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

· Product identifier
  · Trade name: AdvanceBio Man5 / M5 N-Glycan Standard
  · Article number: GKM-002500

· Relevant identified uses of the substance or mixture and uses advised against
  · Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use

· Details of the supplier of the safety data sheet
  · Manufacturer/Supplier: Agilent Technologies Manufacturing GmbH & Co. KG
    Hewlett-Packard-Str. 8
    76337 Waldbronn
    Germany
  · Email: pdl-msds_author@agilent.com
  · Phone number: 0800 603 1000
  · Emergency telephone number: CHEMTREC®: +(44)-870-8200418

2 Hazards identification

· Classification of the substance or mixture
  · Classification according to Regulation (EC) No 1272/2008
    The substance is not classified, according to the CLP regulation.
  · Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
  · Information concerning particular hazards for human and environment: Not applicable.

· Label elements
  · Labelling according to EU guidelines:
    Observe the general safety regulations when handling chemicals.
    The substance is not subject to classification according to EU lists and other sources of literature known to us.

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

3 Composition/information on ingredients

· Chemical characterisation: Substances
  · CAS No. Description
    Glycans

4 First aid measures

· Description of first aid measures
  · General information: No special measures required.
  · After inhalation: Supply fresh air; consult doctor in case of complaints.
  · After skin contact: Generally the product does not irritate the skin.
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· After eye contact: Rinse opened eye for several minutes under running water.
· After swallowing: If symptoms persist consult doctor.
· Information for doctor:
· Most important symptoms and effects, both acute and delayed: No further relevant information available.
· Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Firefighting measures

· Extinguishing media
· Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
· Special hazards arising from the substance or mixture: No further relevant information available.
· Advice for firefighters
· Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures
  Wear protective gloves / eye protection / face protection.
· Environmental precautions: Do not allow to enter sewers/ surface or ground water.
· Methods and material for containment and cleaning up: Pick up mechanically.
· 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 disposal information.

7 Handling and storage

· Handling:
  · Precautions for safe handling: Wear protective gloves / eye protection / face protection.
  · Information about fire - and explosion protection: No special measures required.
· Conditions for safe storage, including any incompatibilities
· Storage:
  · Requirements to be met by storerooms and receptacles: No special requirements.
  · Information about storage in one common storage facility: Not required.
  · Further information about storage conditions: None.
· Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.
· Control parameters
· Ingredients with limit values that require monitoring at the workplace: Not required.
· Additional information: The lists valid during the making were used as basis.
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· Exposure controls
  · Personal protective equipment:
  · General protective and hygienic measures:
    The usual precautionary measures are to be adhered to when handling chemicals.
  · Respiratory protection: Not required.
  · Protection of hands:
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  · 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.
  · 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.
  · Eye protection: Wear eye protection / face protection.

9 Physical and chemical properties

· Information on basic physical and chemical properties
  · General Information
  · Appearance:
    Form: Powder
    Colour: Beige
  · Odour: Characteristic
  · Odour threshold: Not determined.
  · pH-value: Not applicable.

· Change in condition
  · Melting point/freezing point: Undetermined.
  · Initial boiling point and boiling range: Undetermined.
  · Flash point: Not applicable.
  · Flammability (solid, gas): Product is not flammable.
  · Decomposition temperature: Not determined.
  · Auto-ignition temperature: Not determined.
  · Explosive properties: Product does not present an explosion hazard.
  · Explosion limits:
    Lower: Not determined.
    Upper: Not determined.
  · Vapour pressure: Not applicable.

· Density:
  · Relative density: Not determined.
  · Vapour density: Not applicable.
  · Evaporation rate: Not applicable.

· Solubility in / Miscibility with water: Soluble.

· Partition coefficient: n-octanol/water: Not determined.
Trade name: AdvanceBio Man5 / M5 N-Glycan Standard

10 Stability and reactivity

- Viscosity:
  - Dynamic: Not applicable.
  - Kinematic: Not applicable.
- Solids content: 100.0 %
- Other information
  - No further relevant information available.

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity: Based on available data, the classification criteria are not met.
  - 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)
  - Germ cell mutagenicity: Based on available data, the classification criteria are not met.
  - Carcinogenicity: Based on available data, the classification criteria are not met.
  - Reproductive toxicity: Based on available data, the classification criteria are not met.
  - STOT-single exposure: Based on available data, the classification criteria are not met.
  - STOT-repeated exposure: Based on available data, the classification criteria are not met.
  - Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
  - Behaviour in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - 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 course or sewage system.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
### 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation**: Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Uncleaned packaging**
  - **Recommendation**: Disposal must be made according to official regulations.

- **Recommended cleansing agents**: Water, if necessary together with cleansing agents.

### 14 Transport information

- **UN-Number**
  - ADR, ADN, IMDG, IATA: not regulated

- **UN proper shipping name**
  - ADR, ADN, IMDG, IATA: not regulated

- **Transport hazard class(es)**
  - ADR, ADN, IMDG, IATA: not regulated

- **Packing group**
  - ADR, IMDG, IATA: not regulated

- **Environmental hazards**: Not applicable.

- **Special precautions for user**: Not applicable.

- **Transport in bulk according to Annex II of Marpol and the IBC Code**: Not applicable.

- **UN “Model Regulation”**: not regulated

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I Substance is not listed.

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

### 16 Other information

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