

Material Safety Data Sheet

According to Regulation (EC) No.1907/2006 (REACH)

Version: 04, Revision Date: 04.04.2018

For Product:



recoveryELISA TNFα Neutralization Rate/Adalimumab Kit (RTA)

1. Product and Company Identification

Product Information:

• Product Name: recovery ELISA TNFα Neutralization Rate/Adalimumab Kit (RTA)

• Product Code: R222

• Use of the material / preparation:

Laboratory reagent / Immunoassay

The product is intended for the professional user.

Manufacturer / Supplier:

BioTeZ Berlin-Buch GmbH

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Further Information provider: Safety Personnel

Emergency contact: +49-30-9489 2130

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2. Potential Hazards

The product contains the hazardous component **Stopping solution**, labeled **RT-STOP-**H₂SO₄ with <10% sulfuric acid.

The kit contains the following components.

Component	Description	Volume	Safety information
microtiter plate	Polystyrol plate	1 plate, 8 x 12 strips	No hazards
Sample dilution buffer	liquid	1 x 6 ml	No hazards
TNFa concentrate,	powder	1 x	No hazards
lyophilized			
TNFa dilution buffer	liquid	1 x 7.0 ml	No hazards
Therapy antibody	liquid	4 x 0.8 ml	No hazards
calibrator 0-3			
Anti-TNF antibody	liquid	1 x 6 ml	No hazards
HRP conjugate			
Control	liquid	1 x 0.8 ml	No hazards
TMB reagent	liquid	1 x 12 ml	No hazards
Stopping solution	liquid	1 x 3 ml	hazardous
Washing buffer	liquid	1 x 30 ml	No hazards
concentrate (10x)			
Plate sealer	-	1 x	No hazards

Sample dilution buffer, TNFa concentrate (Lyophilisate), Therapy antibody calibrators 0-3, Control, Anti-TNF antibody HRP conjugate and Washing buffer concentrate containing ProClin 300. TMB reagent contains Tetramethylbenzidine.

Dangerous components: Stopping solution with label RT-STOP-H₂SO₄ contains <10% sulfuric acid

REACH-Register-No.: 01-2119472430-46-XXXX

EINECS: 231-639-5 CAS: 7664-93

Classification system according Regulation (EC) No.1272/2008 (CLP):

GHS05 Corrosivity

Corrosive to metals 1 H290: May be corrosive to metals. H315: Causes skin irritation. Irritation of skin 2

Irritation of eyes 2 H319: Causes serious eye irritation.

Labelling according to Regulation (EC) No.1272/2008: **Stopping solution (1M H₂So₄)** with hazard pictogram:

GHS05 Signal word: Warning

Hazard Statement(s):

H290: May be corrosive to metals.

H315: Causes skin irritation.

H319: Causes serious eve irritation.

Precautionary statement(s):

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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

Remove contact lenses if present and easy to do – continue rinsing.

P337+P313: Get medical advice/attention.

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

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3. Composition / Information on ingredients

Chemical characterization (Preparation)

All liquid components are mixtures.

Description:

Sample dilution buffer, TNFa concentrate solution, Therapy antibody calibrators 0-3, Control, Anti-TNF antibody HRP conjugate and Washing buffer concentrate containing ProClin 300. TMB reagent contains Tetramethylbenzidine. Stopping solution contains sulphuric acid.

Hazardous Substances:

Registry Number CAS and EINECS	Chemical name (pure ingredients)	Hazard symbol/ Hazard statements (*)	Quantity in components
CAS: 7664-93-9 EINECS: 231-639-5	Sulphuric acid	Danger, Corrosive to metals 1; H290 Irritation of skin 2; H315, Irritation of eye 2; H319	< 10% in Stopping solution
CAS: 54827-17-7 EINECS: 259-364-6	3,3',5,5'- Tetramethyl- benzidine	Warning H315-319-335	<0,05% in TMB regent
CAS-Nr.: 55965-84-9	2.3% 5-Chlor-2-methyl-2H-isothiazoline-3-on 0.70 % 2-Methyl-4-isothiazoline-3-on	Danger H302-314-317-332-400-411	<0,05% in components: Sample dilution buffer, TNFa concentrate solution, Therapy antibody calibrators 0-3, Control, Anti- TNF antibody HRP conjugate and Washing buffer concentrate

(*): according to EC regulation No 1272/2008

Additional Information:

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

4. First-aid measures

- General information: No special measures required.
- After inhalation: Supply fresh air, consult a physician.
- After skin contact: Rinse with water, consult a physician. Caution with *Stopping solution* (classified as skin irritant).
- 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.

