

Material Safety Data Sheet

According to EG 1907/2006, article 31

Version: 03, Revision Date: 28.10.2020

For Product:



Stop solution (1M H₂SO₄) of the kits

B-TEZ ELISA Deoxynivalenol

Order Code: BTDOEK-001

and

B-TEZ ELISA Aflatoxin B1

Order Code: BTAFEK-001 and

1. Product and Company Identification

Product Information:

- **Product Name:** Stop solution (1M H₂SO₄) of the kits B-TeZ ELISA Deoxynivalenol and B-TeZ ELISA Aflatoxin B1
- **Product Code:** STOP-H₂SO₄ in BTDOEK-001 and BTAFEK-001
- **Use of the material / preparation:**
Laboratory reagent / Immunoassay
The product is intended for the professional user.

Manufacturer / Supplier:

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Further Information provider: Safety Personnel

Emergency contact: +49-30-9489 2130

2. Hazards Identification

STOP solution contains Sulfuric acid (2N= 1M Sulphuric acid)

• Classification acc. to GHS

Hazard class	Hazard class and category	Hazard statement
substance or mixture corrosive to metals	(Met. Corr. 1)	H290
skin irritation	(Skin irritation 2)	H315
eye irritation	(Eye irritation 2)	H319

• Labelling GHS

Signal word: Warning

Pictograms: GHS05



Hazard Statement(s):

H290 May be corrosive to metals

H315 Causes skin irritation

H319 Causes serious eye irritation

Precautionary statements

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Hazardous ingredients for labelling: Sulphuric acid

Other hazards

There is no additional information.

3. Composition / Information on ingredients

Mixtures

Description of the mixture: Aqueous sulphuric acid solution.

Name of sub-stance	Identifier	wt %	Classification acc. to 1272/2008/EC	Pictogram	Specific concentration limits
Sulphuric acid	CAS No. 7664-93-9 EC No. 231-639-5 Index No. 016-020-00-8 REACH Reg. No. 01-2119458838-20-xxxx	>=5 - < 10	Met. Corr. 1 / H290 Skin Corr. 1A / H314		Skin Corr. 1A; H314: C ≥ 15 % Skin Irrit. 2; H315: 5% ≤ C < 15 % Eye Dam. 1; H318: C ≥ 15 % Eye Irrit. 2; H319: 5 % ≤ C < 15 %

• **Additional Information:**

For the wording of the listed risk phrases, refer to section 16.

4. First-aid measures

- **General information:** Consult a physician. Show this safety data sheet to the doctor in attendance.
- **After inhalation:** Supply fresh air, consult a physician.
- **After skin contact:** Rinse with water, consult a physician.
- **After eye contact:** Rinse the eyes with open eye lids for several minutes under running water, consult a physician.
- **After ingestion:** Seek immediate medical attention.
- **Most important symptoms and effects, both acute and delayed**
irritant effects, Circulatory collapse

5. Fire fighting measures

- **Suitable extinguishing agents:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
CO₂, extinguishing powder or water spray. Major fires should be fought with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** Not combustible. Ambient fire may liberate hazardous vapours. Fire may cause evolution of: sulphur oxides
- **Advice for firefighters:** Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
- **Further information:**
Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

- **Protective equipment and emergency procedures**
Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
Advice for emergency responders: Protective equipment see section 8.
- **environmental protection:** Avoid contamination of water or soil.
- **Methods and materials for containment and cleaning up** **Cover drains.** Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent and neutralising material (e.g. Chemizorb®H⁺, Merck Art. No. 101595). Dispose of properly. Clean up affected area. Absorb with absorbent material and dispose as hazardous waste.

7. Handling and Storage

Precautions for safe handling:

- **Advice on safe handling:** Observe label precautions.
- **Hygiene measures:** Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance

- ## 8. Exposure controls and personal protective equipment

- **Other protective equipment:** Acid-resistant protective clothing
- **Respiratory protection** required when vapours/aerosols are generated.
Recommended Filter type: Filter P 2 for solid and liquid particles of harmful substances
- **Environmental exposure controls:** Do not let product enter drains.

- **Form:** Liquid
- **Colour:** Colourless
- **Odour:** Odourless
- **Odour Threshold:** Not applicable
- **pH:** approx. 1 at 20°C

- **Melting point / Melting range:** Not determined.
 - **Boiling point / Boiling range:** ~ 100 °C
 - **Flash Point:** No information available.
 - **Evaporation rate:** No information available.
 - **Flammability (solid,gas):** Not applicable.
 - **Lower explosion limit:** No information available
 - **Upper explosion limit:** No information available.
 - **Vapor pressure** No information available.
 - **Relative vapor density:** No information available.
 - **Density:** 1.1 g/cm³
 - **Relative density:** No information available.
 - **Solubility in water:** Soluble (development of heat).
 - **Partition coefficient: n-octanol/water:** No information available.
 - **Auto-ignition temperature:** No information available.
 - **Decomposition temperature:** No information available.
 - **Viscosity, dynamic:** No information available.
 - **Explosive properties:** Not classified as explosive.
 - **Oxidizing properties:** Oxidizing potential.
- Other data:**
- **Corrosion:** May be corrosive to metals.

