

SAFETY DATA SHEET

United States

Section 1. Identification Product name

Sera-Mag™ SpeedBeads™ Neutravidin™-Coated Magnetic Particles, 5 ml

Catalogue Number

78152104010150

Other means of identification Product type

Not available. Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Use in laboratories

Industrial applications: Analytical chemistry. Research.

Supplier

Cytiva Amersham Place Little Chalfont Buckinghamshire HP7 9NA United Kingdom +44 0800 515 313 Cytiva USA 100 Results Way Marlborough, MA 01752 1-800-526-3593

In case of emergency	ChemTrec US (available 24/7) 1-800-424-9300					
Section 2. Hazards iden	tification					
OSHA/HCS status	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.					
Classification of the substance or mixture	Not classified.					
GHS label elements						
Signal word	No signal word.					
Hazard statements	No known significant effects or critical hazards.					
Precautionary statements						
Prevention	Not applicable.					
Response	Not applicable.					
Storage	Not applicable.					
Disposal	Not applicable.					
Hazards not otherwise classified	None known.					



Section 3. Composition/information on ingredients

Substance/mixture	Mixture
Other means of identification	Not available.
CAS number/other identifiers	
CAS number	Not applicable.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check						
	for and remove any contact lenses. Get medical attention if irritation occurs.						
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical						
	attention if symptoms occur.						
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.						
Ingestion	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.						
Most important symptoms/effects	s, acute and delayed						
Potential acute health effects							
Eye contact	No known significant effects or critical hazards.						
Inhalation	No known significant effects or critical hazards.						
Skin contact	No known significant effects or critical hazards.						
Ingestion	o known significant effects or critical hazards.						
Over-exposure signs/symptoms							
Eye contact	No specific data.						
Inhalation	No specific data.						
Skin contact	No specific data.						
Ingestion	o specific data.						
Indication of immediate medical	attention and special treatment needed, if necessary						
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.						
Specific treatments	No specific treatment.						
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.						
See toxicological information (Section 11)							
Section 5. Fire-fighting measures							
Extinguishing media							
Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.						
galering mould							

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.				
Unsuitable extinguishing media	None known.				
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.				
Hazardous thermal decomposition products	No specific data.				
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.				
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.				



Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or					
	walk through spilled material. Put on appropriate personal protective equipment.					
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".					
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).					
Methods and materials for containment and cleaning up						
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water- soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.					
Large spill	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.					
Section 7. Handling and	storage					

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Precautions for safe handling						
Protective measures	Put on appropriate personal protective equipment (see Section 8).					
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.					
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.					

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits None.						
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.					
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.					
Individual protection measures						
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.					
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.					
Skin protection						
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.					
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.					
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.					
Respiratory protection	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.					

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29103156

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	Liquid.
Color	Brown.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point	Not available.
Boiling point	Not available.
Flash point	[Product does not sustain combustion.]
Burning time	Not applicable.
Burning rate	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.
Lower and upper explosive (flammable) limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility	Not available.
Solubility in water	Not available.
Partition coefficient: n-octanol/ water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
SADT	Not available.
Viscosity	Not available.
Flow time (ISO 2431)	Not available.
Aerosol product	

Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No specific data.
Incompatible materials	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion Not available.

Sensitization Not available.

Mutagenicity Not available.

Carcinogenicity Not available.

Reproductive toxicity Not available.

Teratogenicity Not available.

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Specific target organ toxicity (s Not available.	ingle exposure)
Specific target organ toxicity (r Not available.	epeated exposure)
Aspiration hazard	
Not available.	
Information on the likely routes of exposure	Routes of entry anticipated: Dermal, Inhalation. Routes of entry not anticipated: Oral.
Potential acute health effects	
Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Symptoms related to the physical	I, chemical and toxicological characteristics
Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.
Delayed and immediate effects a	nd also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Long term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Potential chronic health effects	
Not available.	
General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.
Numerical measures of toxicity	
Acute toxicity estimates	
N/A	
Section 12. Ecological in	formation
Toxicity	
Not available.	
Persistence and degradability Not available.	

Not available. Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K _{oc})

Other adverse effects

No known significant effects or critical hazards.



Not available.

Section 13. Disposal considerations

requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.	Disposal methods	contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues.
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Section 14. Transport information

Product is not regulated as dangerous goods for transport.

Section 15. Regulatory in	nformation						
U.S. Federal regulations	TSCA 8(a) CDR Exempt/Partial exemption: Not determined						
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)		ants	Not listed	Ł			
Clean Air Act Section 602 Class	I Substances		Not listed	t			
Clean Air Act Section 602 Class			Not listed				
DEA List I Chemicals (Precursor			Not listed				
DEA List II Chemicals (Essential	Chemicals)		Not listed	L			
SARA 302/304 Composition/information on inc	aradiants						
<u>composition/mormation on m</u>	greatents			CADA 202			
Name		%	EHS	SARA 302 ⁻ (lbs)	(gallons)	SARA 304 R (Ibs)	(gallons)
sodium azide		0.05	Yes.	(1 03) 500	-	1000	(ganons) -
SARA 304 RQ	2000000 lbs / 90						
SARA 311/312	2000000 100 / 00	oooo ng					
Classification	Not applicable.						
Composition/information on in No products were found.	gredients						
State regulations							
Massachusetts	None of the com	ponents are lis	sted.				
New York	None of the components are listed.						
New Jersey	None of the components are listed.						
Pennsylvania	None of the components are listed.						
International regulations							
Chemical Weapon Convention	List Schedules I,	II & III Chemic	als				
Not listed.							
Montreal Protocol							
Not listed.							
Stockholm Convention on Pers	sistent Organic Po	ollutants					
Not listed.	-						
Rotterdam Convention on Prior	r Informed Conse	nt (PIC)					
Not listed.							
UNECE Aarhus Protocol on PO	Ps and Heavy Me	<u>tals</u>					
Not listed.							
Inventory list							
United States	Not determined.						
Europe	Not determined.						
Canada inventory	Not determined.						



Section 16. Other information

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



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classi	fication Justification
Not classified.	
History	
Date of printing	4/28/2020
Date of issue/Date of revision	9/26/2019
Date of previous issue	12/6/2016
Version	2
	sds_author@cytiva.com
Key to abbreviations	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available UN = United Nations
References	Not available.
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Indicates information that has changed from previously issued version.

Notice to reader

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