

Biosense Laboratories AS
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MATERIAL SAFETY DATA SHEET

Prod. No.: V01018401/Fathead minnow vitellogenin ELISA-kit

Hazards identified with these products are those associated with the following components. Refer to the material safety data sheets for listed items.

Component name:

Microplate coated with anti-Vitellogenin antibodies, Monoclonal antibodies
Phosphate Buffered Saline / Casein Block and Diluent – 5x Concentrate
Phosphate buffered saline (PBS) with Tween 20
Detecting antibody; anti -vitellogenin antibody
Secondary antibody; Goat anti-Rabbit (GAR) antibody
TMB One Component HRP Microwell Substrate
Purified, lyophilized Vitellogenin

Multiple component spill or leak procedures

Steps to be taken if material is released or spilled

Evacuate area
Wear self-contained breathing apparatus, chemical safety goggles, rubber boots and heavy rubber gloves
Sweep up, place in bag and hold for waste disposal. Avoid raising dust
Ventilate area and wash spill site after material pickup is complete.

Waste disposal method

Contact licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with afterburner and scrubber. Observe all federal, state and local environmental regulations.

Label precautionary statements

Harmful by inhalation and contact with skin.
Toxic if swallowed.
Irritating to eyes.
Limited evidence of carcinogenic effect.
May cause sensitization by skin contact
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of irreversible effects.
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
In case of skin contact, flush with copious amounts of water for at least 15 minutes.
Remove contaminated clothing and shoes. Call a physician

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes.

Assure adequate flushing by separating eyelids with finger. Call a physician. If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

Details of the supplier of the safety data sheet

Company: Biosense Laboratories AS
Thormøhlensgt. 55
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Telephone: +47 55543966
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Emergency telephone number: Giftinformasjonssentralen +(47)-22591300

Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent an guarantee of the properties of the product. Biosense Laboratories AS shall not be held liable for any damage resulting from handling or from contact with the above product.

Version 5: 11.03.2020

Superseeds version 4: SIK 23.01.2019

Revision date:11.03.2020

Reason for Revision; Revised according to regulation (EC) No. 1907/2006

SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006

Revision date 11.03.2020

1. Identification of substance/mixture and of the company/undertaking

1.1 Product name: Microplate coated with anti-Vitellogenin antibodies, Monoclonal antibodies.

1.2 Intended use: Determination of Vitellogenin in samples.

Restrictions on Use: For research use only.

1.3 Details of the supplier of the safety data sheet

Company: Biosense Laboratories AS

Thormøhlensgt. 55

N-5006 Bergen

Norway

Telephone: +47 55543966

e-mail: biosense@biosense.com

1.4 Emergency telephone number: Giftinformasjonssentralen +(47)-22591300

2. Hazards identification

2.1 Classification of substance or mixture: Not a hazardous mixture

2.2 GHS Label Elements, Including precautionary statements: Not applicable

2.3 Other hazards: None known

2.4 Unknown acute toxicity: None known

3. Composition/information on ingredients

3.2 Mixtures *Contains no hazardous ingredients at levels requiring disclosure by the OSHA Hazard Communication Standard (29 CFR 1910.1200), however it contains minor amounts of materials considered hazardous. We recommend handling all substances with caution.*

4. First aid measures

4.1 Description of first aid measures

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

If inhaled

Move to fresh air; get medical attention if symptoms occur; if person not breathing, give artificial respiration and consult a physician..

In case of skin contact

Wash with soap and water; remove contaminated clothes and shoes; consult a physician..

In case of eye contact

Wash thoroughly with plenty of water for at least 15 min.; remove contact lenses if present and easy-to-do; consult a physician.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

General advice Consult a physician. Get medical attention if you feel unwell; show this data sheet to the doctor in attendance

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available. Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media Use an extinguishing agent that are suitable for the surrounding fire

5.2 Special hazards arising from the substance or mixture

None known

5.3 Advice for fire fighters Wear self-contained breathing apparatus for fire fighting if necessary.

5.4 Further information No data available

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation; avoid breathing dust, vapours, mist or gas; wear lab coat, safety goggles, suitable protection gloves and booths; wash hands before and after use. Evacuate personel to safe areas.

6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.

6.3 Methods and material for containment and cleaning up

Use appropriate tools to put the spilled material into a convenient waste disposal container without creating dust; keep contains closed for disposal;

6.4 Reference to other sections For information on safe handling: see section 7.

For information on personal protection: see section 8.

For disposal: see section 13

7. Handling and storage

7.1 Precautions for safe handling Avoid inhalation of vapors and contact with skin and eyes. Wear appropriate personal protective equipment. Do not eat, drink or smoke in work area.

7.2 Conditions for safe storage, including incompatibilities

Store in a cool place in a tightly closed container.

7.3 Specific end use(s)

Recommended storage temperature 2-8
Laboratory chemical. No other use stipulated

8. Exposure controls/personal protection**8.1 Control parameters**

No data available

8.2 Exposure control**Appropriate engineering controls**

Provide adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Personal protective equipment

Gloves. Protective goggles.



Eye/face protection

Wear safety goggles (EN 166)

Skin protection

Use proper lab gloves; gloves must be inspected prior to use. The selected gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it

Body protection

Wear lab coat or other impervious clothes; type of protection equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

If necessary, use dust respirator tested and approved under appropriate government standards such as (NIOSH (USA) or CEN (EU)

Control of environmental exposure

Prevent further leakage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance

Form: Solid, dry.

Odour

No data available

Odour threshold

No data available

pH

No data available

Melting point/freezing point

No data available

Initial boiling point and boiling range

No data available

Flash point

No data available

Evaporation rate

No data available

Flammability (Solid, gas)

No data available

Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	Completely soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other information

No further information

10. Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available. In case of fire: see section 5.

11. Toxicological information

11.1 Information on toxicological effects

Mixtures

Acute toxicity

No data available

Inhalation:

No data available

Ingestion:

No data available

Skin contact:

Irritant to skin and mucous membranes

Serious eye damage/eye irritation

May cause eye irritation in susceptible persons

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed a human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available

Aspiration hazard

No data available

12. Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

13. Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Avoid disposing large volumes in sewer.

Contaminated packaging

All waste must be handled and disposed according to local, state and federal regulations. Refer to section 7 and 8 for safe handling guidance.

14. Transport information

14.1 UN-number

Not regulated

14.1 UN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3 Transport hazard class(es)

No data available

14.4 Packaging group

No data available

14.5 Environmental hazards

No data available

14.6 Special precautions for user

No data available

15. Regulatory information

To the best of our knowledge, this product contains no substances which, at their given concentration, are considered hazardous by other regulatory agencies. Refer to section 3

16. Other information

Full text of H-statements referred to under sections 2 and 3.

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Precaution and disclaimer: for laboratory use only; not for drug, household, or any other use

Version 5: 11.03.2020

Supersedes version 4: SIK 23.01.2019

Revision date:11.03.2020

Reason for Revision; Revised according to regulation (EC) No. 1907/2006

SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006

Revision date 11.03.2020

1. Identification of substance/mixture and of the company/undertaking

1.1 Product name: Phosphate Buffered Saline / Casein Block and Diluent – 5x Concentrate

1.2 Intended use: For laboratory use

1.3 Details of the supplier of the safety data sheet

Company: Biosense Laboratories AS
Thormøhlensgt. 55
N-5006 Bergen
Norway

Telephone: +47 55543966

e-mail: biosense@biosense.com

1.4 Emergency telephone number: Giftinformasjonssentralen +(47)-22591300

2. Hazards identification

2.1 Classification of substance or mixture: Not classified

2.2 GHS Label Elements, Including precautionary statements: No labelling applicable

2.3 Other hazards: No data available

2.4 Unknown acute toxicity: No data available

3. Composition/information on ingredients

3.1 Substance

Not applicable

3.2 Mixtures

Contains no hazardous ingredients at level requiring disclosure by the OSHA Communication Standard (29 CFR 1910.1200)

4. First aid measures

4.1 Description of first aid measures

First-aid measures general

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible)

If inhaled

Move to fresh air and keep at rest in a position comfortable for breathing.

In case of skin contact

Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, call a physician.

In case of eye contact

Flush eyes with plenty of water for at least 15 minutes. Obtain medical

	attention if pain, blinking or redness persists.
In case of ingestion	Call a poison center / doctor / Physician if you feel unwell.
4.2 Most important symptoms and effects, both acute and delayed	
Symptoms/injuries	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after inhalation	May cause respiratory irritation
Symptoms/injuries after skin contact	May cause skin irritation
Symptoms/injuries after eye contact	May cause slight temporary irritation
Symptoms/injuries after ingestion	May cause gastrointestinal irritation
Chronic symptoms	No data available
4.3 Indication of any immediate medical attention and special treatment needed	No additional information available

5. Firefighting measures

5.1 Extinguishing media	Use water spray, Foam, Dry Powder, Carbon Dioxide, Sand
5.2 Special hazards arising from the substance or mixture	
Fire hazard	No data available
Explosion hazard	Product is not explosive
Reactivity	No dangerous reaction known under normal conditions of use.
5.3 Advice for fire fighters	
Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose fire fighting water in the environment.
Protection during fire fighting	Do not enter area without proper protective equipment, including respiratory protection

6. Accidental release measures



6.1 Personal precautions, protective equipment and emergency procedures	
General measures	No specific emergency measures are required other than good laboratory hygiene and safety practices.
6.1.1 For non-emergency personnel	
Protective equipment	Wear protective equipment as described in section 8.
Emergency procedures	Evacuate unnecessary personnel
6.1.2 For emergency responders	
Protective equipment	Wear suitable protective clothing, gloves and eye or face protection. Approved supplied air respirator, in case of emergency

6.2 Environmental precautions	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3 Methods and material for containment and cleaning up	
For containment	Contain any spills with dikes or absorbents to prevent migration or entry into sewers or streams.
Methods for cleaning up	Place in a suitable container for disposal in accordance with waste regulations (see section 13). Wash spill area thoroughly with plenty of soap and water
6.4 Reference to other sections	Refer to protective measures listed in section 8 and 13

7. Handling and storage

7.1 Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Use appropriate personal protection equipment (PPE). Keep away from sources of ignition – No smoking. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2 Conditions for safe storage, including incompatibilities	Keep containers tightly sealed in a dry, cool, well ventilated place. Avoid elevated temperatures. Store at 2-8 C
7.3 Specific end use(s)	No additional information available

8. Exposure controls/personal protection

8.1 Control parameters	
No data available	
8.2 Exposure control	
Appropriate engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Personal protective equipment	Gloves. Protective goggles.
Eye/ face protection	 Chemical goggles or safety glasses.
Hand protection	 Use gloves resistant to this material when prolonged or repeated contact could occur. Gloves should be classified

	under standard EN 374 or ASTM F1296. Suggested glove materials are: Natural rubber (latex), Neoprene, Nitrile/butadiene rubber, Polyethylene, ethyl vinyl alcohol laminate, PVC or vinyl.
Skin and Body protection	Wear suitable protective clothing. Wear long sleeves.
Respiratory protection	Where excessive vapor, mist, or dust may result, use NIOSH approved respiratory protection equipment.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Colorless to pale yellow liquid
Color	Clear to yellow
Odor	Odorless
Odour threshold	No data available
pH	Neutral
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (Solid, gas)	Not flammable
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility	Complete solubility in water
Partition coefficient: n-octanol/ water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not data available
Explosive properties	Product is not explosive
Oxidizing properties	Not an oxidizer

9.2 Other information

No further information

10. Stability and reactivity

10.1 Reactivity

No dangerous reactions known under normal conditions of use

10.2 Chemical stability

Stable under recommended handling and storage conditions

10.3 Possibility of hazardous reactions

None known

10.4 Conditions to avoid

Elevated temperatures

10.5 Incompatible materials

Strong oxidizing reagents. Metals.

10.6 Hazardous decomposition products

Hazardous fumes of nitrous oxides(NOx), carbon oxides, sulfur oxides, phosphorous

oxides, and metal oxides.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity	Not classified
Skin corrosion/irritation	Not classified
	pH neutral
Serious eye damage/irritation	Not classified
	pH neutral
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity	Not classified
Aspiration hazard	Not classified
Symptoms/injuries after inhalation	May cause respiratory irritation
Symptoms/injuries after skin contact	May cause skin irritation
Symptoms/injuries after eye contact	May cause slight temporary irritation
Symptoms/injuries after ingestion	May cause gastrointestinal irritation
Chronic symptoms	No data available

12. Ecological information

12.1 Toxicity

Ecology - general No data available

12.2 Persistence and degradability

No additional information available

12.3 Bioaccumulative potential

No additional information available

12.4 Mobility in soil

No additional information available

12.5 Other adverse effects

No additional information available

13. Disposal considerations

13.1 Waste treatment methods

Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

14. Transport information

On accordance with DOT	Not hazardous for transport
Additional information	No supplementary information available
Transport by sea	No additional information available
Air transport	No additional information available

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

No additional data available.

This datasheet complies with the requirements of Regulation (EC) No. 1907/2006

16. Other information

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Version 5: 11.03.2020

Supersedes version 4: SIK 23.01.2019

Revision date:11.03.2020

Reason for Revision; Revised according to regulation (EC) No. 1907/2006

SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006

Revision date 11.03.2020

1. Identification of substance/mixture and of the company/undertaking

1.2 **Product name:** Phosphate Buffered Saline – Tween 20 Tablet (pH 7.4)

1.3 **Intended use:** Laboratory chemicals; washing buffer for various applications

1.4 Details of the supplier of the safety data sheet

Company: Biosense Laboratories AS
Thormøhlensgt. 55
N-5006 Bergen
Norway

Telephone: +47 55543966

e-mail: biosense@biosense.com

1.5 **Emergency telephone number:** Giftinformasjonssentralen +(47)-22591300

2. Hazards identification

2.1 **Classification of substance or mixture:** Not a hazardous mixture according to regulation (EC) No. 1272/2008

2.2 **GHS Label Elements, Including precautionary statements:** Not a hazardous substance or mixture

2.3 **Other hazards:** No data available

3. Composition/information on ingredients

3.2 Mixtures

No component needs to be disclosed according to applicable regulations

4. First aid measures

4.1 Description of first aid measures

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

If inhaled

Move to fresh air; if person not breathing, give artificial respiration and consult a physician..

In case of skin contact

Wash with soap and water.

In case of eye contact

Flush eyes with plenty of water for at least 15 minutes; remove contact lenses if present and easy to do. Get medical attention if irritation occurs.

4.2 Most important symptoms and effects, both acute and delayed

- No data available
- 4.3 Indication of any immediate medical attention and special treatment needed**
No data available.

5. Firefighting measures

- 5.1 Extinguishing media** Use an extinguishing agent that are suitable for the surrounding fire
- 5.2 Special hazards arising from the substance or mixture**
Sodium oxide, phosphor oxides
- 5.3 Advice for fire fighters** Wear self-contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information** Product may be combustible at high temperatures

6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
Avoid dust formation; avoid breathing dust, vapours, mist or gas. Wear safety goggles and gloves; wash hands before and after use.
- 6.2 Environmental precautions** No data available
- 6.3 Methods and material for containment and cleaning up**
Use appropriate tools to put the spilled material into a convenient waste disposal container without creating dust; finish cleaning by spreading water over the contaminated area; keep containers closed for disposal;
- 6.4 Reference to other sections** For disposal: see section 13

7. Handling and storage

- 7.1 Precautions for safe handling** Provide appropriate ventilation at places where dust is formed. Keep away from heat and ignition. Avoid contact with skin and eyes
- 7.2 Conditions for safe storage, including incompatibilities**
Store at room temperature in a tightly closed container; use original container / packaging
- 7.3 Specific end use(s)** No data available

8. Exposure controls/personal protection

- 8.1 Control parameters** No data available
- 8.2 Exposure control**
Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice.

Personal protective equipment

Personal protective equipment

Gloves. Protective goggles.



Eye/face protection

Skin protection

Body protection

Respiratory protection

Wear safety goggles (EN 166)

Use proper lab gloves; gloves must be inspected prior to use. The selected gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it

Wear lab coat or other impervious clothes; type of protection equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

If necessary, use dust respirator tested and approved under appropriate government standards such as (NIOSH (USA) or CEN (EU)

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	White tablets
Odour	No data available
Odour threshold	No data available
pH	7.4
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (Solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	Completely soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other information

No further information

10. Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

No data available

C10.4 Conditions to avoid

Heat

10.5 Incompatible materials

Strong oxidizing reagents

10.6 Hazardous decomposition products

In case of fire; sodium oxides, phosphor oxides

11. Toxicological information

11.1 Information on toxicological effects

Mixtures

Acute toxicity

No data available

Inhalation:

No data available

Ingestion:

No data available

Skin contact:

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available

Aspiration hazard

No data available

Potential health effects

May cause respiratory irritation

May cause skin irritation

May cause eye irritation

12. Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

13. Disposal considerations

13.1 Waste treatment methods

Waste must be disposed in accordance with lokal control regulations.
Contaminated packaging: dispose as unused product

14. Transport information

14.1 UN-number

ADR-RID:-

IMDG:-

IATA:-

14.1 UN proper shipping name

ADR/RID:

Not dangerous goods

IMDG:

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class(es)

ADR-RID:-

IMDG:-

IATA:-

14.4 Pacaging group

ADR-RID:-

IMDG:-

IATA:-

14.5 Environmental hazards

ADR/RID:

No

IMDG Marine pollutant:

No

IATA:

No

14.6 Special precautions for user

No data available

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

This datasheet complies with the requirements of Regulation (EC) No. 1907/2006

16. Other information

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Version 5: 11.03.2020

Supersedes version 4: SIK 23.01.2019

Revision date:11.03.2020

Reason for Revision; Revised according to regulation (EC) No. 1907/2006

SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006
Revision date 11.03.2020

1. Identification of substance/mixture and of the company/undertaking

1.1 Product name: anti-Vitellogenin antibodies, Monoclonal and Polyclonal antibodies

1.2 Intended use: Determination of Vitellogenin in samples.

Restrictions on Use: For research use only.

1.3 Details of the supplier of the safety data sheet

Company: Biosense Laboratories AS
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N-5006 Bergen
Norway

Telephone: +47 55543966

e-mail: biosense@biosense.com

1.4 Emergency telephone number: Giftinformasjonsentralen +(47)-22591300

2. Hazards identification

2.1 Classification of substance or mixture: Not a hazardous mixture

2.2 GHS Label Elements, Including precautionary statements: Not applicable

2.3 Other hazards: None known

2.4 Unknown acute toxicity: None known

3. Composition/information on ingredients

3.2 Mixtures *Contains no hazardous ingredients at levels requiring disclosure by the OSHA Hazard Communication Standard (29 CFR 1910.1200), however it contains minor amounts of materials considered hazardous. We recommend handling all substances with caution.*

4. First aid measures

4.1 Description of first aid measures

If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
If inhaled	Move to fresh air; get medical attention if symptoms occur; if person not breathing, give artificial respiration and consult a physician..
In case of skin contact	Wash with soap and water; remove contaminated clothes and shoes; consult a physician..
In case of eye contact	Wash thoroughly with plenty of water for at least 15 min.; remove contact

If swallowed	lenses if present and easy-to-do; consult a physician.
General advice	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Consult a physician. Get medical attention if you feel unwell; show this data sheet to the doctor in attendance
4.2 Most important symptoms and effects, both acute and delayed	No data available
4.3 Indication of any immediate medical attention and special treatment needed	No data available. Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media	Use an extinguishing agent that are suitable for the surrounding fire
5.2 Special hazards arising from the substance or mixture	None known
5.3 Advice for fire fighters	Wear self-contained breathing apparatus for fire fighting if necessary.
5.4 Further information	No data available

6. Accidental release measures



6.1 Personal precautions, protective equipment and emergency procedures	Avoid dust formation; avoid breathing dust, vapours, mist or gas; wear safety goggles, suitable protection gloves; wash hands before and after use. Evacuate personnel to safe areas.
6.2 Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.
6.3 Methods and material for containment and cleaning up	Use appropriate tools to put the spilled material into a convenient waste disposal container without creating dust; keep container closed for disposal;
6.4 Reference to other sections	For information on safe handling: see section 7. For information on personal protection: see section 8. For disposal: see section 13

7. Handling and storage

7.1 Precautions for safe handling	Avoid inhalation of vapors and contact with skin and eyes. Wear appropriate
--	---

	personal protective equipment. Do not eat, drink or smoke in work area.
7.2 Conditions for safe storage, including incompatibilities	Store in a cool place in a tightly closed container. Recommended storage temperature 2-8
7.3 Specific end use(s)	Laboratory chemical. No other use stipulated

8. Exposure controls/personal protection

8.1 Control parameters	No data available
8.2 Exposure control	
Appropriate engineering controls	Provide adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment	
Personal protective equipment	Gloves. Protective goggles.
	 
Eye/face protection	Wear safety goggles (EN 166)
Skin protection	Use proper lab gloves; gloves must be inspected prior to use. The selected gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it
Body protection	Wear lab coat or other impervious clothes; type of protection equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	If necessary, use dust respirator tested and approved under appropriate government standards such as (NIOSH (USA) or CEN (EU)
Control of environmental exposure	Prevent further leakage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties	
Appearance	Form: Liquid
Odour	Characteristic
Odour threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available

Evaporation rate	No data available
Flammability (Solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	Completely soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other information

No further information

10. Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available. In case of fire: see section 5.

11. Toxicological information

11.1 Information on toxicological effects

Mixtures

Acute toxicity

No data available

Inhalation:

No data available

Ingestion:

No data available

Skin contact:

Irritant to skin and mucous membranes

Serious eye damage/eye irritation

May cause eye irritation in susceptible persons

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed a human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available
Aspiration hazard
No data available

12. Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

13. Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.
Avoid disposing large volumes in sewer.

Contaminated packaging

All waste must be handled and disposed according to local, state and federal regulations. Refer to section 7 and 8 for safe handling guidance.

14. Transport information

14.1 UN-number

Not regulated

14.1 UN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3 Transport hazard class(es)

No data available

14.4 Packaging group

No data available

14.5 Environmental hazards

No data available

14.6 Special precautions for user

No data available

15. Regulatory information

To the best of our knowledge, this product contains no substances which, at their given concentration, are considered hazardous by other regulatory agencies. Refer to section 3

16. Other information

Full text of H-statements referred to under sections 2 and 3.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biosense Laboratories AS shall not be held liable for any damage resulting from handling or from contact with the above product.

Precaution and disclaimer: for laboratory use only; not for drug, household, or any other use

Version 5: 11.03.2020

Supersedes version 4: SIK 23.01.2019

Revision date:11.03.2020

Reason for Revision; Revised according to regulation (EC) No. 1907/2006

SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006
Revision date 11.03.2020

1. Identification of substance/mixture and of the company/undertaking

1.1 Product name: Goat anti-Rabbit IgG (HRP), Goat anti-Mouse IgG (HRP)

1.2 Intended use: For research use only
Restrictions on Use: For research use only.

1.3 Details of the supplier of the safety data sheet

Company: Biosense Laboratories AS
Thormøhlensgt. 55
N-5006 Bergen
Norway

Telephone: +47 55543966
e-mail: biosense@biosense.com

1.4 Emergency telephone number: Giftinformasjonsentralen +(47)-22591300

2. Hazards identification

2.1 Classification of substance or mixture: (EC) No 1272/2008

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2
Skin sensitization Category 1

2.2 GHS Label Elements, Including precautionary statements

Pictogram
Signal word



Warning

Hazard statement

H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation

Precautionary statements

P261 Avoid breathing dust/fume/vapors/spray
P264 Wash face, hands and any exposed skin thoroughly after handling
P280 Wear protective gloves/eye protection/face protection
P306 + P351 + P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
P337 + P313 If eye irritation persists; get medical advice/attention

P362 Take off contaminated clothing and wash before reuse
 P272 Contaminated work clothing should not be allowed in the workplace
 P501 Dispose of contents/container to an approved waste disposal plant
 None known

2.3 Other hazards:

3. Composition/information on ingredients

3.1 Substances

<i>Chemical Name</i>	<i>EC no</i>	<i>CAS #</i>	<i>Weight%</i>
Glycerol	200-289-5	56-81-5	30%
Proclin	-	55965-84-9	0,1%
Classification – Skin corr. 1B; Eye Dam. 1; Skin Sens. 1; Acute tox. 3; Aquatic acute 1; Aquatic chronic 1; H314, H318, H317, H301, H311, H331, H400, H410			

For the full text of the H-statements mentioned in this Section, see Section 16

4. First aid measures

4.1 Description of first aid measures

If inhaled	Move to fresh air; get medical attention if symptoms occur; if person not breathing, give artificial respiration and consult a physician..
In case of skin contact	Wash with soap and water; remove contaminated clothes and shoes; consult a physician. May cause an allergic skin reaction.
In case of eye contact	Wash thoroughly with plenty of water for at least 15 min.; remove contact lenses if present and easy-to-do; consult a physician.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
General advice	If symptoms persists, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Main symptoms see section 2.2

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. May cause sensitization of susceptible persons.

