

Material safety data sheet

according to Regulation (EC). N°. 1907/2006

SECTION 1: Identification of the substance/mixture and of the company

- 1.1 Product identifier:** Monoclonal antibodies anti-Microsporidia
Product code: 8100
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Medical device / Laboratory reagents / Immunoassay.
The product is intended for professional use.
These mixtures do not contain nanoforms in their formulation.
- 1.3 Details of the supplier of the safety data sheet**
Manufacturer/ Distributor: Bordier Affinity Products SA
Chatanerie 2, CH-1023 Crissier, Switzerland
Phone: +41 21 633 31 67, Fax: +41 21 633 31 78
E-mail: cb@bordier.ch, Web: www.bordier.ch
- Further information obtainable from:** Safety representative.
- 1.4 Emergency phone number:** Please contact the nearest poison emergency center or the 112 (jour et nuit)

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture**
Classification according to Regulation EC n° 1272/2008 (CLP):
Physical Hazards: not classified.
Health Hazards: not classified.
Environmental Hazards: not classified.
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC:**
Not classified
- 2.2 Label elements**
Label elements: None
Hazard pictograms: None
Signal word: None
Hazard statements: None
Precautionary statement: None
PBT: Not applicable
vPvB: Not applicable

SECTION 3: Composition/information on ingredients

- 3.1 Substances:** N/A
- 3.2 Mixtures**
Chemical characterization: Mixtures do not contain hazardous substances in concentration to be declared.

Material contained in the kit (2x50 assays):

8100-01	Monoclonal antibody anti- <i>Enterocytozoon bienersi</i>	2 x 0.5 ml
8100-02	Monoclonal antibody anti- <i>Encephalitozoon intestinalis</i>	2 x 0.5 ml
8100-03	Fluorescent (488nm) anti-mouse IgG conjugate containing Evans blue	1 x 2 ml

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Description: All components contain sodium azide and thiomersal.
Conjugate n°8100-03 contains Evans blue.

CAS-Nr.	Description of the hazardous ingredients	R-phrases 67/548/EEC	H-mentions EC n° 1272/2008 (CLP)	Concentration
26628-22-8	Sodium azide	T+; R28; R32 N; R50/53	Acute Tox. 2; H300, H310, H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	<0.02%
54-64-8	Thiomersal	T+; R26/27/28; R33 N; R50/53;	Acute Tox. 2; H300, H310, H330, H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	<0.02%
314-13-6	Evans blue	T; R45	Carc. (cat. 1B); H350	<0.0002%

Additional information: The antibodies are of animal origin (goat) and should be handled as potentially infectious.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: No special measures required.
After inhalation: Not applicable.
After skin contact: Wash immediately with plenty of water.
After eye contact: Rinse immediately with plenty of water and seek medical advice.
After swallowing: Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed:

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: There is no specific antidote available. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Extinguishing media - for small fires, Use water spray or alcohol resistant foam, dry powder or carbon dioxide (CO₂).
Extinguishing media - for large fires, alcohol resistant foam or water spray.

Unsuitable extinguishing media: Do not use a concentrated water jet, which could spread the fire.

5.2 Special hazards arising from the substance or mixture:

No further relevant information available.

5.3 Advice for firefighters

Special protective equipment for firefighters:

It is recommended that firefighters wear self-contained breathing apparatus when fires are of chemical origin.

Additional information: Do not allow contaminated firefighting water to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures:

Keep away from food, drinks, and animal feeding stuffs.
Wear suitable protective clothing.

6.2 Environmental precautions:

Must be disposed as hazardous waste.
Avoid release to the environment.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material. (see section 13).

6.4 Reference to other sections: Where appropriate, reference will be made to headings 8 and 13.**SECTION 7: Handling and storage**

7.1. Precautions for safe handling: No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Tips for clustered storage: Not required.

Requirements to be met by storerooms and containers:

No special requirements.

7.3 Specific end use(s)

Additional storage requirements: Not required.

Storage class: None.

Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls and personal protection

8.1 Control parameters: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

Additional tips for the design of technical facilities:

Not required.

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The list that was in effect during the creation of this document was used as basis.

General safety and hygiene- measures:

Keep away from food and drinks.
Take off dirty and soaked clothes immediately.
Wash hands before breaks and after work is completed.

Respiratory protection: Not required.

Hand protection: It is recommended to wear disposable gloves for protection.

Material of gloves: The quality of the protective gloves must be chosen as a function of the specific working place concentration and quantity of hazardous substances. The glove material has to be impermeable and resistant to the product/substance/preparation.

Eye protection: If properly used not required. Recommended during refilling.

Body protection: Lab coat.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: Liquid

Color: Different according to colouring

Odour: Odorless

Odour threshold: Not available

Melting point / range:	Not available
Boiling point / range:	Not available
Freezing point / range:	Not available
Flashpoint, flammability:	Not flammable
Ignition point:	Not ignitable
Self-ignitability:	Not self-ignitable
Explosion hazard:	The product is not explosive
Explosion limits:	Not available
Vapor pressure at 20°C:	Not available
Density at 20°C:	Not available
Solubility in water:	Not applicable
9.2 Other information:	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	No further relevant information available.
10.2 Chemical stability:	Stable under normal conditions
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to be avoided:	No degradation if used according to labeling.
10.5 Incompatible materials:	No further relevant information available.
10.6 Dangerous decomposition products:	No dangerous decomposition products known.

