

SAFETY DATA SHEET – COVER SHEET

REVISION DATE: 2014-08-29

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

Product identifier

Product name: *Encephalitozoon cuniculi* (EC) CIA Kit
Article number: 18-2001

Relevant identified uses of the substance or mixture, and uses advised against

Identified uses: *In-vitro* diagnostic; detection of antibodies against *Encephalitozoon cuniculi* in rabbit serum

Details of the supplier of the safety data sheet

Company: Medicago AB
Danmark Berga 13
755 98 Uppsala
Telephone: +46 (0)18 56 11 80
Facsimile: +46 (0)18 56 11 88
E-mail address: info@medicago.se

Emergency telephone number

Emergency telephone number: Giftinformationscentralen 112

Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Classified as: Acute Toxicity (category 3), H301, H311, H331

Label elements

Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)



Signal word: Danger

Hazard statement(s)

H301 Toxic if swallowed
H311 Toxic in contact with skin
H331 Toxic if inhaled

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray
P280 Wear protective gloves/protective clothing/eye protection/face protection
P301+310 IF SWALLOWED: Immediately call POISON CENTER and/or doctor
P302+352 IF ON SKIN: Wash with plenty of water

Complementary hazard information

H351 Suspected of causing cancer by inhalation (formaldehyde)

Other hazards

No additional hazardous products are formed after mixing individual components.

Composition/information on ingredients

Component	Product number	MSDS number	Classification according to constitution (EC) no 1272/2008 (CLP)	Pages
Carbon Suspension	18-6010	24-0022	Not classified	3-7
EC Negative Serum	18-4201	24-0302	Not classified	8-12
EC Positive Serum	18-0043	24-0014	Not classified	13-17
EC Whole Cell Antigen Suspension	18-0042	24-0010	Acute Tox 3, H301, 311, H331	18-22
PBS Solution	18-2067	24-0021	Not classified	23-27

Other Information

This information is based on the current state of knowledge.

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

SAFETY DATA SHEET: 24-0022

according to Regulation (EG) no 1907/2006
 Generic EU MSDS – No country specific data
 REVISION DATE: 2014-08-29

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

1.1 Product identifier

Product name: Carbon Suspension for CIA test
 Article number: 18-6010

1.2 Relevant identified uses of the substance or mixture, and uses advised against

Identified uses: Laboratory chemical, Carbon Immunoassay studies; *in-vitro* diagnostic

1.3 Details of the supplier of the safety data sheet

Company: Medicago AB
 Danmark Berga 13
 755 98 Uppsala
 Telephone: +46 (0)18 56 11 80
 Facsimile: +46 (0)18 56 11 88
 E-mail address: info@medicago.se

1.4 Emergency telephone number

Emergency telephone number: Giftinformationscentralen 112 (Sweden)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Not classified as hazardous substance or mixture

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

This product does not need to be labelled in accordance with EC directives or respective national laws.

Signal word: -

Hazard statement(s): -

Precautionary statement(s): -

Complementary hazard information:

No further information

2.3 Other hazards

No data available

3. Composition/information on ingredients

3.2 Mixtures

Substance	CAS-no.	EC-no.	Index-no.	Weight %	Classification according to constitution (EC) no 1272/2008 (CLP)
INDIA INK	8046-52-4	-	-	40-60%	Not classified
Phosphate buffered saline (PBS)*	-	-	-	40-60%	Not classified
Sodium azide	26628-22-8	247-852-1	-	0.05%	Working concentration is not classified as hazardous to health and environment

*Manufactured by Medicago, product number: 09-9400

4. First aid measures

4.1 Description of first aid measures

If swallowed	Wash mouth with water; never give anything by mouth to an unconscious person; get medical attention
If inhaled	Move to fresh air; if person is not breathing, give artificial respiration; get medical attention
In case of skin contact	Wash off with soap and water; remove contaminated clothes and shoes; get medical attention
In case of eye contact	Wash thoroughly with clean water for at least 15 min; remove contact lenses if present and easy-to-do; get medical attention
General advice	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

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: water spray, carbon dioxide, dry chemical powder; alcohol-resistant foam

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting

5.4 Further information

No further information

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear lab coat, safety goggles, suitable protection gloves and boots; wash hands before and after use

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and material for containment and cleaning up

For large amount: absorb with sand, place in a suitable and closed container for disposal; for small amount: wipe up immediately to prevent staining

6.4 Reference to other sections

For disposal: see section 13

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothes

7.2 Conditions for safe storage, including any incompatibilities

Keep in original container; keep container tightly closed and store at 2-8°C

7.3 Specific end use(s)

No data available

8. Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Appropriate engineering controls

Use general hygiene procedures; use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits; if user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit

(Continued on page 5)

Personal protective equipment

Eye/face protection	Wear safety goggles (EN 166)
Skin protection	Use proper lab gloves; gloves must be inspected prior to use; wash and dry hands
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	For most conditions no respiratory protection is needed; if necessary use dust respirator; use 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	black liquid
Odour	odourless
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	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 risk for explosion
Oxidizing properties	no data available

9.2 Other information

No data available

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

11. Toxicological information

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity

No data available

Skin corrosion/irritation

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

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

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

Low risk of water pollution

13. Disposal considerations

13.1 Waste treatment methods

Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

Contaminated packaging: dispose of as unused product

SAFETY DATA SHEET: 24-0302

according to Regulation (EG) no 1907/2006
 Generic EU MSDS – No country specific data
 REVISION DATE: 2014-08-29

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

1.1 Product identifier

Product name: EC Negative Control
 Article number: 18-4201

1.2 Relevant identified uses of the substance or mixture, and uses advised against

Identified uses: Detection of *Encephalitozoon cuniculi*; for laboratory use only

1.3 Details of the supplier of the safety data sheet

Company: Medicago AB
 Danmark Berga 13
 755 98 Uppsala
 Telephone: +46 (0)18 56 11 80
 Facsimile: +46 (0)18 56 11 88
 E-mail address: info@medicago.se

1.4 Emergency telephone number

Emergency telephone number: Giftinformationscentralen 112

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Not classified as hazardous substance and mixture

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

This product does not need to be labelled in accordance with EC directive or respective national laws.

Signal word: -

Hazard statement(s): -

Precautionary statement(s): -

Complementary information:

Caution – substance not yet tested completely.

2.3 Other hazards

None

3. Composition/information on ingredients

3.2 Mixtures

Substance	CAS-no.	EC-no.	Index-no.	Weight %	Classification according to constitution (EG) no 1272/2008 (CLP)
<i>E. cuniculi</i> negative control serum	-	-	-	99.95%	Not classified
Sodium azide	26628-22-8	247-852-1	-	0.05%	Not classified

4. First aid measures

4.1 Description of first aid measures

If swallowed	Rinse mouth with water. Consult a physician.
If inhaled	Supply fresh air.
In case of skin contact	Wash off with soap and plenty of water. Generally the product does not irritate the skin.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes.
General advice	If symptoms persist, consult a physician. Show this safety 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

5. Firefighting measures

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for fire fighters

Protective equipment: Standard protective clothing for fire fighters

5.4 Further information

The product itself does not burn

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use suitable protective equipment (see chapter 8).

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Keep in a suitable, closed container for disposal.

6.4 Reference to other sections

For disposal: see section 13

7. Handling and storage

7.1 Precautions for safe handling

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Store at 2-8°C. Keep container tightly closed.

7.3 Specific end use(s)

No data available.

8. Exposure controls/personal protection

8.1 Control parameters

This product does not contain any relevant quantities of materials with critical values that have to be monitored.

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice

(Continued on page 10)

Personal protective equipment

Eye/face protection

Use equipment for eye protection, tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with proper gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash hands.

Body Protection

Use lab coat.

Respiratory protection

For most conditions, no respiratory protection is needed; if necessary use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Form: liquid
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	no data available
Partition coefficient: n-octanol/ water	no data available
Auto-ignition temperature	product is not self-igniting
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

9.2 Other information

No data available

10. Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

No data available

11. Toxicological information

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity

LD50: Oral 27 mg/kg (mouse) – sodium azide
LD50: Dermal 500-1000 mg/kg (rabbit) – sodium azide

Skin corrosion/irritation

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

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation
Ingestion	May be harmful if swallowed
Skin	May be harmful if absorbed through skin; may cause skin irritation
Eyes	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

Not considered as a PBT

Not considered as a vPvB

12.6 Other adverse effects

No data available

13. Disposal considerations

13.1 Waste treatment methods

Small quantities can be disposed of with household waste. Keep in suitable, closed container for disposal. Disposal must be made according to official regulations.

Contaminated packaging: dispose of as unused product

14. Transport information

14.1 UN-number

ADR-RID, IMDG, IATA: Not applicable

14.2 UN proper shipping name

ADR-RID, IMDG, IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR-RID, IMDG, IATA: Not applicable

14.4 Packaging group

ADR-RID, IMDG, IATA: Not applicable

14.5 Environmental hazards

ADR-RID: no

IMDG, water pollutant: no

IATA: no

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

15. Regulatory information

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

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

No data available

15.2 Chemical safety assessment

No data available

16. Other information

This information is based on the current state of knowledge.

