

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™ Lysis Buffer**

· Other means of identification

· Product Description: Lysis/solubilization solution for extracellular vesicles

· Application of the substance / the mixture

Lysis and solubilization of extracellular vesicles for protein 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



GHS07

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



GHS07

· Signal word Warning

· Hazard-determining components of labeling:

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

· Hazard statements

May cause an allergic skin reaction.

· Precautionary statements

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

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

Wear protective gloves.

If on skin: Wash with plenty of water.

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).

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

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· **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)**



· **HMIS-ratings (scale 0 - 4)**



· **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 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:**

CAS: 151-21-3 RTECS: WT 1050000	Sodium Dodecyl Sulphate ⚠ Flammable solids 2, H228; ⚠ Eye damage 1, H318; ⚠ Acute toxicity - oral 4, H302; ⚠ Acute toxicity - inhalation 4, H332; ⚠ Skin irritation 2, H315; ⚠ Specific target organ toxicity (single exposure) 3, H335	1%
CAS: 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 and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

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If skin irritation occurs, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water.

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:**

Use fire fighting measures that suit the environment.

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 (NIOSH approved or equivalent) 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** Not required.

· **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).

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.

151-21-3	Sodium Dodecyl Sulphate	3.9 mg/m ³
1185-53-1	Tris, Hydrochloride	12 mg/m ³

· **PAC-2:**

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

151-21-3	Sodium Dodecyl Sulphate	43 mg/m ³
1185-53-1	Tris, Hydrochloride	130 mg/m ³

· **PAC-3:**

PAC 3: Life-threatening health effects.

151-21-3	Sodium Dodecyl Sulphate	260 mg/m ³
1185-53-1	Tris, Hydrochloride	790 mg/m ³

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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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.
- **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:**
Keep container tightly closed.
Store in a cool, dry place.
- **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 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

· Body protection:



Lab coat

· Limitation and supervision of exposure into the environment

Keep away from drains, surface and ground waters.

Avoid release into the environment.

* 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Physical state

Liquid

· Color:

Clear, colorless

· Odor:

Slight

· Odor threshold:

Not determined.

· Melting point/Melting range:

Undetermined.

· 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:

Not determined.

· Solubility in / Miscibility with

· Water:

Fully miscible.

· Partition coefficient (n-octanol/water):

Not determined.

· Vapor pressure:

Not determined.

· Density at 20 °C (68 °F):

≥1.03 g/cm³ (≥8.59535 lbs/gal)

· Relative density

Not determined.

· Vapor density

Not applicable.

· Particle characteristics

Not determined.

· 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

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- **Change in condition**
 - **Oxidizing properties**
 - **Evaporation rate**
- None
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.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Avoid conditions of heat, moisture and 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	128,800 mg/kg (Rat)
Inhalative	LC50/4 h	>390,000 mg/l (Rat)

151-21-3 Sodium Dodecyl Sulphate

Oral	LD50	1,288 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)
Inhalative	LC50/4 h	>3,900 mg/l (Rat)

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:** May cause an allergic skin reaction.
- **on the eye:** No 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.

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

12 Ecological information

· **Toxicity**· **Aquatic toxicity:****151-21-3 Sodium Dodecyl Sulphate**

EC50 5.55 mg/kg (Water flea)

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

EC50 0.85 mg/kg (daphnia) (OECD Test Guideline 202)

· **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.

· **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.

· **Transport/Additional information:**· **IATA**· **Remarks:**

Code: E1

Excepted Quantity Shipment

Code Maximum Quantity (inner package)

Maximum Quantity per

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outer package

E0 Not permitted

Not permitted

E1 30g / 30ml

1Kg / 1L

E2 30g / 30ml

500g / 500ml

E3 30g / 30ml

300g / 300ml

E4 1g / 1ml

500g / 500ml

E5 1g / 1ml

300g / 300ml

· **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):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **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.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **New Jersey Right-to-Know List:**

None of the ingredients is listed.

· **New Jersey Special Hazardous Substance List:**

None of the ingredients is listed.

· **Pennsylvania Right-to-Know List:**

None of the ingredients is listed.

· **Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed.

· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

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· **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-determining components of labeling:**

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

· **Hazard statements**

May cause an allergic skin reaction.

· **Precautionary statements**

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

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

Wear protective gloves.

If on skin: Wash with plenty of water.

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).

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 solids 2: Flammable solids – Category 2

Acute toxicity - oral 3: Acute toxicity – Category 3

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Acute toxicity - oral 4: Acute toxicity – Category 4

Acute toxicity - inhalation 2: Acute toxicity – Category 2

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

Skin irritation 2: Skin corrosion/irritation – Category 2

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

Sensitization - skin 1: Skin sensitisation – Category 1

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

Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3

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