**Material Safety Data Sheet**

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**Section 1. Chemical Product and Company Identification**

<table>
<thead>
<tr>
<th>Common Name/Trade Name</th>
<th>Sodium Chloride Solution, 0.9%, sterile</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>Catalog Number(s)</td>
<td>S1941</td>
</tr>
<tr>
<td>CAS#</td>
<td>Mixture.</td>
</tr>
<tr>
<td>RTECS</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>TSCA</td>
<td>TSCA 8(b) inventory: Sodium chloride;</td>
</tr>
<tr>
<td></td>
<td>Water</td>
</tr>
<tr>
<td>CI#</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

**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) Water</td>
<td>7732-18-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2) Sodium chloride</td>
<td>7647-14-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Toxicological Data on Ingredients**

**Sodium chloride:**
- **ORAL (LD50):** Acute: 3000 mg/kg [Rat]. 4000 mg/kg [Mouse].
- **DERMAL (LD50):** Acute: >10000 mg/kg [Rabbit].
- **DUST (LC50):** Acute: >42000 mg/m³ 1 hours [Rat].

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**Section 3. Hazards Identification**

**Potential Acute Health Effects**
Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, . Non-corrosive for skin. Non-corrosive to the eyes. Non-corrosive for lungs.

**Potential Chronic Health Effects**

- **CARCINOGENIC EFFECTS:** Not available.
- **MUTAGENIC EFFECTS:** Mutagenic for mammalian somatic cells. [Sodium chloride]. Mutagenic for bacteria and/or yeast. [Sodium chloride].
- **TERATOGENIC EFFECTS:** Not available.
- **DEVELOPMENTAL TOXICITY:** Not available.

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**Continued on Next Page**
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. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

### Serious Ingestion
Not available.

Section 5. Fire and Explosion Data

### Flammability of the Product
Non-flammable.

### Auto-Ignition Temperature
Not applicable.

### Flash Points
Not applicable.

### Flammable Limits
Not applicable.

### Products of Combustion
Not available.

### Fire Hazards in Presence of Various Substances
Not applicable.

### Explosion Hazards in Presence of Various Substances
Non-explosive in presence of open flames and sparks, of shocks.

### Fire Fighting Media and Instructions
Not applicable.

### Special Remarks on Fire Hazards
Not available.

### Special Remarks on Explosion Hazards
Not available

Section 6. Accidental Release Measures

### Small Spill
Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### Large Spill
Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

### Precautions
Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible.

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

Continued on Next Page
Section 8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Engineering Controls</th>
<th>Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal Protection</td>
<td>Safety glasses. Lab coat. Gloves (impervious).</td>
</tr>
<tr>
<td>Exposure Limits</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical state and appearance</th>
<th>Liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular Weight</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>pH (1% soln/water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Color</td>
<td>Clear Colorless.</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>The lowest known value is 100°C (212°F) (Water).</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Critical Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>The only known value is 1 (Water = 1) (Water).</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>The highest known value is 2.3 kPa (@ 20°C) (Water).</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>The highest known value is 0.62 (Air = 1) (Water).</td>
</tr>
<tr>
<td>Volatility</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available.</td>
</tr>
<tr>
<td>Taste</td>
<td>Not available.</td>
</tr>
<tr>
<td>Ionicity (in Water)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Dispersion Properties</td>
<td>See solubility in water.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Easily soluble in cold water, hot water.</td>
</tr>
</tbody>
</table>

Section 10. Stability and Reactivity Data

| Stability                       | The product is stable.                                                |
| Instability Temperature         | Not available.                                                        |
| Conditions of Instability       | Not available                                                        |
| Incompatibility with various substances | Not available.                    |
| Corrosivity                     | Not considered to be corrosive for metals and glass.                  |
| Odor                            | Not available.                                                        |
| Taste                           | Not available.                                                        |
| Special Remarks on Reactivity   | Not available.                                                        |
| Special Remarks on Corrosivity  | Not available.                                                        |
| Polymerization                  | Will not occur.                                                       |

Continued on Next Page
**Section 11. Toxicological Information**

**Routes of Entry**
- Skin Contact. Eye contact.

**Toxicity to Animals**
- LD50: Not available.
- LC50: Not available.

**Chronic Effects on Humans**
- MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. [Sodium chloride]. Mutagenic for bacteria and/or yeast. [Sodium chloride].

**Other Toxic Effects on Humans**
- Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals**
- Lowest Published Lethal Dose (LDL) [Man] - Route: Oral; Dose: 1000 mg/kg  
  
**Special Remarks on Chronic Effects on Humans**
- High intake of sodium chloride, whether from occupational exposure or in the diet, may increase risk of TOXEMIA OF PREGNANCY in susceptible women (Bishop, 1978).  
  Causes adverse reproductive effects in humans (fetotoxicity, abortion, ) by intraplacental or intrauterine routes, but this route of administration is not relevant to occupational exposures.  
  Prolonged or repeated very large doses by oral, intraperitoneal, intraplacental, intrauterine, parenteral, and subcutaneous routes may cause adverse reproductive effects and birth defects (fetotoxicity, abortion, musculoskeletal abnormalities, and maternal effects (effects on ovaries, fallopian tubes) based on animals studies. While sodium chloride has been used as a negative control n some reproductive studies, it has also been used as an example that almost any chemical can cause birth defects in experimental animals if studied under the right conditions (Nishimura & Miyamoto, 1969).  
  May affect genetic material (mutagenic).  

**Special Remarks on Other Toxic Effects on Humans**
- Acute Potential Health Effects:  
  Skin: May cause skin irritation.  
  Eyes: May cause eye irritation.  
  Ingestion: Ingestion of large quantities may irritate the stomach and cause abdominal pain, nausea, vomiting, diarrhea, and increased thirst. It may also affect behavior (muscle spasticity/contraction, somnolence, irritability, headache, irritability, weakness, convulsions/seizures), metabolism (changes in sodium level), urinary system, and cardiovascular system.  
  Inhalation: Inhalation of mist or may cause respiratory tract irritation.

**Section 12. Ecological Information**

**Ecotoxicity**
- Not available.

**BOD5 and COD**
- Not available.

**Products of Biodegradation**
- Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation**
- The product itself and its products of degradation are not toxic.

**Special Remarks on the Products of Biodegradation**
- Not available.

**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**

**DOT Classification**
- Not a DOT controlled material (United States).

**Identification**
- Not applicable.

**Special Provisions for Transport**
- Not applicable.
### DOT (Pictograms)

![DOT (Pictograms)](image)

### Section 15. Other Regulatory Information and Pictograms

#### Federal and State Regulations
- TSCA 8(b) inventory: Sodium chloride; Water

#### California Proposition 65 Warnings
- 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.
- 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.

#### Other Regulations
- Not available.

#### Other Classifications
- **WHMIS (Canada)**: Not controlled under WHMIS (Canada).
- **DSCL (EEC)**: This product is not classified according to the EU regulations. Not applicable.

#### HMIS (U.S.A.)
- **Health Hazard**: 1
- **Fire Hazard**: 0
- **Reactivity**: 0
- **Personal Protection**: B

#### WHMIS (Canada) (Pictograms)
![WHMIS (Canada) (Pictograms)](image)

#### DSCL (Europe) (Pictograms)
![DSCL (Europe) (Pictograms)](image)

#### TDG (Canada) (Pictograms)
![TDG (Canada) (Pictograms)](image)

#### ADR (Europe) (Pictograms)
![ADR (Europe) (Pictograms)](image)

#### Protective Equipment
- Gloves (impervious).
- Lab coat.
- Not applicable.
- Safety glasses.
Section 16. Other Information

<table>
<thead>
<tr>
<th>MSDS Code</th>
<th>S0051</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>References</th>
<th>Not available.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Other Special Considerations</th>
<th>Not available.</th>
</tr>
</thead>
</table>

Validated by Sonia Owen on 1/13/2012.

Verified by Sonia Owen.

Printed 1/13/2012.

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.