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

SAFETY DATA SHEET: 24-0014

according to Regulation (EG) no 1907/2006
 Generic EU MSDS – No country specific data
 REVISION DATE: 2014-08-29

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

1.1 Product identifier

Product name: **EC Positive Serum**
 (Rabbit antiserum against *Encephalitozoon cuniculi*)
 Article number: 18-4043

1.2 Relevant identified uses of the substance or mixture, and uses advised against

Identified uses: Detection of *Encephalitozoon cuniculi*; for laboratory use only

1.3 Details of the supplier of the safety data sheet

Company: Medicago AB
 Danmark Berga 13
 755 98 Uppsala
 Telephone: +46 (0)18 56 11 80
 Facsimile: +46 (0)18 56 11 88
 E-mail address: info@medicago.se

1.4 Emergency telephone number

Emergency telephone number: Giftinformationscentralen 112

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Not classified as hazardous substance and mixture

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

This product does not need to be labelled in accordance with EC directive or respective national laws.

Signal word: -

Hazard statement(s): -

Precautionary statement(s): -

Complementary information:

Caution – substance not yet tested completely.

2.3 Other hazards

None

3. Composition/information on ingredients

3.2 Mixtures

Substance	CAS-no.	EC-no.	Index-no.	Weight %	Classification according to constitution (EG) no 1272/2008 (CLP)
<i>E. cuniculi</i> positive control serum	-	-	-	99.95%	Not classified
Sodium azide	26628-22-8	247-852-1	-	0.05%	Not classified

4. First aid measures

4.1 Description of first aid measures

If swallowed	Rinse mouth with water. Consult a physician.
If inhaled	Supply fresh air.
In case of skin contact	Wash off with soap and plenty of water. Generally the product does not irritate the skin.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes.
General advice	If symptoms persist, consult a physician. Show this safety 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

5. Firefighting measures

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for fire fighters

Protective equipment: Standard protective clothing for fire fighters

5.4 Further information

The product itself does not burn

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use suitable protective equipment (see chapter 8).

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Keep in a suitable, closed container for disposal.

6.4 Reference to other sections

For disposal: see section 13

7. Handling and storage

7.1 Precautions for safe handling

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Store at 2-8°C. Keep container tightly closed.

7.3 Specific end use(s)

No data available.

8. Exposure controls/personal protection

8.1 Control parameters

This product does not contain any relevant quantities of materials with critical values that have to be monitored.

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice

(Continued on page 15)

Personal protective equipment**Eye/face protection**

Use equipment for eye protection, tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with proper gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash hands.

Body Protection

Use lab coat.

Respiratory protection

For most conditions, no respiratory protection is needed; if necessary use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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

Appearance	Form: liquid
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	no data available
Partition coefficient: n-octanol/ water	no data available
Auto-ignition temperature	product is not self-igniting
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

9.2 Other information

No data available

10. Stability and Reactivity**10.1 Reactivity**

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

No data available

11. Toxicological information

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity

LD50: Oral 27 mg/kg (mouse) – sodium azide
LD50: Dermal 500-1000 mg/kg (rabbit) – sodium azide

Skin corrosion/irritation

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

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation
Ingestion	May be harmful if swallowed
Skin	May be harmful if absorbed through skin; may cause skin irritation
Eyes	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

Not considered as a PBT

Not considered as a vPvB

12.6 Other adverse effects

No data available

13. Disposal considerations

13.1 Waste treatment methods

Small quantities can be disposed of with household waste. Keep in suitable, closed container for disposal. Disposal must be made according to official regulations.

Contaminated packaging: dispose of as unused product

14. Transport information

14.1 UN-number

ADR-RID, IMDG, IATA: Not applicable

14.2 UN proper shipping name

ADR-RID, IMDG, IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR-RID, IMDG, IATA: Not applicable

14.4 Packaging group

ADR-RID, IMDG, IATA: Not applicable

14.5 Environmental hazards

ADR-RID: no

IMDG, water pollutant: no

IATA: no

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

15. Regulatory information

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

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

No data available

15.2 Chemical safety assessment

No data available

16. Other information

This information is based on the current state of knowledge.