5. Firefighting measures

5.1 Extinguishing media

Use an extinguishing agent that are suitable for the surrounding fire

5.2 Special hazards arising from the substance or mixture

None known

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for fire fighting if necessary.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid contact with the skin and the eyes. Evacuate personnel to safe areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sands, silica gel, acid binder, universal binder, sawdust)

7. Handling and storage

7.1 Precautions for safe handling

Ensure adequate ventilation. Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or mist.

7.2 Conditions for safe storage, including incompatibilities

Store in a cool place in a tightly closed, properly labeled container. Keep out of reach of children.

7.3 Specific end use(s)Recommended storage temperature 2-8
Laboratory chemical. No other use stipulated

8. Exposure controls/personal protection

8.1 Control parameters**Exposure limits**

National occupational exposure limits for Glycerol 56-81-5

United Kingdom

STEL: 30 mg/m³; TWA: 10 mg/m³

France

VME: 10 mg/m³

Spain

VLA-ED: 10 mg/m³

Germany:

MAK 50 mg/m³; Ceiling/peak: 100 mg/m³

European Union

-

Italy

-

Portugal

TWA: 10 mg/m³

Netherlands

-

Finland

TWA: 20 mg/m³

Denmark

-

Austria



-

Switzerland

STEL: 100 mg/m³; MAK: 50 mg/m³

Poland

NDS: 10 mg/m³

Norway	-
Ireland	TWA: 10 mg/m ³
Derived effect level	No information available
Predicted no effect concentration	No information available
8.2 Exposure control	
Appropriate engineering controls	Provide adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.
Personal protective equipment	
Personal protective equipment	Gloves. Protective goggles.
	 
Eye/ face protection	Wear safety goggles (EN 166)
Skin protection	Use proper lab gloves; gloves must be inspected prior to use. The selected gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it
Body protection	Wear lab coat or other impervious clothes; type of protection equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	No special protective equipment required
Control of environmental exposure	Prevent further leakage if safe to do so. Discharge into the environment must be avoided.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Form: Liquid
Odour	No information available
pH	7.4
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (Solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	Completely soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available

Oxidizing properties	No data available
9.2 Other information	No further information
No further information	

10. Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under recommended storage conditions
10.3 Possibility of hazardous reactions	None under normal processing
10.4 Conditions to avoid	Heat, flames and spark
10.5 Incompatible materials	None in particular
10.6 Hazardous decomposition products	None under normal use conditions

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity Product information	Toxic by inhalation, in contact with skin and/or if swallowed. Irritating to skin, eyes and/or respiratory tract. May cause sensitization of susceptible persons
Inhalation:	Toxic by inhalation. May cause irritation of respiratory tract
Ingestion:	Toxic if swallowed. Ingestion may cause irritation to mucous membranes
Skin contact:	May cause irritation
Eye contact	Avoid contact with eyes. May cause irritation

12. Ecological information

12.1 Toxicity

Ecotoxicity effects	As supplied the preparation is not expected to present significant adverse environmental effects.
Chemical name: Glycerol Toxicity to fish	51-57: 96h Oncorhynchus mykiss mL/L LC50 static

Toxicity to Algae	-
Toxicity to microorganisms	-
Toxicity to daphnia and other aquatic vertebrates	500: 24h Daphnia magna mg/L EC50
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	No data available
12.6 Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

13. Disposal considerations

13.1 Waste treatment methods

Product	Dispose in accordance with local regulations
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal
Other information	No further information

14. Transport information

ADR	Not dangerous goods
IATA	Not dangerous goods
DOT	Not dangerous goods

15. Regulatory information

15.1 Safety, Health and Environmental Regulations/Legislation specific for the Substance or mixture	No information available
15.2 Chemical Safety Assessment	No information available

16. Other information

Full text of H-statements referred to under sections 2 and 3.

H301 + H311 + H331 – Toxic if swallowed, in contact with skin or if inhaled

H314 Causes severe skin burns and eye damage

H317 May cause allergic skin reaction

H318 Causes serious eye damage

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biosense Laboratories AS shall not be held liable for any damage resulting from handling or from contact with the above product.

Precaution and disclaimer: for laboratory use only; not for drug, household, or any other use

Version 5: 11.03.2020

Supersedes version 4: SIK 23.01.2019

Revision date:11.03.2020

Reason for Revision; Revised according to regulation (EC) No. 1907/2006

SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006
Revision date 11.03.2020

1. Identification of substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name:	TMB One Component HRP Microwell Substrate
Product form:	Mixture
Product code:	TMBW

1.2 Intended use:

For laboratory use

1.3 Details of the supplier of the safety data sheet

Company: Biosense Laboratories AS
Thormøhlensgt. 55
N-5006 Bergen
Norway
Telephone: +47 55543966
e-mail: biosense@biosense.com

1.4 Emergency telephone number: Giftinformasjonssentralen +(47)-22591300

2. Hazards identification

2.1 Classification of substance or mixture:

GHS-US classification	Not classified
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2.2 Label Elements:

GHS-US labelling	No labelling applicable
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2.3 Other hazards:

No additional information available

2.3 Unknown acute toxicity (GHS-US)

No data available

3. Composition/information on ingredients

3.1 Substance

Not applicable

3.2 Mixture

Contains no hazardous ingredients at levels requiring disclosure by the OSHA hazards Communication Standard (29 CFR 1910.1200)

4. First aid measures

4.1 Description of first aid measures

First aid measures general	If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
First-aid measures after inhalation	Remove to fresh air and keep at rest in a comfortable position for breathing.
First-aid measures after skin contact	Remove affected clothing and wash with plenty of water for at least 15 minutes.
First-aid measures after eye contact	Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention if you feel unwell.
First-aid measures after ingestion	If swallowed, rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after inhalation	May cause respiratory irritation.
Symptoms/injuries after skin contact	May cause skin irritation.
Symptoms/injuries after eye contact	May cause slight temporary irritation.
Symptoms/injuries after ingestion	May cause gastrointestinal irritation.

4.3 Indication of any immediate medical attention and special treatment needed

No additional data available.

5. Firefighting measures

5.1 Extinguishing media	Suitable extinguishing media: Foam, Carbon dioxide, Dry powder, Water spray, Sand
5.2 Special hazards arising from the substance or mixture	
Fire hazard	The product is not flammable.
Explosion hazard	Product is not explosive.
Reactivity	No dangerous reaction known under normal conditions of use.
5.3 Advice for fire fighters	
Precautionary measures fire	Wear self-contained breathing apparatus. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not

Protection during firefighting	dispose of fire fighting water in the environment. Do not enter area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus and protective suit (see item 8).
5.4 Further information	No data available

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see section 8).

6.1.1 For non-emergency personnel

Protective equipment

Wear protective equipment as described in Section 8.

Emergency procedures

Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment

Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

For containment

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up

Place in a suitable container for disposal in accordance with waste regulations (see section 13). Wash spill area thoroughly with plenty of soap and water.

6.4 Reference to other sections

See section 8 and 13.

7. Handling and storage

7.1 Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Use appropriate personal protection equipment (PPE). Jewep away from sources of ignition – No smoking. Wash hands and other exposed areas with mild soap and water

before eating, drinking or smoking and when leaving work.

7.2 Conditions for safe storage, including incompatibilities

Keep the container tightly closed. Store in a dry, cool and well-ventilated place. Store away from light. Avoid elevated temperatures. Storage temperature 2-8 C

7.3 Specific end use(s)

No additional information.

8. Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure control

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Gloves. Protective goggles.



Eye/face protection

Chemical goggles or safety glasses.

Hand protection

Use gloves chemical resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

Skin and body protection

Wear suitable protective clothing. Wear long sleeves.

Respiratory protection

Where excessive vapour, mist, or dust may result, use NIOSH approved respiratory equipment.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Colorless to pale yellow liquid
Physical state	Liquid
Color	Clear, light yellow.
Odour	No specific data
Odour threshold	No data available
pH	3.3-3.8
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (Solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available

Relative density	1.01 (H ₂ O = 1.0)
Water solubility	Completely soluble in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	Product is not explosive
Oxidizing properties	Not an oxidizer

9.2 Other information

No additional information available

10. Stability and reactivity

10.1 Reactivity

No dangerous reaction known under normal conditions of use

10.2 Chemical stability

Stable under recommended handling and storage conditions (see section 7)

10.3 Possibility of hazardous reactions

None known

10.4 Conditions to avoid

Light. Elevated temperatures. Moisture.

10.5 Incompatible materials

Strong oxidizing reagents. Metals.

10.6 Hazardous decomposition products

Thermal decomposition generates: Carbon oxides (CO, CO₂), Nitrogen oxides.

11. Toxicological information

11.1 Information on toxicological effects

Mixtures

Acute toxicity

Not classified

Skin corrosion/irritation

Not classified

Serious eye damage/eye irritation

Not classified. pH 3.3-3.8

Respiratory or skin sensitization

Not classified

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

Specific target organ toxicity – single exposure

Not classified

Aspiration hazard

Not classified

Symptoms/injury after inhalation

May cause respiratory irritation

Symptoms/injury after skin contact

May cause skin irritation

Symptoms/injury after eye contact

May cause slight temporary irritation

Symptoms/injurie after ingestion

May cause gastrointestinal irritation

12. Ecological information

12.1 Toxicity

No information available

12.2 Persistence and degradability

No information available

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Other adverse effects

No information available

13. Disposal considerations

13.1 Waste treatment methods

Waste treatment methods

Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

Waste disposal recommendations

Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

14. Transport information

In accordance with DOT

Not hazardous for transport

Additional information

No supplementary information available

Transport by sea

No supplementary information available

Air transport

No supplementary information available

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety sheet complies with the requirements of Regulation (EC) No: 1907/2006. All chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory. All the constituents of this preparation are registered in the EINECS inventory or the ELINCS list

16. Other information

Full text of H-statements referred to under sections 2 and 3.

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biosense Laboratories AS shall not be held liable for any damage resulting from handling or from contact with the above product.

