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Form #: STI-065 Date: revision 004 04/09/2019

Section 1. PRODUCT IDENTIFICATION

Product Identifiers

Product Name: Diaion Resin, Styrenic Absorbent, 520A, 75-150um,600m2/g, Water content: 55-65%

CAS number: 9052-95-3

Product Part Numbers: HP20, HP20SS

Synonyms: Synthetic absorbent resin

Recommended use: Chromatography, Laboratory chemicals

Uses advised against: None known

Details of the Supplier of the Safety Data Sheet:

Company: Sorbent Technologies

5955 Peachtree Corners East
Norcross, GA 30071 USA

Emergency Telephone Number: 1-866-767-2832

Section 2. HAZARD IDENTIFICATION

United States: According OSHA 29 CFR 1910.1200 HCS

GHS Classification of the Substance or Mixture:

Physical hazards: Not classified.

Health hazards: Serious eye damage/eye irritation. Category 2A

Environmental hazards: Not classified.

GHS Label Elements, including Precautionary Statements:

Signal word: Warning



Hazard statement: Causes serious eye irritation.

Emergency Overview: Odorless white or yellowish white spherical beads.

Potential Health Effects: Medical conditions aggravated by exposure: Serious eye damage/eye irritation.

Precautionary statement:

Prevention: Wash thoroughly after handling. Wear eye protection/face protection.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage: Store away from incompatible materials.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

Carcinogenic Effects: IARC: Not listed NTP: Not listed OSHA: Not regulated

Other Hazards Not Otherwise Classified (HNOC): None known.

Supplemental information: By contacting with water or solvents, trace level of substances such as C10H10, C10H12, C10H14, C8H8, C6H5CHO, HCHO, etc. may be released into the liquid. Please refer to applicable regulations.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization:

Ingredient	CAS No.	%
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene	9052-95-3	30-70
Water	7732-18-5	30-70

Synonyms: Macroporous styrenic polymeric bead type resin.
Molecular weight: Not known.

Section 4. FIRST AID MEASURES

First Aid Procedures

Skin: Wash material off skin with soap and water. Seek medical attention if irritation develops and persists.
Eyes: Do not rub eyes. Flush with copious amounts of water for 15 minutes while holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation develops and persists.
Ingestion: Rinse the mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content does not get into lungs. Seek medical attention if gastrointestinal symptoms develop.
Inhalation: Remove to fresh air. Seek medical attention if cough or respiratory symptoms develop.

Most Important Symptoms and Effects, both acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Provide general supportive measures and treat symptomatically. Keep victim under observation. observation. Symptoms may be delayed.

General Information

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

Section 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Foam. Dry chemicals. Carbon dioxide (CO₂)

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire..

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Flash Point: Not applicable.

Non-flammable: OSHA Method 16CFR1500.44 (Incorporated by reference in 29CFR1920.1200).

Flammability Limits in Air: LFL and UFL, Not applicable.

Auto ignition temperature: Not applicable.

Protective equipment and precautions for firefighters

General fire Hazard: No unusual fire or explosion hazards noted.

Protection of firefighters: Cool containers exposed to heat with water spray and remove container from the fire area if you do so without risk.

Fire Fighting Instructions: Isolate large fires and allow to burn out. Extinguish fire using water fog, fine water spray, carbon dioxide or foam. Avoid stirring up dust clouds.

Fire Fighting Equipment: Fire fighting personnel should wear full protective equipment, including self-contained breathing apparatus (SCBA) for all inside fires and large outdoor fires.

Hazardous Combustion Products: Under certain conditions, any airborne dust be an explosion hazard. Hazard greater as fineness increases.

Specific methods: Use standard firefighting procedure and consider the hazards of other involved materials.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid dust formation. Avoid breathing vapors, mist or gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Resins may be slippery. Do not step on the spilled resins. Evacuate non-essential personnel. Wear suitable protective clothing and gloves. For personal protection, see section 13 of this SDS.

Environmental Precautions

Avoid discharge into drains, water courses or onto the ground.

