

# Material Safety Data Sheet

According to EC-direction 91/155/EEC



Date of issue: October 2013

## 1. Product Identification and Identification of the Company

### Identification of the product

**Product Name:** B-TeZ IAC Aflatoxin, B-TeZ IAC Aflatoxin M1, B-TeZ IAC Ochratoxin, B-TeZ IAC Zearalenon; B-TeZ IAC Deoxynivalenol; B-TeZ IAC Fumonison, B-TeZ IAC T2/HT2; B-TeZ IAC Combi AOZDFT for LC-MS/MS, B-TeZ IAC Combi Aflatoxin + Ochratoxin B-TeZ IAC Combi Aflatoxin + Ochratoxin +Zearalenon, B-TeZ IAC Combi Deoxynivalenol + Zearalenon

**Product Numbers:** BTAF310005, BTA FM311005, BTOT312005, BTDO313005, BTFU314005, BTZE315005, BTTE316005, BTCA321005, BTCZ322005, BTCD323005, BTCM326005

### Manufacturer / Supplier Identification

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## 2. Composition / Information on Ingredients

- **Columns** for purification chemicals in extracts of foodstuffs (**cartridge** with various fittings solid plastic)
- **Gel-Particles** with covalently bound monoclonal antibodies against not that itself mycotoxins - one filtration medium for biomolecules (Gel particles – macroporous bead cellulose)
- **Binding Buffer** (phosphate buffered salt (PBS) with preservative substances)

### 2.1. Chemical Characterization of Components

Name	% by Weight	Hazard Class
• <b>Columns – Cartridges</b> with various fittings all are made of solid plastic material <b>polypropylene</b> – as box no hazardous component		
• <b>Gel-Particles – Perloza</b> macroporous bead <b>cellulose</b> , covalently bound <b>monoclonal antibodies</b> against and not itself mycotoxins – as column gel no hazardous component		

2.1. Chemical Characterization of Components			
Name	CAS#	% by Weight	Hazard Class
<ul style="list-style-type: none"> <li><b>Binding Buffer</b> phosphate buffered salt -PBS with preservative substances</li> </ul>			
sodium chloride	7647-14-5	0,9	
disodium phosphate	10028-24-7	0,9	
monopotassium phosphate	7778-77-0	0,1	
1. preservative substance sodium azid	26628-22-8	0,05	6.1
2. preservative substance 2-methyl-4-isothiazolin-3-one(MIT) Hydrochloride	26172-54-3	0,03	8

2.2. Hazard of Components in the Composition	
Name	Hazard Characteristic
<ul style="list-style-type: none"> <li><b>Columns – Cartridges</b></li> </ul>	Cartridges (reservoirs) with various fittings, all are made of solid plastic <b>polypropylene</b> - safety close as box - no hazardous
<ul style="list-style-type: none"> <li><b>Gel-Particles – Perloza</b></li> </ul>	Perloza Gel - macroporous bead <b>cellulose</b> with covalently bound monoclonal antibodies against not itself mycotoxins - no hazardous
<ul style="list-style-type: none"> <li><b>Binding Buffer (PBS)</b></li> </ul>	phosphate buffered salt solution in water (PBS) contain preservative substances- safety close in cartridge
1 <sup>st</sup> preservative substance sodium azid	very toxic if swallowed, contact with acids liberates toxic gas, the substance is contained in PBS only very low concentration
2 <sup>nd</sup> preservative substance 2-methyl-4-isothiazolin-3-one (MIT)	causes burns, irritating to eyes, to respiratory system and to skin, danger of serious and possible risks of irreversible effects, risk of damage to eyes and may cause sensibilization by inhalation the substance is contained in PBS only very low concentration

3. Hazard Identification	
<b>Physical State and Appearance:</b>	<b>IAC-columns</b> exist as boxes and consist of cartridges with various fittings all are made of solid plastic material, these boxes contain the Gel of one filtration medium Perloza - bead cellulose in binding buffer with covalently bound monoclonal antibodies The columns with gel and buffer are safety close in boxes and no hazardous. The <b>problem</b> are the <b>preservative substances</b> contained in <b>binding buffer</b> of the Gel bed. These are hazardous, but contained in the buffer only <b>very low concentrations</b> and so <b>no hazardous</b> .
<b>Routes of Entry:</b>	Only buffer take off the column box has a hazardous effect on skin or eye by contact from splashes, on respiratory system from swallows. For total column boxes that not available. The concentration of hazardous substances in the buffer is only very lower and the buffer no hazardous.
<b>Potential Acute Health Effects</b>	
<b>Eyes:</b>	Less hazardous
<b>Skin:</b>	Less hazardous
<b>Inhalation:</b>	Not applicable
<b>Ingestion:</b>	Less hazardous
<b>Potential Chronic Health Effects</b>	
<b>Carcinogenic:</b>	Less hazardous
<b>Mutagenic:</b>	Not applicable
<b>Teratogenic:</b>	Not applicable
<b>Medical Conditions:</b>	Permanent exposure is not known to aggravate medical condition.
<b>Health Effects:</b>	Adverse health effects are not expected from the recommended use of these products.

4. First Aid Measures	
<b>General Indications</b>	
<b>Skin Contact:</b>	Avoid skin contact. If skin contact occurs, wash contaminated skin with soap and water and remove contaminated clothing. Get medical attention, if the skin becomes irritated.
<b>Eye Contact:</b>	Check for and remove any contacted lenses. In case of contact, flush contaminated eye(s) with large volumes of water for at least 15 minutes.
<b>Ingestion:</b>	No adverse effects are reasonable anticipated, however, if any symptoms occur, keep victim warm and calm. Get medical attention.

5. Fire-Fighting Measures	
<b>Flammability of the Products:</b>	May be combustible at high temperature ( > 200°C).
<b>Suitable extinguishing Media:</b>	None restriction (powder, foam, spray water, carbon dioxide)
<b>Unsuitable extinguishing Media:</b>	Do not use water jet.
<b>Protective Clothing (Fire):</b>	Be sure to use an approved / certified respirator or equivalent.

6. Accidental Release Measures	
<b>Actions in Case Material is Released or Spilled</b>	
<b>Precautionary measures:</b>	Do not inhale vapours and aerosols
<b>Procedures for cleaning:</b>	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Use an absorbent material to contain or pick up the spilled solution. Finish cleaning by spreading water on contaminated surface. Place materials into a suitable container.

7. Handling and Storage	
<b>Handling:</b>	Avoid breathing dust.
<b>Storage:</b>	Container is shrink-wrapped foil bag with a desiccant capsule. Keep container tightly closed and in a cool area (at + 5°C).

8. Exposure Controls and Personal Protection	
<b>Engineering Controls:</b>	Supplemental ventilation is not required for use of this product. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
<b>Personal Protection:</b>	
<b>Respiratory:</b>	Not applicable.
<b>Hands:</b>	Rubber or chemical resistant gloves.
<b>Eyes:</b>	Chemical safety goggles
<b>Body:</b>	Lab coat (lab clothing)
<b>Hygiene:</b>	Change contaminated clothing. Wash hands after working

<b>9. Physical and Chemical Properties</b>	
<b>Physical State Appearance:</b>	Solid. Plastic box with precipitate and buffer solution safety close
<b>Color:</b>	Colorless , white , orange and red.
<b>Odor:</b>	Not applicable
<b>Taste:</b>	Not applicable
<b>Molecular Weight:</b>	Not applicable
<b>Dispersion Properties:</b>	Not applicable
<b>Solubility:</b>	Not applicable

<b>10. Stability and Reactivity</b>	
<b>Stability and Reactivity:</b>	The products are stable under normal handling and storage conditions.
<b>Conditions to Avoid / Stability:</b>	Excess heat, flame or pressure.
<b>Incompatibility with Substances:</b>	Not applicable
<b>Hazardous Decomposition Products:</b>	Not applicable
<b>Hazardous Polymerization:</b>	Will not occur.

<b>11. Toxicological information</b>	
<b>Toxic Effects on Humans:</b>	No specific information is available regarding other toxic effects of these product materials for human.
<b>Reproductive Effects:</b>	Not applicable
<b>Carcinogenicity:</b>	No

<b>12. Ecological information</b>	
<b>Environmental Fate / Mobility:</b>	Not applicable
<b>Effect of Products on Plants or Animals:</b>	Not applicable
<b>Effect of Chemical on Aquatic Life:</b>	Not applicable

<b>13. Disposal considerations</b>	
<b>Waste Information:</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations..
<b>Waste Stream:</b>	Not applicable

**Consult your local or regional authorities.**

**14. Transport Information**

<b>Special Provisions for Transport:</b>	No subject to transport regulations.
<b>DOT Classification:</b>	Not regulated.
<b>ADR / RID Classification:</b>	Not controlled under ADR (Europe).

**15. Regulatory Information**

<b>Regulations:</b>	This product is even not duty to labeling according to Dangerous Substance Regulation (GefStoffV).
<b>International Regulations</b>	
<b>DSCL (EEC):</b>	This product is not classified according to the EU regulations.
<b>International Lists:</b>	No product were found.

**16. Other information**

Validated by BioTeZ Administration on October 2012

Notice to Reader:

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. However the above named supplier assumes any liability whatever for the accuracy or completeness of the information contained herein. It does not represent a guarantee of the properties of the product. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be use with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.