

Safety Data Sheet

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

Date of issue: 08/20/2025

Reviewed on 08/20/2025

* 1 Identification

· Product identifier

· Trade name: **Mag-Net™ Protein Binding Buffer**

· Other means of identification

· Product Description: Protein binding buffer for use in Mag-Net™ Kit

· Application of the substance / the mixture

Buffer solution to promote protein binding/enrichment used in Mag-Net™ Kit. This product is for research and development use only.

· 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



GHS02 Flame

Flammable liquids 2 H225 Highly flammable liquid and vapor.



GHS07

Eye irritation 2A H319 Causes serious eye irritation.

Sensitization - skin 1 H317 May cause an allergic skin reaction.

· Label elements

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

· Hazard pictograms



GHS02 GHS07

· Signal word Danger

· Hazard-determining components of labeling:

2-methyl-2H-isothiazol-3-one

· Hazard statements

Highly flammable liquid and vapor.

Causes serious eye irritation.

May cause an allergic skin reaction.

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Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground / bond container and receiving equipment.
Use explosion-proof [electrical/ventilating/lighting] equipment.
Use non-sparking tools.
Take action to prevent static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
If eye irritation persists: Get medical advice/attention.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep cool.
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 = 2
Fire = 3
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 2
Fire = 3
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**Description:** Mixture of the substances listed below with nonhazardous additions.

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· Dangerous components:		
	Trade Secret ⚠ Flammable liquids 2, H225; ⚠ Acute toxicity - oral 4, H302; Acute toxicity - dermal 4, H312; Acute toxicity - inhalation 4, H332; Eye irritation 2A, H319	15–40%
2682-20-4	2-methyl-2H-isothiazol-3-one ⚠ Acute toxicity - oral 3, H301; Acute toxicity - dermal 3, H311; Acute toxicity - inhalation 2, H330; ⚠ Skin corrosion 1B, H314; Eye damage 1, H318; ⚠ Sensitization - skin 1A, H317 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %	≥0.0015–<0.1%

* 4 First-aid measures

· **Description of first aid measures**

· **General information:** If symptoms persist, call a physician.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· **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:**

Rinse mouth out with water.

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.

· **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**

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

· **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**

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers / surface or ground water.

· **Methods and material for containment and cleaning up:**

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

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*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.*

Trade Secret	13 ppm
Proprietary buffer salt	30 mg/m ³

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

Trade Secret	50 ppm
Proprietary buffer salt	330 mg/m ³

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

Trade Secret	150 ppm
Proprietary buffer salt	2,000 mg/m ³

· 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*Use standard laboratory good practices.**Ensure good ventilation/exhaustion at the workplace.**Prevent formation of aerosols.***· Information about protection against explosions and fires:***Keep ignition sources away - Do not smoke.**Protect against electrostatic charges.***· Conditions for safe storage, including any incompatibilities****· Storage:****· Requirements to be met by storerooms and receptacles:***Store in a cool location.**Keep container tightly closed.***· Information about storage in one common storage facility: Not required.****· Further information about storage conditions:***Keep receptacle tightly sealed.**Store in cool, dry conditions in well sealed receptacles.***· Storage class: Class 3 Flammable Liquids****· 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 following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.**At this time, the remaining constituent has no known exposure limits.*

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Trade Secret	
PEL	Long-term value: 70 mg/m ³ , 40 ppm
REL	Long-term value: 34 mg/m ³ , 20 ppm
TLV	Long-term value: 33 mg/m ³ , 20 ppm Skin, A4

Regulatory information

PEL: Guide to Occupational Exposure Values (OSHA PELs)

REL: Guide to Occupational Exposure Values (NIOSH RELs)

TLV: Guide to Occupational Exposure Values (TLV)

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.

Eye protection:



Tightly sealed goggles

Body protection:



Lab coat

Limitation and supervision of exposure into the environment None

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* 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Physical state

Liquid

· Color:

Clear

· Odor:

Slight

· Odor threshold:

Not determined.

· Melting point/Melting range:

Undetermined.

· Boiling point/Boiling range:

81.6 °C (178.9 °F)

· Flammability:

Highly flammable.

· Explosion limits:

· Lower:

3.5 Vol %

· Upper:

15 Vol %

· Flash point:

2.6 °C (36.7 °F)

· Auto igniting:

525 °C (977 °F)

· Decomposition temperature:

Not determined.

· pH-value:

Not determined.

· Viscosity:

· Kinematic:

Not determined.

· Dynamic:

Not determined.

· Solubility in / Miscibility with

· Water:

Fully miscible.

· Partition coefficient (n-octanol/water):

Not determined.

