Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Common Name/Trade Name</th>
<th>Diethylenetriaminepentaacetic acid, pentasodium salt, 41%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248</td>
</tr>
<tr>
<td>Catalog Number(s)</td>
<td>D1156</td>
</tr>
<tr>
<td>CAS#</td>
<td>140-01-2</td>
</tr>
<tr>
<td>RTECS</td>
<td>ZC0110000</td>
</tr>
<tr>
<td>TSCA</td>
<td>TSCA 8(b) inventory: Water</td>
</tr>
<tr>
<td>CI#</td>
<td>Not available.</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) Diethylenetriaminepentaacetic acid,</td>
<td>140-01-2</td>
<td>41</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pentasodium salt</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2) Water</td>
<td>7732-18-5</td>
<td>59</td>
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<td></td>
<td></td>
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</tbody>
</table>

Toxicological Data on Ingredients

| Diethylenetriaminepentaacetic acid,       | ORAL (LD50): 36000 mg/kg [Rat]. |
| pentasodium salt                         |                                  |

Section 3. Hazards Identification

Potential Acute Health Effects
Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant). Slightly hazardous in case of skin contact (permeator). Non-corrosive for skin. Non-sensitizer for skin.

Potential Chronic Health Effects
### Section 4. First Aid Measures

| Eye Contact                                | Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention. |
| Skin Contact                               | After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. |
| Serious Skin Contact                       | Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention. |
| Inhalation                                 | Allow the victim to rest in a well ventilated area. Seek immediate medical attention. |
| Serious Inhalation                         | Not available. |
| Ingestion                                  | Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention. |
| 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. |
| 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. |

Continued on Next Page
Section 7. Handling and Storage

Precautions
Do not ingest. Do not breathe gas/fumes/vapour/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Storage
No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

Section 8. Exposure Controls/Personal Protection

Engineering Controls
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Personal Protection in Case of a Large Spill
Splash goggles. Full suit. Vapor 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 Liquid.
Odor Not available.

Molecular Weight Not applicable.
Taste Not available.

pH (1% soln/water) Neutral.
Color Yellowish.

Boiling Point 106°C (222.8°F)

Melting Point -40°C (-40°F)

Critical Temperature Not available.

Specific Gravity 1.299 (Water = 1)

Vapor Pressure The highest known value is 17.535 mm of Hg (@ 20°C) (Water).

Vapor Density The highest known value is 0.62 (Air = 1) (Water).

Volatile Not available.

Odor Threshold Not available.

Water/Oil Dist. Coeff. Not available.

Ionicity (in Water) Not available.

Dispersion Properties See solubility in water.

Solubility Easily soluble in cold water, hot water.

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 Non-corrosive in presence of glass.

Continued on Next Page
Section 11. Toxicological Information

Routes of Entry
Eye contact. Inhalation. Ingestion.

Toxicity to Animals
Acute oral toxicity (LD50): 90000 mg/kg [Rat].

Chronic Effects on Humans
Not available.

Other Toxic Effects on Humans
Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).
Slightly hazardous in case of skin contact (permeator).
Non-corrosive for skin. Non-sensitizer for skin.

Special Remarks on Toxicity to Animals
Not available.

Special Remarks on Chronic Effects on Humans
Not available.

Special Remarks on other Toxic Effects on Humans
Not available.

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 products of degradation are more toxic.

Special Remarks on the Products of Biodegradation
Not available.

Section 13. Disposal Considerations

Waste Disposal

Section 14. Transport Information

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

Identification
Not applicable.

Special Provisions for Transport
Not applicable.

Continued on Next Page
Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations

Connecticut carcinogen reporting list: Diethylenetriaminepentaacetic acid, pentasodium salt
TSCA 8(b) inventory: Water

California Proposition 65

Warnings

Other Regulations
Not available. or of its ingredients

Other Classifications

<table>
<thead>
<tr>
<th>Classification</th>
<th>WHMIS (Canada)</th>
<th>DSCL (EEC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not controlled</td>
<td></td>
<td>R36/37/38- Irritating to eyes, respiratory system and skin.</td>
</tr>
</tbody>
</table>

HMIS (U.S.A.)

| Health Hazard | 2 |
| Fire Hazard   | 0 |
| Reactivity    | 0 |
| Personal Protection | h |

National Fire Protection Association (U.S.A.)

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Specific hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Protective Equipment

- Gloves.
- Lab coat.

Continued on Next Page
Diethylenetriaminepentaacetic acid, pentasodium salt, 41%  

Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Splash goggles.

### Section 16. Other Information

<table>
<thead>
<tr>
<th>MSDS Code</th>
<th>D3276</th>
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<tbody>
<tr>
<td>References</td>
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<tr>
<td>Other Special Considerations</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Verified by Sonia Owen.  
Printed 9/12/2006.

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.