# 1 Identification of substance

- **Product details:**
  - **Trade name:** foodproof® E. coli and Shigella Detection Kit
  - **Article number:** R 300 09 Hybridization Probes (LC 1.x, 2.0)
  - **Application of the substance / the preparation** Detection System Solutions

- **Manufacturer/Supplier:**
  BIOTECON Diagnostics GmbH
  Hermannswerder Haus 17
  14473 Potsdam
  Tel: +49 (0) 331-23 00 200

- **Informing department:**
  Tel: +49 (0) 331-23 00 200
  Fax: +49 (0) 331-23 00 299

- **Emergency information:** Tel: +49 (0) 331-23 00 200

# 2 Hazards identification

- **Hazard designation:** void

- **Information pertaining to particular dangers for man and environment** void

- **Classification system**
  The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

# 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** PCR kit for the qualitative detection of E. coli and Shigella DNA.
- **Dangerous components:** Void

# 4 First aid measures

- **General information**
  Remove contaminated clothing.
  No special measures required.
- **After inhalation**
  Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**
  Instantly wash with water and soap and rinse thoroughly.
  If skin irritation continues, consult a doctor.
- **After eye contact**
  Rinse opened eye for several minutes under running water.
  Call a doctor immediately.
- **After swallowing**
  Do not induce vomiting; instantly call for medical help.

# 5 Fire fighting measures

- **Suitable extinguishing agents**
  Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.

(Contd. on page 2)
6 Accidental release measures

- **Person-related safety precautions:**
  Observe information for safe handling (item 7) and personal protective equipment (item 8).
- **Measures for environmental protection:**
  Do not allow to enter drainage system, surface or ground water.
  Inform respective authorities in case product reaches water or sewage system.
- **Measures for cleaning/collection:**
  Send for recovery or disposal in suitable containers.
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

7 Handling and storage

- **Handling**
  - **Information for safe handling:**
    Store in cool, dry place in tightly closed containers.
    Keep away from heat and direct sunlight.
    Avoid contact with eyes and skin.
  - **Information about protection against explosions and fires:** No special measures required.
- **Storage**
  - **Requirements to be met by storerooms and containers:**
    Store only in the original container.
    Prevent any penetration into the ground.
  - **Information about storage in one common storage facility:**
    Keep away from strong oxidizing, alkalis and acidic materials.
  - **Further information about storage conditions:**
    Store in the dark.
    Protect from the effects of light.

8 Exposure controls and personal protection

- **Components 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 lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
  - **General protective and hygienic measures**
    The usual precautionary measures should be adhered to general rules for handling chemicals.
  - **Breathing equipment:** Not required.
  - **Protection of hands:** Use gloves of stable material (i.e. nitril rubber).
  - **Material of gloves**
    The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - **Penetration time of glove material**
    The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**
    Nitrile rubber, NBR

(Contd. on page 3)
9 Physical and chemical properties

- **General Information**
  - **Form:** Liquid
  - **Colour:** Different according to colour
  - **Odour:** Odourless

- **Change in condition**
  - **Melting point/Melting range:** Not determined
  - **Boiling point/Boiling range:** > 100°C

- **Flash point:** Not applicable

- **Self-inflammability:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive.

- **Density:** Not determined

- **Solubility in / Miscibility with**
  - **Water:** Fully miscible

- **pH-value at 20°C:** ca. 8

- **Solvent content:**
  - **Organic solvents:** 0.0%
  - **Water:** >90%

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
  - No decomposition if used according to specifications.

- **Dangerous reactions**
  - No dangerous reactions known

- **Dangerous products of decomposition:**
  - None in case of intended use and storage in compliance with instructions.

11 Toxicological information

- **Acute toxicity:**

- **Primary irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** No irritant effect.

- **Sensitization:** No sensitizing effect known.

- **Additional toxicological information:**
  - The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.

12 Ecological information

- **Information about elimination (persistence and degradability):**
- **Other information:** There are no data available about the preparation.
- **General notes:**
  - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
13 Disposal considerations

- **Product:**
  - **Recommendation** Smaller quantities can be disposed with household waste.

- **Uncleaned packagings:**
  - **Recommendation:**
    - Disposal must be made according to official regulations.
    - Dispose of packaging according to regulations on the disposal of packagings.
  - **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

- **Land transport ADR/RID (cross-border)**
  - ADR/RID-GGVSE Class: No hazardous good.

- **Maritime transport IMDG:**
  - IMDG Class: No hazardous good.
  - Marine pollutant: No

- **Air transport ICAO-TI and IATA-DGR:**
  - ICAO/IATA Class: Not Restricted.

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

15 Regulatory information

- **Designation according to EC guidelines:**
  - Observe the normal safety regulations when handling chemicals
  - The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials.

- **National regulations**
  - **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing data specification sheet:**
  - This Material Safety Data Sheet has been drawn up in cooperation with:
    - DEKRA Umwelt GmbH, Hanomagstr. 12, D-30449 Hannover,
    - Tel.: +49.511.42079-311.

* Data compared to the previous version altered.