

Material Safety Data Sheet

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|--|---|---------------|---|-------------|---|------------|---|--|
| <p>NFPA</p>  | <p>HMIS</p> <table border="1" style="margin: auto;"> <tr><td style="background-color: #00FFFF;">Health Hazard</td><td style="text-align: center; border: 1px solid black;">1</td></tr> <tr><td style="background-color: #FFC0CB;">Fire Hazard</td><td style="text-align: center; border: 1px solid black;">1</td></tr> <tr><td style="background-color: #FFFF00;">Reactivity</td><td style="text-align: center; border: 1px solid black;">0</td></tr> </table> | Health Hazard | 1 | Fire Hazard | 1 | Reactivity | 0 | <p>Personal Protective Equipment</p>  <p>See Section 15.</p> |
| Health Hazard | 1 | | | | | | | |
| Fire Hazard | 1 | | | | | | | |
| Reactivity | 0 | | | | | | | |

| Section 1. Chemical Product and Company Identification | | Page Number: 1 |
|--|--|---|
| Common Name/Trade Name | Dowex 50X8-Na Ion Exchange Resin | Catalog Number(s). DWX85 |
| | | CAS# 9051-01-8 |
| Manufacturer | SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248 | RTECS Not applicable. |
| | | TSCA TSCA 8(b) inventory: Water; Sulfonated copolymer of styrene and divinylbenzene in the sodium form (CAS no. 69011-22-9) |
| Commercial Name(s) | Not available. | CI# Not available. |
| Synonym | Dowex 50W-Sodium strongly Acidic Cation Ion Exchange Resin Dowex 50WX8 Cation Exchange Resin, Sodium form | <p style="text-align: center; color: blue; margin: 0;">IN CASE OF EMERGENCY</p> <p style="text-align: center; color: blue; margin: 0;">CHEMTREC (24hr) 800-424-9300</p> <p style="text-align: center; margin: 0;">CALL (310) 516-8000</p> |
| Chemical Name | Not applicable. | |
| Chemical Family | Not available. | |
| Chemical Formula | Not applicable. | |
| Supplier | SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248 | |

| Section 2. Composition and Information on Ingredients | | | | | |
|---|------------|--|---------------------------|---------------------------|-------------|
| | | <i>Exposure Limits</i> | | | |
| Name | CAS # | TWA (mg/m ³) | STEL (mg/m ³) | CEIL (mg/m ³) | % by Weight |
| 1) Water | 7732-18-5 | | | | 30-80 |
| 2) Sulfonated copolymer of styrene and divinylbenzene in the sodium form. | 69011-22-9 | | | | 20-70 |
| Toxicological Data on Ingredients | | Sulfonated copolymer of styrene and divinylbenzene in the sodium form. LD50: Not available. LC50: Not available. | | | |

| Section 3. Hazards Identification | |
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| Potential Acute Health Effects | Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. |
| Potential Chronic Health Effects | CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. |

Section 4. First Aid Measures

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| 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. 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. |
| 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

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| Flammability of the Product | May be combustible at high temperature. |
| Auto-Ignition Temperature | Not available. |
| Flash Points | Not available. |
| Flammable Limits | Not available. |
| Products of Combustion | Not available. |
| Fire Hazards in Presence of Various Substances | Slightly flammable to flammable in presence of heat. Non-flammable in presence of open flames and sparks, of shocks, of oxidizing materials, of reducing materials, of combustible materials, of organic materials, of metals, of acids, of alkalis. |
| Explosion Hazards in Presence of Various Substances | Non-explosive in presence of open flames and sparks, of shocks. |
| 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. This product will not burn until water has evaporated. Hazardous decomposition products may include and are not limited to aromatic compounds, hydrocarbons, organic sulfonates, and sulfur oxides. |
| Special Remarks on Explosion Hazards | Not available. |

Section 6. Accidental Release Measures

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| 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 evacuate through the sanitary system. |

Section 7. Handling and Storage

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| 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. Keep away from incompatibles such as oxidizing agents. |
| Storage | Keep container tightly closed. Keep container in a cool, well-ventilated area. |

Section 8. Exposure Controls/Personal Protection

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| 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. Synthetic apron. Gloves (impervious). No respiratory protection should be needed. Good general ventilation should be sufficient for most conditions. |
| Personal Protection in Case of a Large Spill | Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. |
| Exposure Limits | Not available. |

Section 9. Physical and Chemical Properties

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| Physical state and appearance | Solid. (Beads solid.) | Odor | Odorless. |
| Molecular Weight | Not applicable. | Taste | Not available. |
| pH (1% soln/water) | Not available | Color | Yellow to brown. |
| Boiling Point | Not available. | | |
| Melting Point | Not available. | | |
| Critical Temperature | Not available. | | |
| Specific Gravity | The only known value is 1 (Water = 1) (Water). | | |
| Vapor Pressure | Not applicable. | | |
| Vapor Density | Not available. | | |
| Volatility | Not available. | | |
| Odor Threshold | Not available. | | |
| Water/Oil Dist. Coeff. | Not available. | | |
| Ionicity (in Water) | Not available. | | |
| Dispersion Properties | Not available. | | |
| Solubility | Insoluble in cold water. | | |

Section 10. Stability and Reactivity Data

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| Stability | The product is stable. |
| Instability Temperature | Not available. |
| Conditions of Instability | Excess heat, incompatible materials |
| Incompatibility with various substances | Reactive with oxidizing agents. |
| Corrosivity | Not available. |
| Special Remarks on Reactivity | Avoid contact with oxidizing materials. Oxidizing agents such as Nitric acid attack organic exchange resins under certain conditions. Before using strong oxidizing agents, consult sources knowledgeable in handling such materials. The severity of the reaction with oxidizing agents can vary from slight degradation to an explosive reaction. |

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| Special Remarks on Corrosivity | Not available. |
| Polymerization | Will not occur. |

Section 11. Toxicological Information

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| Routes of Entry | Inhalation. Ingestion. |
| Toxicity to Animals | Acute oral toxicity (LD50): >5000 mg/kg [Rat]. |
| Chronic Effects on Humans | Not available. |
| Other Toxic Effects on Humans | Slightly hazardous in case of skin contact (irritant), of ingestion. Non-permeator by skin. Non-hazardous in case of inhalation. |
| 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 | Acute Potential Health Effects: Skin: It is essentially nonirritating to skin. May cause slight skin irritation. Eyes: May cause slight irritation. Solid or dust may cause irritation or corneal injury due to mechanical action. Inhalation: Dust may cause respiratory tract irritation due to mechanical action. No adverse effects are anticipated from inhalation. Ingestion: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts during normal industrial handling. |

Section 12. Ecological Information

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| 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 | Not available. |
| Special Remarks on the Products of Biodegradation | Not available. |

Section 13. Disposal Considerations

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| Waste Disposal | Waste must be disposed of in accordance with federal, state and local environmental control regulations. |
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Section 14. Transport Information

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| DOT Classification | Not a DOT controlled material (United States). |
| Identification | Not applicable. |
| Special Provisions for Transport | Not applicable. |
| DOT (Pictograms) |  |

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations

TSCA 8(b) inventory: Water; Sulfonated copolymer of styrene and divinylbenzene in the sodium form (CAS no. 69011-22-9)

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

CAS no. 69011-22-9 is on the Canadian Domestic Substances List (DSL), and Inventory Lists for China, Philippines (PICCS), Australia (AICS).
CAS no. 9051-01-8 is listed on Australia (AICS) inventory.

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.)

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|---------------------|---|
| Health Hazard | 1 |
| Fire Hazard | 1 |
| Reactivity | 0 |
| Personal Protection | C |

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

Health  Flammability
Reactivity
Specific hazard

WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.



Not applicable.
Safety glasses.

Section 16. Other Information**MSDS Code** D3705**References** Not available.**Other Special Considerations** Not available.

Validated by Sonia Owen on 7/3/2012.

Verified by Sonia Owen.

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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.