Precaution and disclaimer: for laboratory use only; not for drug, household, or any other use

Version 5: 11.03.2020

Supersedes version 4: SIK 23.01.2019

Revision date:11.03.2020

Reason for Revision; Revised according to regulation (EC) No. 1907/2006

SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006

Revision date 11.03.2020

1. Identification of substance/mixture and of the company/undertaking

1.1 Product name: Purified, lyophilized Vitellogenin

1.2 Intended use: Determination of Vitellogenin in samples.

Restrictions on Use: For research use only.

1.3 Details of the supplier of the safety data sheet

Company: Biosense Laboratories AS

Thormøhlensgt. 55

N-5006 Bergen

Norway

Telephone: +47 55543966

e-mail: biosense@biosense.com

1.4 Emergency telephone number: Giftinformasjonssentralen +(47)-22591300

2. Hazards identification

2.1 Classification of substance or mixture: Not a hazardous mixture

2.2 GHS Label Elements, Including precautionary statements: Not applicable

2.3 Other hazards: None known

2.4 Unknown acute toxicity: None known

3. Composition/information on ingredients

3.2 Mixtures *Contains no hazardous ingredients at levels requiring disclosure by the OSHA Hazard Communication Standard (29 CFR 1910.1200), however it contains minor amounts of materials considered hazardous. We recommend handling all substances with caution.*

4. First aid measures

4.1 Description of first aid measures

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

If inhaled

Move to fresh air; get medical attention if symptoms occur; if person not breathing, give artificial respiration and consult a physician..

In case of skin contact

Wash with soap and water; remove contaminated clothes and shoes; consult a physician..

In case of eye contact

Wash thoroughly with plenty of water for at least 15 min.; remove contact lenses if present and easy-to-do; consult a physician.

If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
General advice	Consult a physician. Get medical attention if you feel unwell; show this data sheet to the doctor in attendance

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available. Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media	Use an extinguishing agent that are suitable for the surrounding fire
5.2 Special hazards arising from the substance or mixture	None known
5.3 Advice for fire fighters	Wear self-contained breathing apparatus for fire fighting if necessary.
5.4 Further information	No data available

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Avoid dust formation; avoid breathing dust, vapours, mist or gas; wear, safety goggles, suitable protection gloves; wash hands before and after use. Evacuate personel to safe areas.
6.2 Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.
6.3 Methods and material for containment and cleaning up	Use appropriate tools to put the spilled material into a convenient waste disposal container without creating dust; keep containes closed for disposal;
6.4 Reference to other sections	For information on safe handling: see section 7. For information on personal protection: see section 8. For disposal: see section 13

7. Handling and storage

7.1 Precautions for safe handling	Avoid inhalation of vapors and contact with skin and eyes. Wear appropriate personal protective equipment. Do not eat, drink or smoke in work area.
--	---

7.2 Conditions for safe storage, including incompatibilities

Store in a cool place in a tightly closed container.

7.3 Specific end use(s)

Recommended storage temperature 2-8
Laboratory chemical. No other use stipulated

8. Exposure controls/personal protection**8.1 Control parameters**

No data available

8.2 Exposure control**Appropriate engineering controls**

Provide adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Personal protective equipment

Gloves. Protective goggles.



Eye/face protection

Wear safety goggles (EN 166)

Skin protection

Use proper lab gloves; gloves must be inspected prior to use. The selected gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it

Body protection

Wear lab coat or other impervious clothes; type of protection equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

If necessary, use dust respirator tested and approved under appropriate government standards such as (NIOSH (USA) or CEN (EU)

Control of environmental exposure

Prevent further leakage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance

Form: Solid, dry.

Odour

No data available

Odour threshold

No data available

pH

No data available

Melting point/freezing point

No data available

Initial boiling point and boiling range

No data available

Flash point

No data available

Evaporation rate

No data available

Flammability (Solid, gas)

No data available

Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	Completely soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other information

No further information

10. Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available. In case of fire: see section 5.

11. Toxicological information

11.1 Information on toxicological effects

Mixtures

Acute toxicity

No data available

Inhalation:

No data available

Ingestion:

No data available

Skin contact:

Irritant to skin and mucous membranes

Serious eye damage/eye irritation

May cause eye irritation in susceptible persons

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed a human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available

Aspiration hazard

No data available

12. Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

13. Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Avoid disposing large volumes in sewer.

Contaminated packaging

All waste must be handled and disposed according to local, state and federal regulations. Refer to section 7 and 8 for safe handling guidance.

14. Transport information

14.1 UN-number

Not regulated

14.1 UN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3 Transport hazard class(es)

No data available

14.4 Packaging group

No data available

14.5 Environmental hazards

No data available

14.6 Special precautions for user

No data available

15. Regulatory information

To the best of our knowledge, this product contains no substances which, at their given concentration, are considered hazardous by other regulatory agencies. Refer to section 3

16. Other information

Full text of H-statements referred to under sections 2 and 3.

The above information is believed to be correct but does not purport to be

all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biosense Laboratories AS shall not be held liable for any damage resulting from handling or from contact with the above product.

Precaution and disclaimer: for laboratory use only; not for drug, household, or any other use

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