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

SAFETY DATA SHEET: 24-0010

according to Regulation (EG) no 1907/2006
 Generic EU MSDS – No country specific data
 REVISION DATE: 2014-08-29

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

1.1 Product identifier

Product name: *Encephalitozoon cuniculi* (EC) Whole Cell Antigen Suspension
 Article number: 18-2002

1.2 Relevant identified uses of the substance or mixture, and uses advised against

Identified uses: Laboratory substance

1.3 Details of the supplier of the safety data sheet

Company: Medicago AB
 Danmark Berga 13
 755 98 Uppsala
 Telephone: +46 (0)18 56 11 80
 Facsimile: +46 (0)18 56 11 88
 E-mail address: info@medicago.se

1.4 Emergency telephone number

Emergency telephone number: Giftinformationscentralen 112 (Sweden)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Classified: Acute Toxicity (category 3); H301, H311, H331

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)



Signal word	Danger
Hazard statement(s)	
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
Precautionary statement(s)	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P208	Wear protective gloves/protective clothing/eye protection/face protection
P301+310	IF SWALLOWED: Immediately call POISON CENTER and/or doctor
P302+352	IF ON SKIN: Wash with plenty of water
Complementary hazard information	
H351	Suspected of causing cancer by inhalation (formaldehyde)

2.3 Other hazards

No data available

3. Composition/information on ingredients

3.2 Mixtures

Substance	CAS-no.	EC-no.	Index-no.	Weight %	Classification according to constitution (EC) no 1272/2008 (CLP)
<i>Encephalitozoon cuniculi</i> spores	-	-	-	~30x10 ⁷ /ml	Not classified
PBS	-	-	-	90-100%	Not classified
Formaldehyde	50-00-0	200-001-8	605-001-00-5	0.1%	Acute Tox 3; H301, H31, H331

For the full text of H-statements: see section 16

4. First aid measures

4.1 Description of first aid measures

If swallowed	Wash mouth with water; DO NOT induce vomiting; never give anything by mouth to an unconscious person; get medical attention
If inhaled	Move to fresh air; if person is not breathing, give artificial respiration; get medical attention
In case of skin contact	Wash off with plenty of water; remove contaminated clothes; get medical attention
In case of eye contact	Wash eyes thoroughly with plenty of clean water for at least 15 min; remove contact lenses if present and easy-to-do; get medical attention
General advice	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

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: water spray, alcohol-resistant foam, dry chemical, CO₂

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting; wear protective clothing to prevent contact with skin and eyes

5.4 Further information

No data available

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing fume/mist/vapours/spray; keep away from source of ignition; wear lab coat, safety goggles, suitable protection gloves and boots

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and material for containment and cleaning up

Absorb spilled material on sand and place it in a suitable waste disposal container; keep container tightly closed for disposal; finish cleaning by spreading ≥75% ethanol over the contaminated area

6.4 Reference to other sections

For disposal: see section 13

7. Handling and storage

7.1 Precautions for safe handling

Avoid breathing fume/mist/vapours/spray; avoid contact with skin, eyes and clothes

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed; use original container; store at +4°C in a dry and well-ventilated place; opened container must be carefully released and kept upright to prevent leakage

7.3 Specific end use(s)

No data available

8. Exposure controls/personal protection

8.1 Control parameters

Components with work control parameters

8.2 Exposure controls

Appropriate engineering controls

Use general hygiene procedures; use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits; if user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit

Personal protective equipment

Eye/face protection	Wear safety goggles (EN 166)
Skin protection	Use proper lab gloves; gloves must be inspected prior to use; wash and dry hands
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)

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	clear liquid with pungent colour
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	100°C (at 1.013 hPa)
Flash point	56°C (in closed container)
Evaporation rate	no data available
Flammability (Solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	53 hPa (at 39°C)
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 data available

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

Strong bases, acids, oxidizing reagents, alkali metals, amines, acid chlorides, acid anhydrides, reducing agents, peroxides, isocyanates, phenol, aniline

10.6 Hazardous decomposition products

In case of fire: carbon oxides

11. Toxicological information

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity

No data available

Skin corrosion/irritation

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

IARC: 1

GROUP 1: Carcinogenic to humans (Formaldehyde)

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation

Toxic if inhaled; the material is extremely destructive to the tissue of the mucus membranes and upper respiratory tract

Skin Contact

Toxic if absorbed through skin; causes skin burns

Eye Contact

May cause eye burns

Ingestion

Toxic if swallowed; causes burns

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

(Continued on page 22)

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 of in accordance with federal, state, and local environmental control regulations.

Dispose of all used or unused reagent as well as any other contaminated disposable materials following procedures for infectious or potentially infectious products.