· Vapor pressure at 20 °C (68 °F):

97 hPa (72.8 mm Hg)

· Density at 20 °C (68 °F):

0.786 g/cm³ (6.55917 lbs/gal)

· Relative density

Not determined.

· Bulk density:

217–2,816 kg/m³

· 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 is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Solvent content:

· VOC content:

0.00 %

0.0 g/l / 0.00 lb/gal

· Change in condition

· Oxidizing properties

None

· Evaporation rate

Not determined.

* 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.

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- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid**
Heat, flame and ignition sources.
High temperature and direct sunlight
- **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:****ATE (Acute Toxicity Estimate)**

Oral	LD50	6,825 mg/kg (Rat)
Dermal	LD50	3,125 mg/kg (Rabbit)
Inhalative	LC50/4 h	27.5 mg/l

Trade Secret

Oral	LD50	2,730 mg/kg (Rat)
Dermal	LD50	1,250 mg/kg (Rabbit)

2682-20-4 2-methyl-2H-isothiazol-3-one

Oral	LD50	120 mg/kg (Rat)
Dermal	LD50	242 mg/kg (Rat)
Inhalative	LC50/4 h	0.11 mg/l (Rat)
	LC50/96 hours	4.77 Mg/l (Oncorhynchus mykiss) (OECD Test Guideline 203)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **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:****2682-20-4 2-methyl-2H-isothiazol-3-one**

EC50	0.85 mg/kg (daphnia) (OECD Test Guideline 202)
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- **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:**
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.

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.
- **Waste disposal key:** US EPA RCRA waste code D001 (ignitability characteristic).
- **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**
- **UN proper shipping name**
- **DOT**
- **IMDG**
- **IATA**
- **Transport hazard class(es)**
- **DOT**

UN1993

Flammable liquids, n.o.s.
FLAMMABLE LIQUID, N.O.S.
Flammable liquid, n.o.s.



Limited Quantity

- **Class**
- **Label**

3 Flammable liquids
3

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· IMDG, IATA



Limited Quantity

- **Class** 3 Flammable liquids
- **Label** 3+ID8000
- **Packing group**
- **DOT, IMDG, IATA** II
- **Environmental hazards:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **Transport/Additional information:**
- **DOT**
- **Quantity limitations** On passenger aircraft/rail: 5 L
On cargo aircraft only: 60 L

- **IMDG**
- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
Warning: Flammable liquids
- **Special precautions for user**
- **Hazard identification number (Kemler code):** 33
- **EMS Number:** F-E, S-E
- **Stowage Category** B
- **UN "Model Regulation":** UN 1993 FLAMMABLE LIQUID, N.O.S. 3, II

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):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

Trade Secret

· TSCA (Toxic Substances Control Act):

	Trade Secret	ACTIVE
7647-14-5	SODIUM CHLORIDE	ACTIVE
2682-20-4	2-methyl-2H-isothiazol-3-one	ACTIVE

· Hazardous Air Pollutants

Trade Secret

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· 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.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· New Jersey Right-to-Know List:

Trade Secret

· New Jersey Special Hazardous Substance List:

Trade Secret

F3

· Pennsylvania Right-to-Know List:

Trade Secret

· Pennsylvania Special Hazardous Substance List:

Trade Secret

E

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Trade Secret

CBD, D

· TLV (Threshold Limit Value)

Trade Secret

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



GHS02 GHS07

· Signal word Danger

· Hazard-determining components of labeling:

2-methyl-2H-isothiazol-3-one

· Hazard statements

Highly flammable liquid and vapor.

Causes serious eye irritation.

May cause an allergic skin reaction.

· Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground / bond container and receiving equipment.

Use explosion-proof [electrical/ventilating/lighting] equipment.

Use non-sparking tools.

Take action to prevent static discharge.

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Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Specific treatment (see on this label).

If eye irritation persists: Get medical advice/attention.

In case of fire: Use CO₂, powder or water spray to extinguish.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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** 08/18/2025

· **Date of preparation** 08/20/2025

· **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

Flammable liquids 2: Flammable liquids – Category 2

Acute toxicity - oral 3: Acute toxicity – Category 3

Acute toxicity - oral 4: Acute toxicity – Category 4

Acute toxicity - inhalation 2: Acute toxicity – Category 2

Skin corrosion 1B: Skin corrosion/irritation – Category 1B

Eye damage 1: Serious eye damage/eye irritation – Category 1

Eye irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - skin 1: Skin sensitisation – Category 1

Sensitization - skin 1A: Skin sensitisation – Category 1A

· *** Data compared to the previous version altered.**