Material safety data sheet
according to Regulation (EC). N°. 1907/2006

<table>
<thead>
<tr>
<th>Parasitic diseases complete ELISA kits</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Aspergillus fumigatus</em> complete ELISA kit</td>
<td>6100</td>
</tr>
<tr>
<td><em>Toxocara canis</em> complete ELISA kit</td>
<td>9200</td>
</tr>
<tr>
<td><em>Ascaris</em> complete ELISA kit</td>
<td>9250</td>
</tr>
<tr>
<td><em>Echinococcus multilocularis Em2-Em18</em> complete ELISA kit</td>
<td>9300</td>
</tr>
<tr>
<td><em>Echinococcus multilocularis Em18</em> complete ELISA kit</td>
<td>9310</td>
</tr>
<tr>
<td><em>Echinococcus granulosus</em> complete ELISA kit</td>
<td>9350</td>
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<tr>
<td><em>Acanthocheilonema viteae</em> complete ELISA kit</td>
<td>9400</td>
</tr>
<tr>
<td><em>Strongyloides ratti</em> complete ELISA kit</td>
<td>9450</td>
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<tr>
<td><em>Leishmania infantum</em> complete ELISA kit</td>
<td>9500</td>
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<tr>
<td><em>Entamoeba histolytica</em> complete ELISA kit</td>
<td>9550</td>
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<tr>
<td><em>Schistosoma mansoni</em> complete ELISA kit</td>
<td>9600</td>
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<tr>
<td><em>Fasciola hepatica</em> complete ELISA kit</td>
<td>9650</td>
</tr>
<tr>
<td><em>Taenia solium</em> complete ELISA kit</td>
<td>9700</td>
</tr>
<tr>
<td><em>Trichinella spiralis</em> complete ELISA kit</td>
<td>9750</td>
</tr>
<tr>
<td><em>Anisakidae</em> complete ELISA kit</td>
<td>9800</td>
</tr>
</tbody>
</table>

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

1.1 Product identifier: Parasitic diseases complete ELISA kits (listed above).
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 nanoparticles 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 112 (day and night)

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:

Hazard pictograms: Xi may cause irritation (alkaline)
Signal word: None
Hazard statements: None
Precautionary statement: None
PBT: Not applicable
vPvB: Not applicable

2.3 Others hazards None

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 (96 assays):

| ****-01 | Breakable ELISA strips sensitized with antigens | 96 wells |
| ****-02 | Dilution buffer (10 x) concentrate | 50 ml |
| ****-03 | Washing solution (10 x) concentrate | 50 ml |
| ****-04 | Enzyme buffer | 50 ml |
| ****-05 | Stopping solution (K₃PO₄) | 25 ml |
| ****-06 | Negative control serum | 200 µl |
| ****-07 | Weak positive serum (cut off) | 200 µl |
| ****-08 | Positive control serum | 200 µl |
| ****-09 | Protein A-alkaline phosphatase conjugate | 300 µl |
| ****-10 | Phosphatase substrate | 20 tablets |

Description:
Dilution buffer****-02 contains sodium azide and thiomersal.
Washing solution n****-03 contains sodium azide.
Enzyme buffer n****-04 contains sodium azide.
Stopping solution n****-05 contains potassium phosphate, tribasic.
Control sera n****-06, -07 and -08 contain sodium azide and thiomersal.
Conjugate n****-09 contains sodium azide and thiomersal.

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<tr>
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</thead>
<tbody>
<tr>
<td>26628-22-8</td>
<td>Sodium azide</td>
<td>T+; R28; R32 N; R50/53</td>
<td>Acute Tox. 2; H300, H310, H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410</td>
<td>&lt;0.1%</td>
</tr>
<tr>
<td>54-64-8</td>
<td>Thiomersal</td>
<td>T+; R26/27/28; R33 N; R50/53;</td>
<td>Acute Tox. 2; H300, H310, H330, H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410</td>
<td>&lt;0.02%</td>
</tr>
<tr>
<td>27176-10-9</td>
<td>Potassium phosphate tribasic monohydrate</td>
<td>C; R38; R41</td>
<td>Skin irritation 2; H315 Serious eye damage 1; H318</td>
<td>10%</td>
</tr>
</tbody>
</table>
Additional information: The control sera are of animal origin (rabbit and dog only for product 9500) 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:
Contain spill. Clean carefully with absorbent paper and dispose of it according to regulations. (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, dried or solid
Colour: Different according to colouring
Odour: Odourless
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 labelling.

### 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:

<table>
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<tr>
<th>Sodium azide</th>
<th>Potassium phosphate tribasic monohydrate</th>
<th>Thimerosal</th>
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<tbody>
<tr>
<td>CAS # 26628-22-8</td>
<td>CAS # 27176-10-9</td>
<td>CAS # 54-64-8</td>
</tr>
</tbody>
</table>

### (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)
- **LD50 Oral - Rat**: 4.500 mg/kg
- **LD50 Dermal - Rabbit**: 4.640 mg/kg

### (b) skin corrosion/irritation
- **Skin - In vitro study Result**: No skin irritation (OECD Test Guideline 439)
- **Skin - Rabbit Result**: Skin irritation

### (c) serious eye damage/irritation
- **Eyes - Bovine cornea Result**: No eye irritation - 4 h (OECD Test Guideline 437)
- **Eyes - Rabbit Result**: Severe eye irritation

### (d) respiratory or skin sensitization
- **Local lymph node assay (LLNA) - Mouse Result**: negative (OECD Test Guideline 429)
- **Local lymph node assay (LLNA) - Rabbit Result**: Skin irritation

### (e) germ cell mutagenicity
- **Test Type**: Ames test Test system: Salmonella typhimurium Result: negative Remarks: (National Toxicology Program)

### (f) 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.
- **No data available**

### (g) reproductive toxicity
- **No data available**

### (h) STOT-single exposure
- **No data available**

### (i) STOT-repeated exposure
- **No data available**

### (j) aspiration hazard:
- **Oral - May cause damage to organs through prolonged or repeated exposure. - Brain**
- **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 **RTECS: TC8450000 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**: Component no****-05 is irritant.
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.
Contaminated packaging: Disposal must be made according to official regulations.

**SECTION 14: Transport information**

14.1 UN number or ID number
UN-Number: -
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 Safety, health and environmental regulations/legislation specific for the substance or mixture Classification according to EU-Directives:

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

**Code letter and hazard designation of product:**

R41.

**Hazard-determining components for labelling:**

- **R-phrases:** Irritating to eyes.
- **S-phrases:** None.
- **Water hazard class:** Water hazard class 1 (German regulation): slightly hazardous for water.

**5.2 Chemical Safety Assessment:** For this product a chemical safety assessment was not carried out.

**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 38: Provokes the skin
- R 41: Risk of serious damage to eyes
- 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 315: Cause skin irritation
- H 318: Cause serious eye damage
- H 330: Fatal if inhaled
- 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.