Contaminated packaging: dispose of as unused product

14. Transport information**14.1 UN-number**

ADR-RID: 1198

IMDG: 1198

IATA: 1198

14.2 UN proper shipping name

ADR-RID: ENCEPHALITOOZON CUNICULI WHOLE CELL ANTIGEN SUSPENSION IN FORMALDEHYDE SOLUTION (flammable)

IMDG: ENCEPHALITOOZON CUNICULI WHOLE CELL ANTIGEN SUSPENSION IN FORMALDEHYDE SOLUTION (flammable)

IATA: *Encephalitosoon cuniculi* whole cell antigen suspension in formaldehyde solution (flammable)**14.3 Transport hazard class(es)**

ADR-RID: 3 (8)

IMDG: 3(8)

IATA: 3 (8)

14.4 Packaging group

ADR-RID: III

IMDG: III

IATA: III

14.5 Environmental hazards

ADR-RID: no

IMDG, water pollutant: no

IATA: no

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

15. Regulatory information

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

No data available

15.2 Chemical safety assessment

No data available

16. Other information

This information is based on the current state of knowledge.

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

Text of H-phrases in section 3

H301

Toxic if swallowed

H311

Toxic in contact with skin

H331

Toxic if inhaled

Acute Tox 4

Acute Toxicity (category 4)

SAFETY DATA SHEET: 24-0021

according to Regulation (EG) no 1907/2006
 Generic EU MSDS – No country specific data
 REVISION DATE: 2014-08-29

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

1.1 Product identifier

Product name: Phosphate Buffered Saline (PBS) solution
 Article number: 18-2067

1.2 Relevant identified uses of the substance or mixture, and uses advised against

Identified uses: Laboratory chemical, buffer solution for various applications

1.3 Details of the supplier of the safety data sheet

Company: Medicago AB
 Danmark Berga 13
 755 98 Uppsala
 Telephone: +46 (0)18 56 11 80
 Facsimile: +46 (0)18 56 11 88
 E-mail address: info@medicago.se

1.4 Emergency telephone number

Emergency telephone number: Giftinformationscentralen 112

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Not classified as hazardous substance or mixture

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

This product does not need to be labelled in accordance with EC directives or respective national laws.

Signal word: -

Hazard statement(s): -

Precautionary statement(s): -

Complementary hazard information

No further information

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	Rinse mouth immediately with plenty of water; get medical attention
If inhaled	Move to fresh air; if person is not breathing, give artificial respiration; if breathing is difficult, give oxygen; get medical attention
In case of skin contact	Wash off with soap and plenty of water; consult a physician
In case of eye contact	Remove contact lenses if present and easy-to-do; rinse thoroughly with plenty for at least 15 min; consult a physician
General advice	Consult a physician; show this data sheet to the doctor in attendance

4.2 Most important symptoms and effects, both acute and delayed

No data available

(Continued on page 24)

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media: dry chemical powder, water spray, fog or alcohol-resistant foam

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for fire fighters

Wear self-contained breathing apparatus and full turnout gear if necessary

5.4 Further information

No further information

6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment; ensure adequate ventilation

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and material for containment and cleaning up

Sweep up and shovel; keep in suitable and closed container for disposal

6.4 Reference to other sections

For disposal: see section 13

7. Handling and storage**7.1 Precautions for safe handling**

Wear suitable protective clothing; avoid contact with skin, eyes and clothing

7.2 Conditions for safe storage, including any incompatibilities

Store at 2-8°C in a tightly closed container; use original container

7.3 Specific end use(s)

No data available

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

No data available

8.2 Exposure controls**Appropriate engineering controls**

Use general hygiene procedures; use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits; if user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit

Personal protective equipment

Eye/face protection Safety glasses (EN 166)

Skin protection Use gloves; gloves must be inspected before use; wash and dry hands after use.

Body Protection Lab coat / impervious clothing; the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection For most conditions, no respiratory protection is needed; if, however, necessary use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	colourless liquid
Odour	no data available
Odour threshold	no data available
pH	7.4 at 25°C
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	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

Strong oxidizing agents, strong acids

10.6 Hazardous decomposition products

No data available

11. Toxicological information

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity

No data available

Skin corrosion/irritation

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

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

(Continued on page 26)

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation	May be harmful if inhaled; may cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May cause skin irritation.
Eyes	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 of in accordance with federal, state and local environmental control regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product

14. Transport information**14.1 UN-number**

ADR-RID: -	IMDG: -	IATA: -
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14.2 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: -
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14.4 Packaging group

ADR-RID: -	IMDG: -	IATA: -
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14.5 Environmental hazards

ADR-RID:	no
IMDG, water pollutant:	no
IATA:	no

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

15. Regulatory information

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

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

No data available

15.2 Chemical safety assessment

No data available

16. Other information

This information is based on the current state of knowledge.

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