Methods and Material for Containment and Clean-up

If a Spill or Leak Occurs: Stop the flow of material, if this is without risk. Ventilate the contaminated area. Wear appropriate protective equipment and clothing during clean-up. Clean-up spills in a manner that does not disperse dust into the air. Handle in accordance with industrial hygiene and safety practices. These practices include avoiding unnecessary exposure, and removal from eyes, skin, and clothing. The product is immiscible with water and will sediment in water systems. Prevent product from entering drains. Disposal Method: Sweep up or vacuum up and shovel into suitable containers for disposal. Following product recovery, flush area with water. Spent should be disposed of in accordance with State and Federal laws. For waste disposal, see section 13 of this SDS. Container Disposal: Do not reuse empty bags or drums.

Section 7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Avoid contact with eyes and skin. Provide adequate ventilation. Wear appropriate personal protective equipment. Do not breathe dust. Keep away from ignition sources. Use in well ventilated areas. Protect containers from physical damage. Wash hands after handling. Observe good industrial hygiene practices. Avoid release to the environment.

Conditions for Safe Storage, Including any Incompatibilities

Storage: Store in cool, dry, ventilated area and in tightly closed containers. Keep away from oxidizers, direct sunlight, heat or flames. Store away from ignition sources. Store above freezing. Store away from incompatible materials (see section 10 of this SDS).

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Guidelines: No exposure limits noted for ingredients.

Component	OSHA PEL	ACGIH TLV
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene (9052-95-3)	Not established	Not established (TWA)

ACGIH is the American Conference of Governmental Industrial Hygienists

OSHA is the Occupational Safety and Health Administration

NIOSH is the National Institute of Occupational Safety and Health

PEL is the Permissible Exposure Limits established by OSHA.

TLV is the Threshold Limit Value a term ACGIH uses to express the maximum airborne concentration of a material to which most workers can be exposed during a normal daily and weekly work schedule without adverse effects.

MSHA is the Mine Safety and Health Administration

Exposure Controls

Engineering Controls: Provide eye wash station. Use local exhaust to control emissions near the source. Ventilation systems should be configured to prevent exceeding the recommended or regulated exposure limits (i.e. OSHA PELs).

Eye Protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses with side shields are recommended for any type of handling. Where eye contact or dusty conditions may likely, dust tight goggles are recommended. Have eye washing equipment available.

Skin/Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Avoid skin contact with this product. Wear appropriate dust resistant clothing. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

Full contact material: Nitrile rubber of minimum layer thickness 0.11 mm and break through time 480 minutes.

Body protection: Choose protection in relation to its type, to the concentration and the amount of any dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and of the amount of any dangerous substances at the specific workplace.

Respiratory Protection: Follow the OSHA respiratory regulations found in 29 CFR 1910.134 or European Standard EN149. Keep dust exposure to a minimum with engineering and administrative controls.

Use appropriate NIOSH/MSHA approved particulate respirators if necessary. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Use type N95 (US) or type P1 (EN 143) dust masks for nuisance levels of dust.

General Industrial Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

Environmental Exposure Controls

No special environmental precautions required.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State:	Solid
Appearance:	White or yellowish white spherical beads
Odor:	None
Odor Threshold:	No data available
pH:	Not applicable
Melting Point/Range:	Not applicable
Boiling Point/Range:	Not applicable
Flash Point:	Not applicable
Evaporation Rate:	No information available
Flammability (solid, gas);	No information available
Flammability or Explosive Limits	
Upper:	No data available
Lower:	No data available
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Relative Density:	1.05 at 25 deg. C (water =1)
Solubility (water):	Insoluble
Solubility (solvents):	Insoluble
Partition Coefficient; n-octanol/water:	Not applicable
Autoignition Temperature:	480 deg. C (896 deg. F)
Decomposition Temperature:	410 deg. C (770 deg. F)
Viscosity:	Not applicable
Bulk density:	0.7 Kg/m ³
Explosive properties:	Not explosive
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: This product is stable under normal conditions of storage, shipment and use.

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

Conditions to Avoid:

Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.

Incompatible Materials:

Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion.

Hazardous Decomposition Products:

Thermal decomposition can lead to release of irritating and/or toxic fumes and gases may be emitted. At thermal decomposition temperatures carbon monoxide and carbon dioxide can be emitted.

Section 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Component	LD50	LD50	LC50
	Oral	Dermal	Inhalation
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene	N/A	N/A	N/A

Delayed and Immediate Effects as well as Chronic Effects from Short and Long Term Exposure

Toxicological information: Occupational exposure to the substance or mixture may cause adverse effects.

Toxicologically Synergistic Products: No information available.

Skin irritation: Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Respiratory sensitization: Not a respiratory sensitizer.

Skin sensitization: This product is not expected to cause skin sensitization

Carcinogenicity Table below indicates if each agency has listed any ingredient as a Carcinogen.

Component	CAS-No.	IARC	NTP	ACGIH	OSHA	Mexico
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene	9052-95-3	Not listed	Not listed	Not listed	Not listed	Not listed

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

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

Developmental Effects: No information available.

Teratogenicity: No information available.

Specific Target Organ Toxicity (STOT)-single exposure: Not classified.

Specific Target Organ Toxicity (STOT)-repeated exposure: Not classified.

Aspiration: Not an aspiration hazard.

Symptoms / Effects, Both Acute and Delayed: Prolonged inhalation may be harmful.

Endocrine Disruptor Information: No information available.

Other Adverse Effects: The toxicological properties have not been fully investigated.

Symptoms: Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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 harmful or damaging effect on the environment.

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

Persistence/ Degradability

No information available on the degradability of this product.

Bioaccumulation Potential

No information available.

Mobility in Soil

No information 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 component.

Section 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Product: Collect and reclaim or dispose in sealed containers at a licensed or waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Waste from Residues/unused products: 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: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Local regulations may be more stringent than state or federal requirements. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. TRANSPORTATION INFORMATION

Land:	DOT (US):	Not regulated as dangerous goods.
	ADR (EU)	
	RID (EU):	Not regulated as dangerous goods.
	TDG (Canada):	Not regulated as dangerous goods.

Water:	IMO/IMDG:	Not regulated as dangerous goods.
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Air:	IACO/IATA:	Not regulated as dangerous goods.
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Transportation in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable.

Special Precautions for User: No information available

Section 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
9052-95-3	X	X	-	-	-		X	X	X	X	X

X indicates listed (yes)

- indicates not listed (no)

DSL—Canada

NDSL—Canada

EINECS—European Union

IECSC—China

KECI—Korea Existing Chemicals Inventory

MITI—Japan Ministry of International Trade and Industry

ENCS—Japan Existing and New Chemical Substances

PICCS—Philippines Inventory of Chemical and Chemical Substances

U.S. Federal Regulations

TSCA: CAS# 9052-95-3 is listed on the TSCA inventory. Not regulated.

CERCLA Hazardous Substances and Corresponding RQs: None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ.

SARA Codes: CAS# 9052-95-3:

SARA 311/312 Hazardous Categorization:

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden Release of Pressure:	No
Reactive Hazard:	No

SARA Section 313: Not regulated

Clean Air Act:

This material does not contain any hazardous air pollutants, Class 1 Ozone depletors or Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.

OSHA: Not applicable

CERCLA: Not applicable

U.S. Department of Transportation (DOT)

Reportable Quantity (RQ): No

DOT Marine Pollutant: No

DOT severe Marine Pollutant: No

U.S. Department of Homeland Security (DHS)

This product does not contain any DHS chemicals.

States Right-to-Know

CAS# 9052-95-3

California Prop 65: Not listed. This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts: No data

New Jersey Right to Know: No data.

Pennsylvania: No data.

Florida: No data.

Rhode Island: No data.

Illinois: No data.

Canadian Classification

WHMIS: Non-controlled.

DSL: Listed.

EEC Council Directives relating to the classification, packaging, and labeling of dangerous substances and preparations.

Risk and Safety Phrases: R36 Irritating to eyes
S2: Keep out of reach of children

Mexico—Grade

No information available.

Section 16. OTHER 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: revision 004 dated 04/09/19
replaces revision 003 dated 11/18/16.*

This document has been updated to comply with the U.S. OSHA HazCom 2012 Standard replacing the current Legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)