Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Common Name/Trade Name</th>
<th>Carbomer 672, 690, 910, 934, 934P, 940, 941</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>SPECTRUM LABORATORY PRODUCTS INC.</td>
</tr>
<tr>
<td></td>
<td>14422 S. SAN PEDRO STREET</td>
</tr>
<tr>
<td></td>
<td>GARDENA, CA 90248</td>
</tr>
<tr>
<td>Commercial Name(s)</td>
<td>Carbopol 910, 934, 934P, 940, 941</td>
</tr>
</tbody>
</table>

Synonym
Acrylic acid polymer; Poly(acrylic acid); 2-Propanoic acid homopolymer; Acrylaid acid polymer cross-linked with allyl ethers of pentaerythritol and/or sucrose; Carboxypolyethylene; Acrylic acid homopolymer; Acrylic acid resin; Acrysol; Anatriplex; Arasorb; Aron; Aron; Carboxy vinyl polymer; Carpolene; Polymer, carboxy vinyl; Polyacrylate elastomers; Trecpol

Chemical Name
Acrylic acid, polymers

Chemical Family
Polymer.

Chemical Formula
POLYMER (C3-H4-O2)x

Supplier
SPECTRUM LABORATORY PRODUCTS INC.
14422 S. SAN PEDRO STREET
GARDENA, CA 90248

Catalog Number(s)
XX205, C1148, C1149, C1182, C1183, C1184, C1186, C1477, C1478, CA184, CA251

CAS#
9003-01-4

RTECS
FF3189000

TSCA
TSCA 8(b) Inventory:
Carbomer 672, 690, 910, 934, 934P, 940, 941

CIF
Not applicable.

IN CASE OF EMERGENCY
CHEMTREC (24hr) 800-424-9300

CALL (310) 516-8000

Section 2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>TWA (mg/m³)</th>
<th>STEL (mg/m³)</th>
<th>CEIL (mg/m³)</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Carbomer 910, 934, 934P, 940, 941</td>
<td>9003-01-4</td>
<td></td>
<td></td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

Toxicological Data on Ingredients
Not applicable.

Continued on Next Page
### Section 3. Hazards Identification

**Potential Acute Health Effects**
Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects**
- CARCINOGENIC EFFECTS: 3 (Not classifiable for human) by IARC.
- MUTAGENIC EFFECTS: Not available.
- TERATOGENIC EFFECTS: Not available.
- DEVELOPMENTAL TOXICITY: Not available.
- The substance may be toxic to upper respiratory tract, skin, eyes.
- Repeated or prolonged exposure to the substance can produce target organs damage.

### Section 4. First Aid Measures

**Eye Contact**
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

**Skin Contact**
Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

**Serious Skin Contact**
Not available.

**Inhalation**
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation**
Not available.

**Ingestion**
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

**Serious Ingestion**
Not available.

### Section 5. Fire and Explosion Data

**Flammability of the Product**
May be combustible at high temperature.

**Auto-Ignition Temperature**
520°C (968°F)

**Flash Points**
Not available.

**Flammable Limits**
Not available.

**Products of Combustion**
These products are carbon oxides (CO, CO2), phosphates.

**Fire Hazards in Presence of Various Substances**
Slightly flammable to flammable in presence of heat.

**Explosion Hazards in Presence of Various Substances**
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions**
- SMALL FIRE: Use DRY chemical powder.
- LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards**
As with most organic solids, fire is possible at elevated temperatures. Material in powder form, capable of creating a dust explosion.

**Special Remarks on Explosion Hazards**
Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Section 6. Accidental Release Measures

Small Spill
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evaporate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7. Handling and Storage

Precautions
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label.

Storage
Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection
Safety glasses. Lab coat. Dust respirator is not normally required. Use a dust respirator if ventilation is not adequate and if handling of material (particularly in large quantities) creates visible dust clouds. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

Exposure Limits
Not available.

Section 9. Physical and Chemical Properties

Physical state and appearance
Solid. (Powdered solid.)
Odor
Acetic acid. (Slight.)
Taste
Not available.
Color
White.

Molecular Weight
Not available.

pH (1% soln/water)
2.5 - 3.0 [Acidic.]

Boiling Point
Not available.

Melting Point
Not available.

Critical Temperature
Not available.

Specific Gravity
1.4 (Water = 1)

Vapor Pressure
Not applicable.

Vapor Density
Not available.

Volatile
Not available.

Odor Threshold
Not available.

Water/Oil Dist. Coeff.
Not available.

Ionity (in Water)
Not available.

Dispersion Properties
Suspended solids in water.

Solubility
Easily soluble in cold water, hot water.

