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

· 1.1 Product identifier
  · Trade name: foodproof® Norovirus Detection Kit (GI, GII, GIV), 5’Nuclease
  · Article number: R 302 38

· 1.2 Relevant identified uses of the substance or mixture and uses advised against
  No further relevant information available.
  · Application of the substance / the mixture Detection System Solutions

· 1.3 Details of the supplier of the safety data sheet
  · Manufacturer/Supplier:
    BIOTECON Diagnostics GmbH
    Hermannsweber 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.
  · Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void
  · Information concerning particular hazards for human 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.

· 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:
    CAS: 56-81-5  glycerol  50-100%
    EINECS: 200-289-5  substance with a Community workplace exposure limit

(Contd. on page 2)
**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 8 for information on personal protection equipment.

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

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• Information about protection against explosions and fires: No special measures required.

• 7.2 Conditions for safe storage, including any incompatibilities
  • 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.

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• 8.1 Control parameters
  • Components with limit values that require monitoring at the workplace:
    56-81-5 glycerol
    WEL (Great Britain) Long-term value: 10 mg/m³
    57-50-1 sucrose, pure
    WEL (Great Britain) Short-term value: 20 mg/m³
    Long-term value: 10 mg/m³
  • DNELs
    56-81-5 glycerol
    Oral DNEL (consumer, long-term, systemic) 229 mg/kg bw/day (human)
    Inhalative DNEL (consumer, short-term, local) 33 mg/m³ (human)
    DNEL (worker, long-term, local) 56 mg/m³ (human)
  • 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

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

- **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

- **Solvent content:**
  - **Organic solvents:** 0.0 %

9.2 Other information
No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
  - **Thermal decomposition / conditions to be avoided:**
    No decomposition if used according to specifications.
  - **10.3 Possibility of hazardous reactions**
    No dangerous reactions known
  - **10.4 Conditions to avoid**
    No further relevant information available.
  - **10.5 Incompatible materials:**
    No further relevant information available.
  - **10.6 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:**
    - **LD/LC50 values that are relevant for classification:**
      56-81-5 glycerol
      | Route   | LD50/LC50 |
      |---------|----------|
      | Oral    | 27200 mg/kg (rat) |
      | Dermal  | 56750 mg/kg (guinea pig) |
      | Inhalative | > 11 mg/l/1h (rat) |

  - **Primary irritant effect:**
    - **on the skin:** No irritant effect.
    - **on the eye:** No irritant effect.
    - **Sensitisation:** No sensitizing effect known.
SECTION 12: Ecological information

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

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

- 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
    - Class Void

- 14.4 Packing group
  - ADR, IMDG, IATA Void
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14.5 Environmental hazards:
- Marine pollutant: No

14.6 Special precautions for user
- Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
- Not applicable.

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

- UN "Model Regulation": -

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

- Substances of very high concern (SVHC) according to REACH, Article 57
  - None of the ingredients is contained.

- 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.

- 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.

- 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
  - 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