

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/25/2023

Reviewed on 11/25/2023

· Product Identifier

Trade Name: MagReSyn[®] Streptavidin

· Product Number:

MR-STV002 (2 ml); MR-STV005 (5 ml); MR-STV010 (2 x 5 ml); MR-STM002 (2 ml); MR-STM005 (5 ml); MR-STM010 (2 x 5 ml); MR-STP002 (2 ml); MR-STP005 (5 ml); MR-STP010 (2 x 5 ml)

- Relevant identified uses of the substance or mixture and uses advised against:
- Product Description:

MagReSyn[®] microparticles with immobilized Streptavidin suspended in an aqueous solution. The product is intended for biomolecule or chemical ligand immobilization for a variety of subsequent end-user applications in research and development. This product is for research and development use only. It is not intended for any animal or human therapeutic or diagnostic use unless otherwise stated.

• Details of the Supplier of the Safety Data Sheet:

Manufacturer/Supplier:

ReSyn Biosciences Pty Ltd Building 20 CSIR Meiring Naude Road Brummeria Pretoria South Africa 0184 +27128414153 **Emergency telephone number:** +2712 841 4153

2 Hazard(s) Identification

· Classification of the substance or mixture:

The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.



Skin Irritation 2	H315 Causes skin irritation.
Specific Target Organ Toxicity - Single Exposure 3	H335 May cause respiratory irritation.
Eye Irritation 2B	H320 Causes eye irritation.

· Label elements:

· Hazard pictograms:



- · Signal word: Warning
- Hazard statements:

H315+H320 Causes skin and eye irritation.

H335 May cause respiratory irritation.

· Precautionary statements:

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264+P265	Wash thoroughly after handling. Do not touch eyes.
P271	Use only outdoors or in a well-ventilated area.
P302+P352	If on skin: Wash with plenty of water.



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P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses		
	present and easy to do. Continue rinsing.	
P312	Call a poison center/doctor if you feel unwell.	
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P337+P317	If eye irritation persists: Get medical help.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/international	
	regulations.	
Unknown acute tovicity:		

Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

- 0 % of the mixture consists of component(s) of unknown toxicity.
- Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· NFPA ratings (scale 0 - 4)

Health = 1 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 1	Health = 1
FIRE 0	Fire = 0
REACTIVITY 0	Physical Hazard =

· Hazard(s) not otherwise classified (HNOC): None known

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3 Composition/Information on Ingredients

· Chemical characterization: Substance

1,0% MagReSyn[®] Streptavidin Microparticles

Polymer coated magnetic microparticles: (10 mg per ml, no CAS number, consists of 60% magnetite and 40% polymer, polymer is a polyethyleneimine derivative)

Description: Mixture of substances listed below with non-hazardous additions.

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· Dangerous Components:		
26628-22-8 Sodium Azide	≤2.5%	
Acute Toxicity - Oral 2, H300; Acute Toxicity - Dermal 1, H310; H400	-	

Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

- · Description of first aid measures
- General information: If symptoms persist, call a physician.
- After inhalation: In case of unconsciousness place patient stably in the side position for transportation.
- After skin contact:
- Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.



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· After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor. If eye irritation occurs, consult a doctor.

- · After swallowing: Immediately call a doctor.
- · Information for doctor
- Most important symptoms and effects, both acute and delayed: No further relevant information available. • Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Fire-Fighting Measures

· Extinguishing media

· Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No further relevant information.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
- · Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures: Not required.
- Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· PAC-1:		
60-00-4	Edetic acid	4.1 mg/m ³
26628-22-8	Sodium Azide	0.026 mg/m³
· PAC-2:		
60-00-4	Edetic acid	45 mg/m³
26628-22-8	Sodium Azide	0.29 mg/m³
· PAC-3:		
60-00-4	Edetic acid	200 mg/m³
26628-22-8	Sodium Azide	5.3 mg/m³
7 Handling and Storage		

· Handling

· Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

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- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

· Additional information about design of technical systems: No further data; see section 7.

· Control parameters:

· Components with occupational exposure limits:

26628-22-8 Sodium Azide

- REL Ceiling limit value: 0.3** mg/m³, 0.1* ppm *as HN3; **as NaN3; Skin
- TLV Ceiling limit value: 0.29** mg/m³, 0.11* ppm *as HN3 vapor **as NaN3
- Additional information: The lists that were valid during the creation of this SDS were used as basis.

• Exposure controls:

- Personal protective equipment
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

- Avoid contact with the eyes and skin.
- · Breathing equipment: Not required.
- Protection of hands:



Protective gloves

• Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection:



Tightly sealed goggles

· Limitation and supervision of exposure into the environment: None



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Information on basic physical and ch General Information	emical properties
Appearance: Form: Color: Odor: Odor threshold:	Suspension Black Slight Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Not determined. ≥100 °C (≥212 °F)
Flash point:	None
Flammability (solid, gaseous):	Not applicable.
Auto igniting:	Not applicable
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper:	Not determined. Not determined.
Vapor pressure @ 20 °C (68 °F):	≤23 hPa (≤17.3 mm Hg)
Density @ 20 °C (68 °F): Relative density: Vapor density: Evaporation rate:	≥1.0037-≤1.0101 g/cm³ (≥8.3759-≤8.4293 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with: Water:	Miscible
Partition coefficient (n-octanol/water)	: Not determined.
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content: VOC content:	0.00 %
Solids content:	1.0 %
Other information:	No further relevant information available.

· Reactivity: No further relevant information available.

· Chemical stability: Product is stable under normal conditions.

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.



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- · Conditions to avoid: No further relevant information available.
- · *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

1 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

26628-22-8 Sodium Azide

Oral LD50 27 mg/kg (Rat)

Dermal LD50 20 mg/kg (rabbit)

· Primary irritant effect:

- On the skin: Irritant to skin and mucous membranes.
- · On the eye: Irritating effect.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- · Carcinogenic categories:
- IARC (International Agency for Research on Cancer): Substance is not listed.

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

None of the ingredients are listed.

• **OSHA-Ca (Occupational Safety & Health Administration):** None of the ingredients are listed.

None of the ingredients are listed.

2 Ecological Information

- · Toxicity:
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment:
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

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Disposal Considerations

· Waste treatment methods

- · Recommendation:
- Observe all federal, state and local environmental regulations when disposing of this material.
- · Uncleaned packaging
- · **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

Transport Information

- · UN-Number:
- · DOT, ADR/ADN, IMDG, IATA
- UN proper shipping name:
- · DOT, ADR/ADN, IMDG, IATA
- Transport hazard class(es):
- · DOT, ADR/ADN, ADN, IMDG, IATA
- · Class:
- · Packing group:
- · DOT, ADR/ADN, IMDG, IATA
- · Environmental hazards:
- Special precautions for user:

- Not applicable.
 - Not applicable.
- · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: UN "Model Regulation":
 - Not applicable. Non-Regulated Material

Non-Regulated Material

Non-Regulated Material

Non-Regulated Material

Non-Regulated Material

5 Regulatory Information

- Safety, health and environmental regulations/legislation specific for the substance or mixture: No further relevant information available.
- · SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances):
- 26628-22-8 Sodium Azide
- · Section 313 (Specific toxic chemical listings):
- 26628-22-8 Sodium Azide
- TSCA (Toxic Substances Control Act):
- All components have the value ACTIVE.
- · Hazardous Air Pollutants
- None of the ingredients are listed.
- · California Proposition 65:
- · Chemicals known to cause cancer:
- None of the ingredients are listed.
- · Chemicals known to cause reproductive toxicity for females:
- None of the ingredients are listed.
- · Chemicals known to cause reproductive toxicity for males:
- None of the ingredients are listed.

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Trade	Name:	MagReS	vn® Stre	ptavidin
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None of the	ingredients are listed.	
New Jersey	<pre>rRight-to-Know List:</pre>	
60-00-4	Edetic acid	
7558-79-4	Sodium Phosphate, dibasic	
26628-22-8	Sodium Azide	
New Jersey	Special Hazardous Substance List:	
26628-22-8	Sodium Azide	R
Pennsylvar	nia Right-to-Know List:	
60-00-4	Edetic acid	
7558-79-4	Sodium Phosphate, dibasic	
26628-22-8	Sodium Azide	
Pennsylvar	nia Special Hazardous Substance List:	
60-00-4	Edetic acid	
7558-79-4	Sodium Phosphate, dibasic	E
26628-22-8	Sodium Azide	1
	nic categories:	

None of the ingredients are listed.

• TLV (Threshold Limit Value established by ACGIH):

26628-22-8 Sodium Azide

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



· Signal word: Warning

· Hazard statements:

H315+H320 Causes skin and eye irritation.

May cause respiratory irritation. H335

· Precautionary statements

1	Precautionary statements:				
	P261	Avoid breathing dust/fume/gas/mist/vapors/spray.			
	P264+P265	Wash thoroughly after handling. Do not touch eyes.			
	P271	Use only outdoors or in a well-ventilated area.			
	P302+P352	If on skin: Wash with plenty of water.			
	P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
	P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if				
		present and easy to do. Continue rinsing.			
	P312	Call a poison center/doctor if you feel unwell.			
	P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).			
	P362+P364	Take off contaminated clothing and wash it before reuse.			
	D337+D313	If skin irritation occurs: Get medical advice/attention			

P332+P313 If skin irritation occurs: Get medical advice/attention. A4



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Trade Name: MagReSyn® Streptavidin

P337+P317	If eye irritation persists: Get medical help.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

6 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Contact:

• Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety & Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Toxicity - Oral 2: Acute toxicity - Category 2 Acute Toxicity - Dermal 1: Acute toxicity – Category 1 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2B: Serious eye damage/eye irritation - Category 2B Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 * * Data compared to the previous version altered. www.msdsauthoring.com +1-877-204-9106 SDS created by MSDS Authoring Services