SECTION 11: Toxicological information

The relevant hazard classes, for which information shall be provided, are:

	Sodium azide CAS # 26628-22-8	Evans blue CAS # 314-13-6	Thimerosal CAS # 54-64-8
(a) acute toxicity	LD50 Oral - Rat - 27 mg/kg Remarks: (RTECS) LC50 Inhalation - Rat - male and female - 4 h - 0,054 - 0,52 mg/l (US-EPA) LD50 Dermal - Rabbit - 20 mg/kg Remarks: (RTECS)	No data available	Oral: No data available Acute toxicity estimate Inhalation - 4 h - 0,051 mg/l (Expert judgment) Acute toxicity estimate Dermal - 5,1 mg/kg (Expert judgment)
(b) skin corrosion/irritation	Skin - In vitro study Result: No skin irritation (OECD Test Guideline 439)	No data available	No data available
(c) serious eye damage/irritation	Eyes - Bovine cornea Result: No eye irritation - 4 h (OECD Test Guideline 437)	No data available	No data available
(d) respiratory or skin sensitization	Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429)	No data available	No data available
(e) germ cell mutagenicity	Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster ovary cells. Metabolic activation: with and without metabolic activation. Method: OECD Test Guideline 473. Result: negative. Test Type: unscheduled DNA synthesis assay. Test system: Chinese hamster lung cells. Metabolic activation: without metabolic activation. Method: OECD Test Guideline 482. Result: negative. Test Type: sister chromatid exchange assay. Test system: Chinese hamster ovary cells. Metabolic activation: without metabolic activation. Method: OECD Test Guideline 479. Result: negative.	No data available	Test Type: Ames test system: Salmonella typhimurium Result: negative Remarks: (National Toxicology Program)
(f) carcinogenicity	No data available	ARC: No ingredient of this product present at levels greater than or equal to 0.1% is	No data available

		identified as probable, possible or confirmed human carcinogen by IARC.	
(g) reproductive toxicity	No data available	Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.	No data available
(h) STOT-single exposure	No data available	No data available	No data available
(i) STOT-repeated exposure	No data available	No data available	No data available
(j) aspiration hazard:	Oral - May cause damage to organs through prolonged or repeated exposure. - Brain	No data available	No data available
Additional Information	RTECS: VY8050000 Nausea, Headache, Vomiting, Laboratory experiments in animals have shown sodium azide to produce a profound hypotensive effect, demyelination of myelinated nerve fibers in the central nervous system, testicular damage, blindness, attacks of rigidity, and hepatic and cerebral effects., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	RTECS: Not available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Danger of cumulative effects.

Primary irritant effect: **on the skin:** None

on the eye: None

Sensitization: No sensitizing effect known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

SECTION 12: Ecological information

12.1 Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability:

No further relevant information available.

12.3 Bio accumulative potential: No further relevant information available.

12.4 Mobility in soil:

No further relevant information available.

Water hazard class 1 (German regulation): slightly hazardous for water.

Do not allow undiluted products and large amounts to reach ground

water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties:

No further relevant information available.

12.7 Other adverse effects:

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Products:

Cannot be disposed with household waste.

Cannot reach sewage system.

Should be disposed in hazardous waste container.

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Contaminated packaging: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number

UN-Number: -

UN proper shipping name: -

14.2 UN proper shipping name

Transport by road/rail ADR/RID: No dangerous good in sense of this transport regulation.

Transport by sea IMDG: No dangerous good in sense of this transport regulation.

Transport by air IATA-DGR and ICAO-TI:

No dangerous good in sense of this transport regulation.

14.3 Transport hazard class: -

14.4 Packing group: -

14.5 Environmental hazards: 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.

Transport/Additional information: Not dangerous according to the above specifications.

This product is part of a kit. Information in this section refers to the kit as a whole.

SECTION 15: Regulatory information

15.1 Classification according to EU-Directives:

The product is classified and labeled according to EU-guidelines.

Code letter and hazard designation of product:

None.

Hazard-determining components for labelling:

None.

R-phrases: None.

H-statements: None.

Water hazard class: Water hazard class 1 (German regulation): slightly hazardous for water.

SECTION 16: Other information

Full text of R-phrases and H-statements appearing in point 3:

R 26: Very toxic by inhalation

R 27: Very toxic in contact with skin

R 28: Very toxic if swallowed

R 32: Contact with acids liberates very toxic gas

R 33: Danger of cumulative effects

R 45: May cause cancer

R 50: Toxic to aquatic organisms

R 53: May cause long-term adverse effects in the aquatic environment

H 300: Fatal if swallowed

H 310: Fatal in contact with skin

H 330: Fatal if inhaled

H 350: May cause cancer

H 373: May cause damage to organs through prolonged or repeated exposure

H 400: Very toxic to aquatic life

H 410: Very toxic to aquatic life with long-lasting effects

Full text for other abbreviations

AcuteTox.: Acute toxicity

Aquatic Acute: Short-term (acute) hazard to the aquatic environment

Aquatic Chronic: Long-term (chronic) hazard to the aquatic environment

Eye Dam.: Serious eye damage

Eye Irrit.: Eye irritation

Skin Irrit.: Skin irritation

Skin Sens.: Skin sensitization

STOT SE: Specific target organ toxicity - single exposure

CH SUVA: Switzerland. Workplace exposure limit values

CH SUVA / VME: average exposure value

The information provided in this Material Safety Data Sheet (MSDS) is believed to be accurate and represents the best information currently available to us. This MSDS does not provide any guarantee on product properties and does not constitute any legal relationship.