10. Stability and reactivity:

- **Reactivity:** Oxidizing agents
- **Chemical Stability:** The product is chemical stable under standard ambient conditions
- **Possibility of hazardous reactions:**
Violent reactions possible with: water, alkali metals, alkali compounds, ammonia, alkalines, metals, alkaline earth metals, alkaline earth compounds, metal alloys, acids
- **Conditions to Avoid / Stability:** No information available.
- **Incompatibility with Substances:** animal/vegetable tissues, metals
Gives off hydrogen by reaction with metals.
- **Dangerous products of decomposition:** In the event of fire see section 5.

11. Information on Toxicology:

Mixture

- **Acute oral and dermal toxicity:** Not available.
- **Acute inhalation toxicity:** Symptoms: possible damages, mucosal irritations
- **Primary irritant effect**
On the skin: Mixture causes skin irritation.
On the eye: Mixture causes serious eye irritation.
- **Sensitization:** Not available.
- **Germ cell mutagenicity:** Not available.
- **Carcinogenicity:** Not available.
- **Reproductive toxicity:** Not available.
- **Teratogenicity:** Not available.
- **Specific target organ toxicity-single exposure:** Not available.
- **Specific target organ toxicity-repeated exposure:** Not available.
- **Aspiration hazard:** Not available.

Further information:

After inhalation of vapours: irritative symptoms in the respiratory tract. After skin contact: severe irritations. After eye contact: corneal destruction. After swallowing: damage of the oral, oesophageal, and gastric mucous membranes. Perforation of the oesophagus

frequently occurs. Circulatory collapse may occur after 1-2 hours. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

12. Information on Ecology

Mixture

- **Toxicity:** No information available.
- **Persistence and degradability:** No information available.
- **Mobility in soil:** No information available.
- **Results of PBT and vPvB assessment:** Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.
- **Other adverse effects:**
Additional ecological information
Harmful effect due to pH shift. Neutralisation possible in waste water treatment plants.
Discharge into the environment must be avoided.

Components: sulphuric acid

Toxicity to fish:

static test LC50 *Lepomis macrochirus* (Bluegill sunfish): > 16 - < 28 mg/l; 96 h
Analytical monitoring: yes
(ECHA)

Toxicity to daphnia and other aquatic invertebrates:

static test EC50 *Daphnia magna* (Water flea): > 100 mg/l; 48 h
Analytical monitoring: yes
OECD Test Guideline 202

Toxicity to algae:

static test EC50 *Desmodesmus subspicatus* (green algae): > 100 mg/l; 72 h
Analytical monitoring: yes
OECD Test Guideline 201

Toxicity to fish (Chronic toxicity):

flow-through test NOEC *Cyprinodon* sp. (minnow): 0,025 mg/l; 65 d
Analytical monitoring: yes
(ECHA)

13. Information on Disposal

- **Product:** Disposal in accordance with applicable regulations.
- **Contaminated packaging:** Disposal in accordance with applicable regulations.
- **Recommended cleaning agent:** Water.

14. Transport information

- **Land transport (ADR/RID):**

UN#: 2796
Proper shipping name: SULPHURIC ACID
Class: 8
Packing group: II
Environmentally hazardous: -
Special precautions user: Yes
Tunnel restriction code: E

- **Inland waterways (ADN / ADR):**

UN#: 2796
Proper Shipping Name: SULPHURIC ACID
Class: 8
PG: II

- **Maritime transport (IMDG):**

UN#: 2796
Proper shipping name: SULPHURIC ACID
Class: 8
Packing group: II
Environmentally hazardous: -
Special precautions user: Yes

- **Air transport (IATA):**

UN#: 2796
Proper shipping name: SULPHURIC ACID
Class: 8
Packing group: II
Environmentally hazardous: -
Special precautions user: No

- **Transportation in bulk according to Annex II of MARPOL73/78 and IBC: Not applicable.**

15. Regulatory Information

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

Labelling according to EC regulation:

Regulation (EC) No. 1272/2008 (CLP)

(CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures)

The following regulations apply for the STOP solution:



GHS05 with signal word: Warning

Hazard Statement(s):

H290: May be corrosive to metals.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary statement(s):

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

• Special designation of certain preparations:

Safety data sheet available for professional users.

National regulations:

- **Classification according to regulation of industrial safety:** -

16. Other Information

The contained information 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 contain unknown hazards and should be used with caution. Although certain hazards are mentioned above, we cannot guarantee that these are the only hazards that exist.

Relevant Hazard Statement(s): referred to section 2 and 3

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Department issuing MSDS: Safety Personnel

Contact: BioTeZ Berlin-Buch GmbH

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures