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Form #: STI-099

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Section 1. PRODUCT IDENTIFICATION

Product Identifiers

Product Name: Clarion MINI Spin Columns SEQ S-50
CAS number: 9048-71-9
REACH Registration No.: Not known.

Product Part Numbers: 803007

Synonyms: Zetadex-50SF

Recommended use: Laboratory chemical.

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

Telephone Number: 770-936-0323

Emergency Telephone Number: 1-866-767-2832

Section 2. HAZARD IDENTIFICATION

United States: According OSHA 29 CFR 1910.1200 HCS

Classification of the Substance or Mixture:

Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

GHS Label Elements according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

The product does not need to be labeled in accordance with EC directives or respective national laws.

Emergency Overview: White bead/solid.

Potential Health Effects: Medical conditions aggravated by exposure: Not expected to be a health hazard.

Response:

Eyes: Not expected to cause a mild physical irritation.

Skin: Not expected to cause irritation.

Ingestion: No adverse effects expected.

Inhalation: Not expected to cause irritation of respiratory tract.

Chronic Effects: No adverse effects expected.

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

Other Hazards Not Otherwise Classified (HNOC): None identified

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization: Main component of the substance.

<u>Ingredient</u>	<u>CAS No.</u>	<u>EC No.</u>	<u>%</u>
Bead formed composite cross-linked dextran, swollen in deionized water	9048-71-9	Not known	100

Synonyms: Zetadex-50SF

Formula: No data available.

Molecular weight: No data available.

Section 4. FIRST AID MEASURES

Description of First Aid Measures

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

Eyes: Flush with copious amounts of water for 15 minutes. Seek medical attention if irritation occurs.

Ingestion: Give one or two glasses of water to drink. 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

To the best of our knowledge, chemical, physical and toxicological properties have not been thoroughly investigated.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Section 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: CO2, powder, alcohol-resistant foam, water in large amounts.

Unsuitable Extinguishing Media: No data available.

Flash Point: No data available.

Flammability Limits in Air: LFL and UFL No data available.

Auto ignition temperature: No data available.

Special Hazards Arising from the Substance or Mixture

Hazardous combustion products: Oxides of carbon.

Advice for Firefighters

General Hazard: Not considered to be a fire hazard.

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

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.

Additional Information

No data available.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective clothing. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental Precautions

Do not allow to penetrate the ground/soil..

Methods and Material for Containment and Clean-up

If a Spill or Leak Occurs: 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. Prevent product from entering drains.

Disposal Method: Sweep up and shovel into suitable containers for disposal. Dispose in a facility for non-hazardous wastes. Spent should be disposed of in accordance with State and Federal laws.

Container Disposal: Do not reuse empty bags or drums. Dispose of used bags in facility permitted for non-hazardous wastes.

Section 7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Avoid prolonged contact with eyes and skin. Do not breath dust. Keep away from ignition sources. Use in well ventilated areas. Protect containers from physical damage. Wash hands after handling.

Conditions for Safe Storage, Including any Incompatibilities

Storage: Store in cool, dry, well-ventilated area and in closed containers. Keep away form oxidizers, heat or flames. Store away form ignition sources. Store at ambient temperature. Moisture sensitive.

Storage class (TRGS 510): Non-combustible Solids

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region regulatory bodies.

Component	OSHA PEL	ACGIH TLV	NIOSHI DLH
Bead formed composite cross-linked dextran swollen in deionized water (9048-71-9)	No data available	No data available	No data available

Component	Canada Quebec	Canada Ontario TWAEV	Mexico OEL (TWA)
Bead formed composite cross-linked dextran swollen in deionized water (9048-71-9)	No data available	No data available	No data available

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: 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 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. The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374. Clean protective equipment before reuse. Wash skin thoroughly after handling.

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:	White solid suspension in closed filtration plate.
Appearance:	White bead/solid
Odor:	No data available
Odor Threshold:	No data available
pH:	7.4
Melting Point/Range:	No data available
Boiling Point/Range:	No data available
Flash Point:	Product does not sustain combustion.
Evaporation Rate:	No data available
Flammability (solid, gas);	Not considered to be flammable.
Flammability or Explosive Limits	
Upper:	No data available
Lower:	No data available
Vapor Pressure:	No data available
Vapor Density:	No data available
Relative Density:	No data available
Solubility in water:	No data available
Partition Coefficient; n-octanol/water:	No data available
Autoignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available
Explosive properties:	Not considered to be a product presenting a risk of explosion.
Oxidizing properties:	No data available
Other Safety Information	No data available

Section 10. STABILITY AND REACTIVITY

Reactivity

None known based on the information available.

Chemical Stability

This product is stable under the specified conditions of storage, shipment and use. Avoid storing at high temperatures or in direct sunlight. Store ambient temperatures.

Possibility of Hazardous Reactions

No data available.

Conditions to Avoid

Exposure to moisture.

Incompatibility Materials

No data available.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors such as carbon oxides.

Section 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Bead formed composite cross-linked dextran swollen in deionized water	No data available (OECD Guideline 401)	No data available	No data available (OECD Guideline 403)

Toxicologically Synergistic Products: No information available.

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

Irritation: No data available
Sensitization: No data available.

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

Component	CAS-No.	IARC	NTP	ACGIH	OSHA	Mexico
Bead formed composite cross-linked dextran Swollen in deionized water	9048-71-9	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects: No information available.

Reproductive Effects: No information available.

Developmental Effects: No information available.

Teratogenicity: No information available.

Specific Target Organ Toxicity (STOT)-single exposure: None known.

Specific Target Organ Toxicity (STOT)-repeated exposure: None known.

Aspiration: No information available.

Potential Health Effects

Eyes: No known significant effects or critical hazards.

Skin: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Symptoms / Effects, Both Acute and Delayed: No information available.

Endocrine Disruptor Information: No information available.

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

Section 12. ECOLOGICAL INFORMATION

Toxicity

No data available.

Persistence/ Degradability

No data available.

Bioaccumulation Potential

No data available.

Mobility in Soil

No data available.

Results of PBT and vPvB assessment

No data available.

Other Adverse Effects

No data available.

Section 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Product: This product is not considered a hazardous waste. Vacuum or shovel material into a closed container for reuse or disposal. Offer to a licensed disposal company. Storage and disposal should be in accordance with applicable local, state and federal laws and regulations.

Contaminated Packaging: Local regulations may be more stringent than state or federal requirements.

Section 14. TRANSPORTATION INFORMATION

Land: **DOT (US) :** Not regulated.

ADR/RID (EU) Not regulated

TDG (Canada): Not regulated.

Water: **IMO/IMDG:** Not regulated.

Air: **IACO/IATA:** Not regulated.

Special Precautions for User No data available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Pollution cat. (X, Y or Z): none

Type of ship (1,2 or 3): None

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
Composite cross-linked dextran											
Swollen in deionized water	X	X	-	-	-		X	X	X	X	X

X indicates listed.

U.S. Federal Regulations

TSCA: CAS# 9048-71-9 is listed on the TSCA inventory.

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# 9048-71-9:

SARA 311/312 Hazardous Categorization:

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

SARA Section 313: No data available.

Clean Air Act:

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

Clean Water Act:

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

OSHA: No data available.

CERCLA: No data available.

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

Bead formed composite cross-linked dextran, CAS # 9048-71-9

California Prop 65: No data available.

Massachusetts: No data available.

New Jersey Right to Know: No data available.

Pennsylvania: No data available.

Florida: No data available.

Rhode Island: No data available.

Illinois: No data available.

Connecticut - Hazardous Air pollutants: No data available.

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: S2: Keep out of reach of children,,

Mexico—Grade

No information available.

Section 16. OTHER INFORMATION

According to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

No data available.

According to European Directive 67/548/EEC or 1999/45/EC.

No data available

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:

This document complies 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)