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5. Fire fighting measures

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Major fires should be fought with water spray or alcohol resistant foam.

• Protective equipment: No special measures required.

6. Accidental release measures

- Personal safety precautions: Use personal protective equipment. Avoid breathing vapor.
- environmental protection: Avoid contamination of water or soil.
- **Measures for cleaning / collecting:** Absorb with absorbent material and dispose as hazardous waste.

7. Handling and Storage

Handling:

- Information on safe handling: No special measures required.
- Precautions against fire and explosion: No special measures required.

Storage:

- Requirements for storage rooms and containers: No special requirements.
- Common Storage: Keep away from food.
- Further information on storage conditions:

The kit should be stored at 2-8 ° C.

Protect from heat and direct sunlight. Information on storage and stability of prepared reagents is stated in the relevant chapters of the manual.

- Storage class: 8B for Stopping solution
- General Classification Guideline for Preparations of the EC : no special requirements

8. Exposure controls and personal protective equipment

Components with critical values that require monitoring at the workplace:

The product contains no relevant quantities of materials with critical values that require monitoring at the workplace.

Personal protective equipment:

General protective and hygiene measures:

The usual precautions for handling chemicals are observed.

- Respiratory protection: Not required.
- Protection of hands: Protective gloves.
- **Glove material:** Chemical protective gloves should be selected according to the requirements of workplaces. The glove material has to be impermeable and resistant. Note the details about the product/ substance / preparation.
- Eye protection: Safety glasses are recommended.
- Body protection: Lab coat

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9. Physical and chemical properties:

General information:

Form: LiquidsColour: VariedOdor: Odorless

Change in condition:

- Melting point / Melting range: Not determined.
- Boiling point / Boiling range: Not determined.
- Flash Point: Not applicable.
- Self-igniting: Product is not explosive.
- Danger of explosion: Product is not explosive.
- **Density:** Not determined.
- Solubility in / Miscibility with water: Miscible.

10. Stability and reactivity:

- Stability and Reactivity: The products are stable under normal handling and storage conditions
- Dangerous reactions: Not known.
- Conditions to Avoid / Stability: Excess heat, flame or pressure.
- Incompatibility with Substances: Not applicable.
- Dangerous products of decomposition: Not known.

11. Information on Toxicology:

Acute toxicity: Not available.

Primary irritant effect

- On the skin: No irritation effect known.
 - Single-component Stopping solution: GHS05 corrosivity
- Inhalation: No irritation effect known.
- Single-component *Stopping solution*: Mucous membrane irritation, coughing and breathlessness.
- On the eye: No irritant effect known. Single-component Stopping solution: GHS05
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

To our knowledge, the product has no harmful effects when handled properly for its intended use.

12. Information on Ecology

Data on the ecological effect of the product are not known.

- Aquatic toxicity: Single-component *Stopping solution* is slightly hazardous to water (Class 1).
- Persistence and degradability: No information.
- Mobility in soil: No information.
- Results of PBT and vPvB assessment: Not applicable.

· Other adverse effects: No.

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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 RID/ADR

UN#: 3316 Class: 9 PG: II

Proper Shipping Name: Chemical kit

Inland waterways ADN / ADR:

UN#: 3316 Class: 9 PG: II

Proper Shipping Name: Chemical kit

Maritime transport IMDG

UN#: 3316 Class: 9 PG: II

Proper Shipping Name: Chemical kit

Marine Pollutant: No

Severe Marine Pollutant: No

Air transport IATA

UN#: 3316 Class: 9 PG: II

Proper Shipping Name: Chemical kit Inhalation Packing Group I: No

• Environmental hazards: Slightly hazardous to water.

Do not allow product to reach ground water, water bodies or sewage system.

- **Special precautions for user:** Observe the general safety regulations when handling chemicals and carefully read the instruction manual of the product.
- Transportation in bulk according to Annex II of MARPOL73/78 and IBC: Not applicable.
- Additional information: Information in this section relate to the kit as a whole.

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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 only for the Stopping 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):

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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

Remove contact lenses if present and easy to do – continue rinsing.

P337+P313: Get medical advice/attention.

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

Special designation of certain preparations:

Safety data sheet available for professional users.

National regulations:

- · Classification according to regulation of industrial safety: -
- Water hazard class: Generally not hazardous to water.
 Single-component Stopping solution is less hazardous to water (Class 1).

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):

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

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H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

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

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