Safety data sheet
according to 1907/2006/EC, Article 31

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

1.1 Product identifier
   · Trade name: foodproof® Norovirus Detection Kit (GI, GII), 5’Nuclease
   · Article number: R 302 38.1

1.2 Relevant identified uses of the substance or mixture and uses advised against
   No further relevant information available.

1.3 Details of the supplier of the safety data sheet
   · Manufacturer/Supplier:
     BIOTECON Diagnostics GmbH
     Hermannswerder Haus 17
     14473 Potsdam
     Phone: +49 (0) 331-23 00 200
     www.bc-diagnostics.com
   · Informing department:
     Phone: +49 (0) 331-23 00 200
     Fax: +49 (0) 331-23 00 299
   · 1.4 Emergency telephone number: Phone: +49 (0) 331-23 00 200

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
   · Classification according to Regulation (EC) No 1272/2008
     The product is not classified according to the CLP regulation.

2.2 Label elements
   · Labelling according to Regulation (EC) No 1272/2008 Void
   · Hazard pictograms Void
   · Signal word Void
   · Hazard statements Void

2.3 Other hazards
   · Results of PBT and vPvB assessment
     · PBT: Not applicable.
     · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
   · Description: Qualitative detection of norovirus RNA.

   Dangerous components:
<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS:</th>
<th>Substance Description</th>
<th>Workplace Exposure Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>56-81-5</td>
<td>200-289-5</td>
<td>glycerol substance with a Community workplace exposure limit</td>
<td>50 - 100%</td>
</tr>
<tr>
<td>57-50-1</td>
<td>200-334-9</td>
<td>sucrose, pure substance with a Community workplace exposure limit</td>
<td>2.5-&lt;10%</td>
</tr>
<tr>
<td>9002-93-1</td>
<td></td>
<td>Triton X-100</td>
<td>≤ 0.25%</td>
</tr>
</tbody>
</table>

(Contd. on page 2)
Trade name: foodproof® Norovirus Detection Kit (GI, GII), 5’Nuclease

SECTION 4: First aid measures

· 4.1 Description of first aid measures
  · General information
    Remove contaminated clothing immediately.
    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.
  · 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
    No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media
  · Suitable extinguishing agents
    Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.
  · 5.2 Special hazards arising from the substance or mixture
    Formation of toxic gases is possible during heating or in case of fire.
  · 5.3 Advice for firefighters
    · Protective equipment: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures
  Observe information for safe handling (item 7) and personal protective equipment (item 8).
· 6.2 Environmental precautions:
  Do not allow to enter drainage system, surface or ground water.
  Inform respective authorities in case product reaches water or sewage system.
· 6.3 Methods and material for containment and cleaning up:
  Send for recovery or disposal in suitable containers.
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
· 6.4 Reference to other sections
  See Section 7 for information on safe handling
  See Section 8 for information on personal protection equipment.
  See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions 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.
 SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Component</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>56-81-5 glycerol</td>
<td>WEL (Great Britain) Long-term value: 10 mg/m³</td>
</tr>
<tr>
<td>57-50-1 sucrose, pure</td>
<td>WEL (Great Britain) Short-term value: 20 mg/m³, Long-term value: 10 mg/m³</td>
</tr>
</tbody>
</table>

· DNELs

<table>
<thead>
<tr>
<th>Component</th>
<th>DNEL (consumer, long-term, systemic)</th>
<th>DNEL (worker, long-term, local)</th>
<th>DNEL (consumer, short-term, local)</th>
</tr>
</thead>
<tbody>
<tr>
<td>56-81-5 glycerol</td>
<td>229 mg/kg bw/day (human)</td>
<td>56 mg/m³ (human)</td>
<td>33 mg/m³ (human)</td>
</tr>
</tbody>
</table>

· Additional information: The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

· Personal protective equipment

· General protective and hygienic measures

The usual precautionary measures should be adhered to general rules for handling chemicals.

· Breathing equipment: Not necessary if room is well-ventilated.

· 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 break through 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

· Eye protection: Safety glasses recommended during refilling.

· Body protection: Wear suitable protective clothing.
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- General Information
  - Appearance: Liquid
  - Colour: Different according to colour
  - Odour: odourless
  - pH-value: Not determined.

- Change in condition
  - Melting point/freezing point: Not determined
  - Initial boiling point and boiling range: > 100 °C

- Flash point: Not applicable

- Self-inflammability: Product is not selfigniting.

- Explosive properties: Product is not explosive.

- Density: Not determined

- Solubility in / Miscibility with Water: Fully miscible

- Solvent content:
  - Organic solvents: 0.0 %

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

- Thermal decomposition / conditions to be avoided:
  No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products:
  None in case of intended use and storage in compliance with instructions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity: Based on available data, the classification criteria are not met.

- LD/LC50 values that are relevant for classification:
  56-81-5 glycerol
  Oral LD50 27200 mg/kg (rat)
  Dermal LD50 56750 mg/kg (guinea pig)
  Inhalative LC50 > 11 mg/l/1h (rat)

- Primary irritant effect:
  - Skin corrosion/irritation: Based on available data, the classification criteria are not met.
  - Serious eye damage/irritation: Based on available data, the classification criteria are not met.
  - Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
  - CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): Based on available data, the classification criteria are not met.
  - Germ cell mutagenicity: Based on available data, the classification criteria are not met.
  - Carcinogenicity: Based on available data, the classification criteria are not met.
Trade name: **foodproof® Norovirus Detection Kit (GI, GII), 5’Nuclease**

(Contd. from page 4)

**SECTION 12: Ecological information**

- **12.1 Toxicity**

  - **Aquatic toxicity:**
    - 56-81-5 glycerol
      - EC50 (static) 1955 mg/l/48h (Daphnia magna)
      - IC5 > 10000 mg/l/7d (Scenedesmus quadricauda)
      - EC5 > 10000 mg/l/16h (Pseudomonas putida)
      - EC5 3200 mg/l/72h (Entosiphon sulcatum)
      - LC50 (static) 54000 mg/l/96h (Oncorhynchus mykiss)

- **12.2 Persistence and degradability** No further relevant information available.

- **Other information:** There are no data available about the preparation.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- **Additional ecological information:**

  - **General notes:**
    - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
    - Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

- **12.5 Results of PBT and vPvB assessment**

  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**

  - **Recommendation:** Proceed according to local, official regulations.

- **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.

**SECTION 14: Transport information**

- **14.1 UN-Number**

  - **ADR, ADN, IMDG, IATA** Void

- **14.2 UN proper shipping name**

  - **ADR, ADN, IMDG, IATA** Void

- **14.3 Transport hazard class(es)**

  - **ADR, ADN, IMDG, IATA** Void

(Contd. on page 6)
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Labelling according to Regulation (EC) No 1272/2008 Void
- Hazard pictograms Void
- Signal word Void
- Hazard statements Void
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 46b
- National regulations

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

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

Relevant phrases
H302 Harmful if swallowed.
H318 Causes serious eye damage.

Department issuing data specification sheet:
This Material Safety Data Sheet has been drawn up in cooperation with:
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
phone: (+49) 511 42079 - 0, reach@dekra.com,
© DEKRA Assurance Services GmbH. Changing this documents is subject to explicit acceptance by DEKRA Assurance Services GmbH.

Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
Trade name: foodproof® Norovirus Detection Kit (GI, GII), 5’Nuclease

ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

(Contd. from page 6)