Continued on Next Page
### Section 10. Stability and Reactivity Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>Instability Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Conditions of Instability</td>
<td>Excess heat, incompatible materials, dust generation.</td>
</tr>
<tr>
<td>Incompatibility with various substances</td>
<td>Reactive with alkalis.</td>
</tr>
<tr>
<td>Corrosivity</td>
<td>Non-corrosive in presence of glass.</td>
</tr>
<tr>
<td>Special Remarks on Reactivity</td>
<td>Heat may be generated if polymer comes in contact with strong basic materials such as ammonia, sodium hydroxide, potassium hydroxide or strongly basic amines.</td>
</tr>
<tr>
<td>Special Remarks on Corrosivity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Polymerization</td>
<td>Will not occur.</td>
</tr>
</tbody>
</table>

### Section 11. Toxicological Information

<table>
<thead>
<tr>
<th>Route of Entry</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermal contact</td>
<td>Inhalation. Ingestion. Ingestion.</td>
</tr>
<tr>
<td>Toxicity to Animals</td>
<td>Acute oral toxicity (LD50): 2000 mg/kg [Guinea pig].</td>
</tr>
<tr>
<td>Chronic Effects on Humans</td>
<td>CARCINOGENIC EFFECTS: 3 (Not classifiable for humans.) by IARC. May cause damage to the following organs: upper respiratory tract, skin, eyes.</td>
</tr>
<tr>
<td>Other Toxic Effects on Humans</td>
<td>Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.</td>
</tr>
<tr>
<td>Special Remarks on Toxicity to Animals</td>
<td>Not available.</td>
</tr>
<tr>
<td>Special Remarks on Chronic Effects on Humans</td>
<td>Not available.</td>
</tr>
<tr>
<td>Special Remarks on other Toxic Effects on Humans</td>
<td>Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: Dust may cause irritation by mechanical action, not by chemical effect. Inhalation: Inhalation of dust may cause irritation by mechanical action, not by chemical effect. Symptoms may include coughing, mucous production, and shortness of breath. Ingestion: Low hazard. Chronic Potential Health Effects: Skin: Prolonged or repeated skin contact may cause dermatitis. Medical Conditions Aggravated by Exposure: Pre-existing respiratory diseases; pre-existing skin problems.</td>
</tr>
</tbody>
</table>

### Section 12. Ecological Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecotoxicity</td>
<td>Ecotoxicity in water (LC50): 580 - 2000 mg/I 96 hours [Fish (Bluegill, Sunfish)]; 168 - 260 mg/I 96 hours [Daphnia (daphnia)].</td>
</tr>
<tr>
<td>BOD5 and COD</td>
<td>Not available.</td>
</tr>
<tr>
<td>Products of Biodegradation</td>
<td>Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.</td>
</tr>
<tr>
<td>Toxicity of the Products of Biodegradation</td>
<td>The product itself and its products of degradation are not toxic.</td>
</tr>
<tr>
<td>Special Remarks on the Products of Biodegradation</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

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### Section 13. Disposal Considerations

**Waste Disposal**
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### Section 14. Transport Information

<table>
<thead>
<tr>
<th>DOT Classification</th>
<th>Not a DOT controlled material (United States).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identification</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Special Provisions for Transport</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>DOT (Pictograms)</td>
<td>![Pictogram Image]</td>
</tr>
</tbody>
</table>

### Section 15. Other Regulatory Information and Pictograms

**Federal and State Regulations**
TSCA 8(b) inventory: Carbomer 672, 690, 910, 934, 934P, 940, 941

**California Proposition 65**

<table>
<thead>
<tr>
<th>California Proposition 65 Warnings</th>
</tr>
</thead>
<tbody>
<tr>
<td>California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.</td>
</tr>
<tr>
<td>California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.</td>
</tr>
</tbody>
</table>

**Other Regulations**
Canada: Listed on Canadian Domestic Substance List (DSL).
China: Listed on National Inventory.
Japan: Listed on National Inventory (ENCS).
Korea: Listed on National Inventory (KECI).
Philippines: Listed on National Inventory (PICCS).
Australia: Listed on AICS.

**Other Classifications**

| WHMIS (Canada) | Not controlled under WHMIS (Canada). |
| DSCL (EEC)     | This product is not classified according to the EU regulations. |

**HIMIS (U.S.A.)**

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**WHMIS (Canada) (Pictograms)**

**DSCL (Europe) (Pictograms)**

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Continued on Next Page
Section 16. Other Information

MSDS Code C3608

References Not available.

Other Special Considerations Uses: Thickening agent and emulsifiers in printing and in pharmaceuticals


CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be 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 technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.