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Section 1. PRODUCT IDENTIFICATION

Product Identifiers

Product Name: Clarion™ P25, P100 Columns, hydrated gel filtration columns for protein purification.

For sample volumes of 2.5 ml and 10mls.

REACH Registration No.: Not known

Product Part Numbers: 803022-2, 803025-10

Synonyms: Hydrated Gel Filtration Columns

Recommended use: Laboratory chemical

Uses advised against: No information available.

Details of the Supplier of the Safety Data Sheet:

Company: Sorbent Technologies

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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]

<u>Hazard classes and Hazard categories</u>	<u>Hazard statements</u>
Skin Sensitization 1	H317

Classification according to EC-directives 67/548/EEC or 1999/45/EC

<u>Hazard symbol codes</u>	<u>R-phases</u>
	R43

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

<u>Pictograms</u>	<u>Signal word</u>	<u>Hazard Statements</u>
	Danger	H317 May cause an allergic skin reaction



GHS07

Precautionary statements

P262	Do not get in eyes. On skin, or clothing
P280	Wear protective gloves / protective clothing / face protection
P302+P352	IF ON SKIN: Wash with soap and water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Information (EU)

None

Label elements according to European Directive 67/548/EEC or 1999/45/EC

Hazard symbols

None

R-phrases

R43 May cause sensitization by skin contact.

S-phrases

S26	In case of contact with eyes, rinse immediately with water and seek medical advice.
S28	After contact with skin, wash immediately with plenty of water.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

Other Hazards Not Otherwise Classified (HNOC): None identified

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures Description of the mixture: Liquid suspension

Hazardous ingredients

Component

Classification

Percentage

According to Regulation (EC) No. 1272/2008 [EU-GHS/CLP] According to EU Directives 1999/45/EC

Reaction mass of: 5-Chlor-2-methyl-2H-isothiazol-3-on [EC No.: 247-500-7] and 2-Methyl-2H-isothiazol-3-on [EC No.: 220-239-6] (3:1)

Magnesium nitrate

CAS No.: 55965-84-9	Acute Tox. 3; H301	T; R23/24/25	0.0015—0.06%
Index No.: 613-167-00-5	Acute Tox. 3; H311	C; R34 (c ≥ 0.6%)	
	Acute Tox. 3; H331	Xi; R36/38 (0.06% ≤ c < 0.6%)	
	Skin Corr. 1B; H314 (c ≥ 0.6%)	R43 (c ≥ 0.0015%)	
	Skin Sens. 1; H317 (c ≥ 0.0015%)	N; R50/53	
	Skin Irrit. 2; H315 (0.06% ≤ c < 0.6%)		
	Eye Irrit. 2; H319 (0.06% ≤ c < 0.6%)		
	Aquatic Acute 1; H400		
	Aquatic Chronic 1; H410		

(For the full text of the listed hazard classes, hazard categories, hazard statements, hazard symbol codes and

CAS No.: 10377-60-3	Ox. Sol. 3; H272	O; R8	0.03—0.04%
EG No.: 233-826-7	Skin Irrit. 2; H319	Xi; R36/37/38	

R-phrases see section 16)

Section 4. FIRST AID MEASURES

Description of First Aid Measures

General Advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

After inhalation:

Remove to fresh air. Seek medical attention if cough or respiratory symptoms develop.

After skin contact:

Wash off with plenty of water. Remove contaminated clothing. If skin irritation continues, consult a doctor.

After eye contact:

Rinse out with plenty of water with the eyelid held open (>10 minutes).

After swallowing:

Rinse out mouth and drink a glass of water. Do not induce vomiting. Seek medical advice immediately and show the container or label. Call for a doctor immediately.

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: No data available.

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.

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 contact with eyes and skin. Avoid formation of vapors /aerosols 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. Store at ambient temperature.

Specific end uses

Liquid chromatography. Research and development.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

No components with workplace control parameters.

Exposure Controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

Personal protective equipment:

Ensure that eyewash stations and safety showers are close to the workstation location. Use with local exhaust ventilation. Prevent vapor buildup by providing adequate ventilation during and after use. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: A respiratory is not needed under normal and intended conditions of product use.

Eye protection: Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand protection: Solvent-resistant gloves must be inspected prior to use. Replace when worn.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374. Due to missing tests no recommendation to the glove material can be given for the product.

Skin and body protection: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

General Industrial Hygiene Considerations

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Keep working clothes separately.

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 column.
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
Molecular Formula:	No data available
Molecular weight:	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

Heat, flames and sparks. Extremes of temperature and direct sunlight. Protect from exposure to air/oxygen (peroxide formation).

Incompatibility Materials

No data available.

Hazardous Decomposition Products

Other decomposition products: No data available.

Section 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Reaction mass as 5-chlor-2-methyl-2H-isothiazol-3-on and 2-Methyl-2H-isothiazol-3on (3:1)	53mg/kg	No data available	No data available
CAS No. 55965-84-9	(OECD Guideline 401)		(OECD Guideline 403)

Toxicologically Synergistic Products: No information available.

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

Skin corrosion/irritation: No data available.

Serious eye damage/eye irritation: No data available.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No data available.
Developmental Effects: No information available.
Teratogenicity: No information available.

Specific Target Organ Toxicity (STOT)-single exposure: No data available.
Specific Target Organ Toxicity (STOT)-repeated exposure: No data available.

Aspiration Hazard: No data available.

Potential Health Effects

Ingestion: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin: May cause an allergic reaction.
Eyes: No known significant effects or critical hazards.

Symptoms / Effects, Both Acute and Delayed: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Endocrine Disruptor Information: No information available.
Other Adverse Effects: RTECS numbers (NIOSH): No data available.

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: Offer surplus and non-recyclable suspension to a licensed disposal company.

Contaminated Packaging: Dispose of as unused product. 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 Not dangerous goods.
TDG (Canada): Not regulated.
Water: **IMO/IMDG:** Not regulated. Not dangerous goods.
Air: **IACO/IATA:** Not regulated. Not dangerous goods.

Environmental hazards:

ADR/RID: No IMDG Marine pollutant: No IATA: No

Special Precautions for User No data available.

Transportation in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category (X, Y or Z):

Type of ship (1, 2 or 3):

Section 15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

No data available.

Chemical Safety Assessment

No data available.

Section 16. OTHER INFORMATION

Used abbreviations and acronyms can be looked up under www.wikipedia.de

Full text of the listed hazard classes, hazard categories, hazard symbol codes and R-phrases in section 2 to 15

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

Acute Tox. 3 Acute toxicity: Oral, Category 3

Acute Tox. 3 Acute toxicity: Skin, Category 3

Acute Tox. 3 Acute toxicity: Inhalation, Category 3

Skin Irrit. 2 Skin irritation, Category 2

Skin Sens. 1 Skin sensitization, Category 1

Skin Corr. 1B Skin corrosion, Category 1B

Aquatic Acute 1 Hazardous to the aquatic environment: Acute, Category 1

Aquatic Chronic 1 Hazardous to the aquatic environment, Chronic, Category 1

Ox.Sol. 3 Oxidizing solid, Category 3

H272 May intensify fire; oxidizer.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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

T Toxic

C Corrosive

Xi Irritant

N Dangerous for the environment

O Oxidizing

R8 Contact with combustible material may cause fire.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R34 Causes burns.

R36/38 Irritating to eyes and skin.

R36/37/38 Irritating to eyes, respiratory system and skin.

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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: Replaces revision 000 10/02/2018

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)