transportation of Dangerous Goods
Not applicable

Transport by sea
Transport document description (IMDG): UN 2584 ARYLSULPHONIC ACIDS, LIQUID, 8, II
UN-No. (IMDG): 2584
Proper Shipping Name (IMDG): ARYLSULPHONIC ACIDS, LIQUID
Class (IMDG): 8 - Corrosive substances
Packing group (IMDG): II - substances presenting medium danger
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**Limited quantities (IMDG)**: 1 L

### Air transport

- **Transport document description (IATA)**: UN 2584 Arylsulphonic acids, liquid, 8, II
- **UN-No. (IATA)**: 2584
- **Proper Shipping Name (IATA)**: Arylsulphonic acids, liquid
- **Class (IATA)**: 8 - Corrosives
- **Packing group (IATA)**: II - Medium Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

<table>
<thead>
<tr>
<th>Substance</th>
<th>Description</th>
<th>Inventory</th>
<th>Reporting Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water (7732-18-5)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulfuric acid (7664-93-9)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory &lt;br&gt; Listed on the United States SARA Section 302</td>
<td>Subject to reporting requirements of United States SARA Section 313</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CERCLA RQ</td>
<td>1000 lb</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Section 302 EPCRA Reportable Quantity (RQ)</td>
<td>1000 lb</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SARA Section 302 Threshold Planning Quantity (TPQ)</td>
<td>1000 lb</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SARA Section 313 - Emission Reporting</td>
<td>1 % (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)</td>
<td></td>
</tr>
<tr>
<td>Benzenesulfonic acid, 4-ethenyl-, homopolymer (28210-41-5)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td></td>
<td>EPA TSCA Regulatory Flag</td>
</tr>
</tbody>
</table>

### 15.2. International regulations

#### CANADA

<table>
<thead>
<tr>
<th>Substance</th>
<th>Description</th>
<th>Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water (7732-18-5)</td>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
<td></td>
</tr>
<tr>
<td>Sulfuric acid (7664-93-9)</td>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
<td></td>
</tr>
<tr>
<td>Benzenesulfonic acid, 4-ethenyl-, homopolymer (28210-41-5)</td>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
<td></td>
</tr>
</tbody>
</table>

#### EU-Regulations

<table>
<thead>
<tr>
<th>Substance</th>
<th>Description</th>
<th>Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water (7732-18-5)</td>
<td>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</td>
<td></td>
</tr>
<tr>
<td>Sulfuric acid (7664-93-9)</td>
<td>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</td>
<td></td>
</tr>
</tbody>
</table>

#### National regulations

<table>
<thead>
<tr>
<th>Substance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water (7732-18-5)</td>
<td>Listed on the AICS (Australian Inventory of Chemical Substances) &lt;br&gt; Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) &lt;br&gt; Listed on the Korean ECL (Existing Chemicals List) &lt;br&gt; Listed on NZIoC (New Zealand Inventory of Chemicals) &lt;br&gt; Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) &lt;br&gt; Listed on INSQ (Mexican National Inventory of Chemical Substances) &lt;br&gt; Listed on the TCSI (Taiwan Chemical Substance Inventory)</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Sulfuric acid (7664-93-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on IARC (International Agency for Research on Cancer)</td>
</tr>
<tr>
<td>Listed on the AICS (Australian Inventory of Chemical Substances)</td>
</tr>
<tr>
<td>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)</td>
</tr>
<tr>
<td>Listed on the Japanese ENCS (Existing &amp; New Chemical Substances) inventory</td>
</tr>
<tr>
<td>Listed on the Japanese ISHL (Industrial Safety and Health Law)</td>
</tr>
<tr>
<td>Listed on the Korean ECL (Existing Chemicals List)</td>
</tr>
<tr>
<td>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)</td>
</tr>
<tr>
<td>Japanese Poisonous and Deleterious Substances Control Law</td>
</tr>
<tr>
<td>Listed on the Canadian IDL (Ingredient Disclosure List)</td>
</tr>
<tr>
<td>Listed on INSQ (Mexican National Inventory of Chemical Substances)</td>
</tr>
<tr>
<td>Listed on Turkish inventory of chemical</td>
</tr>
<tr>
<td>Listed on the TCSI (Taiwan Chemical Substance Inventory)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Benzenesulfonic acid, 4-ethenyl-, homopolymer (28210-41-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the AICS (Australian Inventory of Chemical Substances)</td>
</tr>
<tr>
<td>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)</td>
</tr>
<tr>
<td>Listed on NZIoC (New Zealand Inventory of Chemicals)</td>
</tr>
<tr>
<td>Listed on the TCSI (Taiwan Chemical Substance Inventory)</td>
</tr>
</tbody>
</table>

15.3. US State regulations

<table>
<thead>
<tr>
<th>Sulfuric acid (7664-93-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - Massachusetts - Right To Know List</td>
</tr>
<tr>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</td>
</tr>
<tr>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
</tbody>
</table>

SECTION 16: Other information

Revision date : 06/29/2017

Full text of H-statements:

| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |
| H350 | May cause cancer |

SDS US Polysciences

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.