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Section 1. Product Identification: Diaion Styrenic Mixed Bed Resin H/OH, Ultra Pure, 300-1180um
Part Numbers: SMNUPB

Section 2. Hazardous Identification

Class Name of Hazardous Chemicals for SDS: Not applicable

Physical Hazards: Not Classified

Health Hazards: Not Classified

Environmental Hazards: Not Classified

OSHA Defined Hazards: Not Classified

Supplemental Information: By contacting water or solvents, trace levels of substances such as (C₈H₇SO₃H)_n, N(CH₃), C₆H₅COOH, C₆H₅CHO, CH₃OH, H₂SO₄, HCHO etc. may be released into the liquid. Please refer to applicable regulations and, if necessary, please call for details.

Section 3. Composition / Information on Ingredients

Ingredient	CAS No.	%
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, chloromethylated, triethylamine-quaternized, hydroxide	69011-18-3	10-30
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated	69011-20-7	10-30
Remaining portion is water.	7732-18-5	40-80

Section 4. First Aid Measures

Skin contact: Wash material off skin with soap and water. Seek medical attention if irritation occurs and persists.

Eyes contact: Do not rub eyes. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contact lens, if present and easy to do. Seek medical attention if irritation occurs and persists.

Ingestion: Rinse mouth. Do not induce vomiting with out advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into lungs.

Inhalation: If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

Most important symptoms/effects, acute and delayed: Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

General Information: Ensure that medical personnel are aware of the materials involved, and take precautions to protect themselves.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media: Foam, carbon dioxide, dry chemicals.

Unsuitable Extinguishing Media: None known.

Specific Hazards Arising from the Chemical: During fire, gases hazardous to health may be formed.

Special Protective Equipment: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire Fighting equipment/instructions: Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Section 6. Accidental Release Measures

Personal Precautions: Ensure adequate ventilation. Resins may be slippery. Do not step on the spilled resins. Evacuate non-essential personnel.

Environmental Precautions: Prevent spilled resins from entering sewers or waterways.

Methods for Clean Up: Sweep up, place in closed containers and have them disposed of by experts. Dispose in a facility for non-hazardous wastes. Spent should be disposed of in accordance with State and Federal laws.

Section 6 Continued. Accidental Release Measures

Environmental precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

Section 7. Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Observe good industrial hygiene practice. Avoid release to the environment

Conditions for Safe Storage including incompatibilities: Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store above freezing. Store away from incompatible materials, see section 10.

Section 8. Exposure Controls / Personal Protection

Occupational Exposure Limit: No exposure limits noted for ingredients.

Biological Limit Values: No biological exposure limits noted for the ingredients.

Appropriate Engineering Controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eye wash station.

Individual Personal Protection Measures, such as Personal Protective Equipment:

Eye/Face Protection: Chemical goggles are recommended.

Skin Protection:

Hand Protection: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier

Other: Wear suitable protective clothing.

Respiratory Protection: No personal respiratory protective clothing.

Thermal Hazards: Wear appropriate thermal protective clothing, when necessary.

Section 9. Physical and Chemical Properties

Appearance:

Physical State: Solid

Form: Spherical beads

Color: Light yellow translucent beads and brown translucent beads

Odor: Slight. Amine-like

Odor Threshold: Not available

pH: Not applicable

Melting point/Freezing point: Not applicable

Initial Boiling point: and Boiling range: Not applicable

Flash point: Not applicable

Evaporation rate: Not applicable

Flammability (solid, gas): The product is not flammable.

Upper/lower flammability or explosive limits:

Flammability limit-lower (%): Not applicable

Flammability limit-upper (%): Not applicable

Explosive limit-lower (%): Not applicable

Explosive limit-upper (%): Not applicable

Vapor Pressure: None

Vapor Density: None

Relative Density: approx. 1.1 (25 C)

Solubility: (Water): Insoluble

(Other): Insoluble (Solvent)

Partition Coefficient: (n-Octanol/water): Not applicable

Auto-ignition temperature: 752 deg. F (400 deg. C)

Decomposition temperature: 248 deg. F (120 deg. C)

Viscosity: Not applicable

Other Information:

Bulk Density: 0.7 kg/m³

Explosive properties: Not explosive

Flammability: Not applicable

Oxidizing properties: Not oxidizing

Section 10. Stability and Reactivity

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

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of use.

Conditions to Avoid: Contact with incompatible materials.

Incompatible Materials to Avoid: Strong oxidizing substances.

Hazardous Decomposition Products: Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. At thermal decomposition temperatures, NOx, HCl, carbon monoxide and carbon dioxide.

Section 11. Toxicological Information

Information on likely routes of exposure

Inhalation: No adverse effects due to inhalation are expected.

Skin contact: Health injuries are not known or expected under normal use.

Eye contact: May cause slight transient eye irritation.

Ingestion: May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics: Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Skin Corrosion/irritation: Prolonged skin contact may cause temporary irritation. Molten material will produce thermal burns.

Serious eye damage/eye irritation: May cause transient eye irritation.

Respiratory or skin sensitization:

Respiratory sensitization: Not a respiratory sensitizer.

Skin sensitization: Not a skin sensitizer.

Germ Cell Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: Not classified.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity—single exposure: Not classified

Specific target organ toxicity—repeated exposure: Not classified

Aspiration hazard: Not a aspiration hazard.

Chronic Effects: Prolonged inhalation may be harmful.

Section 12. Ecological Information

Ecotoxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and Degradability: No data available.

Bioaccumulation potential: No data available.

Mobility in soil: No data available.

Other Adverse Effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

Section 13. Disposal Considerations

Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations: Dispose in accordance with all applicable regulations.

Hazardous waste code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues/unused product: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14. Transport Information

DOT: Not regulated as dangerous goods

IATA: Not regulated as dangerous goods

IMDG: Not regulated as dangerous goods

Transportation in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Section 15. Regulatory Information

US Federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4): Not listed.

SARA 304 Emergency Release Notification: Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories: Immediate Hazard: No

Delayed Hazard: No

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

SARA 302 Extremely hazardous substance : Not listed

SARA 311/312 Hazardous chemical: Not regulated

SARA 313 (TRI reporting): Not regulated

Other Federal Regulations

Clean Air Act (CAA) Section 112 Hazardous Air pollutants (HAPs) List: Not regulated

Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130): Not regulated

Safe Drinking Water Act (SDWA): Not regulated

International Inventories

<u>Country</u>	<u>Inventory Name</u>	<u>On Inventory (Yes/No)*</u>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country.

A "No" indicates that one or more components of the product are not exempt from listing on the inventory administered by the governing country.

Section 16. Additional Information

[The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to these products or handling of these products. Customers/users must comply with all applicable health and safety laws, regulations, and orders]

SDS REVISION SUMMARY: