Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07.

Date of issue: 09/05/2025 *Reviewed on 09/05/2025*

*

1 Identification

· **Product identifier**

· **Trade name: MagReSyn® Protein G**
· **Other means of identification**

· **Product number:** MR-PRG002 (2 ml); MR-PRG005 (5 ml); MR-PRG010 (2 x 5 ml)
· **Product Description:**
MagReSyn® microparticles with immobilized Protein G suspended in an aqueous solution. The product is intended for biomolecule (specifically antibody) immobilization for a variety of subsequent end-user applications in research and development. This product is for research and development use only.
· **Uses advised against**
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
+2763 358 5538
· **Emergency telephone number:** +2763 358 5538

2 Hazard(s) identification

· **Classification of the substance or mixture**



GHS07

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**
· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS07

· **Signal word** Warning
· **Hazard statements**
Causes skin and eye irritation.
May cause respiratory irritation.
· **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves.

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If on skin: Wash with plenty of water.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a poison center/doctor if you feel unwell.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***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.

· ***Information pertaining to particular dangers for man and environment:***

· ***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
Fire = 0
Reactivity = 0

· ***Other hazards***

· ***Results of PBT and vPvB assessment***

· ***PBT:*** *Not applicable.*

· ***vPvB:*** *Not applicable.*

· ***Classification according to (d)(1)(ii) of § 1910.1200***
The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· ***Hazards not otherwise classified (HNOC)***
There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

*
3 Composition/information on ingredients

· ***Chemical characterization: Mixtures***
1,5% MagReSyn® Protein G Microparticles
Polymer coated magnetic microparticles: (15 mg per ml, no CAS number, consists of 60% magnetite and 40% polymer, polymer is a polyethyleneimine derivative)

· ***Description:***
Mixture of substances listed with non-hazardous additions and/or components that are present at concentrations below regulatory threshold for classification and reporting. All non-hazardous components, components listed under the threshold, and listed components total 100%.

· ***Dangerous components:*** *Non-Regulated Material*

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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 side position for transportation.*
· ***After skin contact:***
If skin irritation occurs, consult a doctor.
Wash with plenty of water and soap.
· ***After eye contact:***
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
If eye irritation occurs, consult a doctor.
If easy to do so, remove contact lenses if worn.
· ***After swallowing:*** *If swallowed and symptoms occur, consult a 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*** *Treat symptomatically.*

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***
· ***Protective equipment:***
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 (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· ***Protective Action Criteria for Chemicals***
Protective Action Criteria (PACs) are essential components for planning and response to uncontrolled releases of hazardous chemicals.
· ***PAC-1:***
PAC 1: Mild, transient health effects.

77-86-1	Tris(hydroxymethyl)aminomethane	18 mg/m³
26628-22-8	Sodium Azide	0.026 mg/m³

· ***PAC-2:***
PAC 2: Irreversible or other serious health effects that could impair the ability to take protective action.

77-86-1	Tris(hydroxymethyl)aminomethane	190 mg/m³
26628-22-8	Sodium Azide	0.29 mg/m³

· ***PAC-3:***
PAC 3: Life-threatening health effects.

77-86-1	Tris(hydroxymethyl)aminomethane	1,200 mg/m³

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26628-22-8	Sodium Azide	8.8 mg/m3

· **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.

7 Handling and storage

· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **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

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls**
Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.
· **Appropriate engineering controls** No further data; see section 7.
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· **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 can not 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 found out by the manufacturer of the protective gloves and has to be observed.

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· ***Eye protection:***



Tightly sealed goggles

· ***Limitation and supervision of exposure into the environment*** *None*

* 9 Physical and chemical properties

· ***Information on basic physical and chemical properties***
· ***General Information***

· ***Physical state***	*Liquid*
· ***Color:***	*Black*
· ***Odor:***	*Slight*
· ***Odor threshold:***	*Not determined.*
· ***Melting point/Melting range:***	*0 °C (32 °F)*
· ***Boiling point/Boiling range:***	*Undetermined.*
· ***Flammability:***	*Not applicable.*
· ***Explosion limits:***	
· ***Lower:***	*Not determined.*
· ***Upper:***	*Not determined.*
· ***Flash point:***	*Not applicable.*
· ***Decomposition temperature:***	*Not determined.*
· ***pH-value:***	*Not determined.*
· ***Viscosity:***	
· ***Kinematic:***	*Not determined.*
· ***Dynamic at 20 °C (68 °F):***	*0.952 mPas*
· ***Solubility in / Miscibility with***	
· ***Water:***	*Fully miscible.*
· ***Partition coefficient (n-octanol/water):***	*Not determined.*
· ***Vapor pressure at 20 °C (68 °F):***	*23 hPa (17.3 mm Hg)*
· ***Density at 20 °C (68 °F):***	*1.0099 g/cm³ (8.42762 lbs/gal)*
· ***Relative density***	*Not determined.*
· ***Vapor density***	*Not determined.*
· ***Particle characteristics***	*Not applicable.*

· ***Other information***

· ***Appearance:***	
· ***Form:***	*Suspension*
· ***Important information on protection of health and environment, and on safety.***	
· ***Ignition temperature:***	*Product is not self-igniting.*
· ***Danger of explosion:***	*Product does not present an explosion hazard.*
· ***Solvent content:***	
· ***VOC content:***	*0.00 %* *0.0 g/l / 0.00 lb/gal*
· ***Solids content:***	*1.5 %*
· ***Change in condition***	
· ***Oxidizing properties***	*None*
· ***Evaporation rate***	*Not determined.*

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10 Stability and reactivity

· ***Reactivity***
The product is stable under normal conditions.
No further relevant information available.
· ***Chemical stability*** *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.*
· ***Conditions to avoid*** *No further relevant information available.*
· ***Incompatible materials:*** *No further relevant information available.*
· ***Hazardous decomposition products:*** *No dangerous decomposition products known.*

11 Toxicological information

· ***Information on toxicological effects***
· ***Acute toxicity:***
· ***LD/LC50 values that are relevant for classification:*** *No data available.*
· ***Primary irritant effect:***
· ***on the skin:*** *Irritant to skin and mucous membranes.*
· ***on the eye:*** *Irritating effect.*
· ***Sensitization:*** *No sensitizing effects known.*
· ***Additional toxicological information:***
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
· ***Interactive effects*** *No interactive effects between components are known.*

· ***Carcinogenic categories***

· ***IARC (International Agency for Research on Cancer)***
None of the ingredients is listed.

· ***NTP (National Toxicology Program)***
None of the ingredients is listed.

· ***OSHA-Ca (Occupational Safety & Health Administration)***
None of the ingredients is listed.

· ***Alternative sources for toxicological information*** *No non-standard sources for toxicological information were used.*

12 Ecological information

· ***Toxicity***
· ***Aquatic toxicity:*** *No further relevant information available.*
· ***Persistence and degradability*** *No further relevant information available.*
· ***Bioaccumulative potential*** *No further relevant information available.*
· ***Mobility in soil*** *No further relevant information available.*
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*
· ***Other adverse effects***
· ***Additional ecological information:***
· ***General notes:*** *Not hazardous for water.*

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13 Disposal considerations

· ***Waste treatment methods***
· ***Recommendation:***
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Observe all federal, state and local environmental regulations when disposing of this material.

· ***Uncleaned packagings:***
· ***Recommendation:*** *Disposal must be made according to official regulations.*
· ***Recommended cleansing agent:*** *Water, if necessary with cleansing agents.*

14 Transport information

· ***UN-Number***
· ***DOT, IMDG, IATA*** *Non-Regulated Material*
· ***UN proper shipping name***
· ***DOT, IMDG, IATA*** *Non-Regulated Material*
· ***Transport hazard class(es)***

· ***DOT, ADN, IMDG, IATA***
· ***Class*** *Non-Regulated Material*
· ***Packing group***
· ***DOT, IMDG, IATA*** *Non-Regulated Material*
· ***Environmental hazards:*** *Not applicable.*
· ***Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code*** *Not applicable.*
· ***Special precautions for user*** *Not applicable.*
· ***UN "Model Regulation":*** *Non-Regulated Material*

* 15 Regulatory information

· ***Safety, health and environmental regulations/legislation specific for the substance or mixture***
No further relevant information available.
· ***Sara***

· ***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 is listed.

· ***Proposition 65***

· ***Chemicals known to cause cancer:***
None of the ingredients is listed.

· ***Chemicals known to cause reproductive toxicity for females:***
None of the ingredients is listed.

· ***Chemicals known to cause reproductive toxicity for males:***
None of the ingredients is listed.

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· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **New Jersey Right-to-Know List:**		
26628-22-8	Sodium Azide	

· **New Jersey Special Hazardous Substance List:**		
26628-22-8	Sodium Azide	R3

· **Pennsylvania Right-to-Know List:**	
26628-22-8	Sodium Azide

· **Pennsylvania Special Hazardous Substance List:**		
26628-22-8	Sodium Azide	E

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value)**		
26628-22-8	Sodium Azide	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS07

· **Signal word** Warning
· **Hazard statements**
Causes skin and eye irritation.
May cause respiratory irritation.
· **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves.
If on skin: Wash with plenty of water.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a poison center/doctor if you feel unwell.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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16 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.

· ***SDS created by:*** *Access GHS, LLC - 888-363-4870 - Team@access-ghs-sds.com*
· ***Date of previous version*** *11/17/2021*
· ***Version number of previous version:*** *2*
· ***Date of preparation*** *09/05/2025*
· ***Abbreviations and acronyms:***
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
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
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
· **** Data compared to the previous version altered.***