

MATERIAL SAFETY DATA SHEET

alpha-AMYLASE liquicolor

| 1. Information of the Substance / Preparation and of the Company | | |
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| 1.1 | Product | alpha-AMYLASE liquicolor |
| | REF | 12018, 12028, 12218 This applies also for respective Cat.Nos. for bulk, neutral and OEM products. |
| 1.2 | Company | HUMAN Gesellschaft für Biochemica und Diagnostica mbH, Max-Planck-Ring 21, 65205 Wiesbaden, Germany ☎: +49 (0) 6122 99 88 0; Fax: +49 (0) 6122 99 88 100 eMail: human@human.de |
| 1.3 | Emergency contact: | ☎: +49 (0) 6122 99 88 0; Fax: +49 (0) 6122 99 88 100 eMail: human@human.de |

| 2. Composition / Information on Ingredients | | | | | |
|---|---------------------|------------|--------------------------------|------------------------------------|---------------|
| 2.1 Contents: | | | | | |
| REF | | RGT | Reagent | Quantity | Formula |
| 12218 | Complete M-Test kit | RGT | Enzyme reagent | 16 x 5 ml | Formula |
| 12018 | Complete kit | RGT | Enzyme reagent | 12 x 10 ml | Formula |
| 12028 | Complete kit | RGT | Enzyme reagent | 5 x 50 ml | 100 mg/dl |
| 2.2 Dangerous ingredients: | | | | | |
| Component | Substance | CAS | R-Phrases | Symbol acc. relative concentration | Concentration |
| RGT | Sodium azide | 26628-22-8 | R 28-32-50/53 S 28-45-60-61 | | |

| 3. Hazards Identification |
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| No dangerous substances in reportable quantities. |

| 4. First-aid Measures | |
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| Eye contact | Wash with copious amounts of water for several minutes. Assure adequate flushing of eyes by separating the eyelids. Seek medical advice. |
| Skin contact | Instantly rinse with plenty of water and apply disinfectant. Seek medical advice. |
| Ingestion | Rinse out mouth, and seek medical advice. |
| Inhalation | Fresh air. Seek medical advice. |
| Direction for physician | Symptomatic treatment, possibility of infection and allergenic reactions. |

| 5. Fire-fighting Measures | |
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| Extinguishing media | Water, foam, depending on environment. |
| Thermal decomposition | Dangerous decomposition products and gases which are damaging to health in large quantities are not anticipated. |
| Further data | Not yet available |

| 6. Accidental Release Measures | |
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| After spillage | Wear protective clothing, soak up with absorbent material (i.e. vermiculite, cotton fleece), dispose material as biochemical waste in accordance with regulations; rinse well with disinfectant, followed by water. |
| Absorbent material | No restrictions |

| 7. Handling and Storage | |
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| Handling | Substance itself does not burn. Handle with care. |
| Storage | Store at 2..8°C |

| 8. Exposure Controls / Personal Protection | |
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| Respiratory protection: | If gas or dust formation occurs. |
| Eye protection: | Yes |
| Hand protection: | Yes |

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| | Wear gloves, goggles and protective clothing. Wash and disinfect hands after work and before breaks. Change contaminated clothing immediately. |
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9. Physical and Chemical Properties

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| | RGT | | | |
| Appearance | Liquid | | | |
| Colour | Colourless | | | |
| Odour | None | | | |
| pH (@20°C) | 6.0 | | | |
| Melting point | Similar to H ₂ O | | | |
| Boiling point | Similar to H ₂ O | | | |
| Flash point | | | | |
| Ignition temp. | | | | |
| Explosion limits, Lower Upper | | | | |
| Vapour pressure | | | | |
| Density | | | | |
| Solubility in water | Soluble | | | |
| Further data | Dilute aqueous solution | | | |

10. Stability and Reactivity

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| Hazardous reactions | None known when used appropriately |
| Conditions to avoid | High temperature, freezing |
| Hazardous decomposition products | Not known |

11. Toxicological Information

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| Toxicological data for this product is not available |
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12. Ecological Information

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| Ecological data for this product is not available. No ecological problems are expected when the product is handled and used with due care and attention. Generally not hazardous for water. |
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13. Disposal Considerations

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| Chemicals and biochemical residues and remains should be routinely handled as special waste. These must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information. European waste catalogue: 180103 wastes whose collection and disposal is subject to special requirements in order to prevent infection. |
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14. Transport Information

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| UN | GGVE | RID/ADR | ICAO/IATA | IMDG/EMS | MFAG |
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15. Regulatory Information

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|--------|---------|-----------|----------|
| Symbol | Warning | R-Phrases | Contents |
| | - | - | - |

16. Other Information

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| The information herein is based on the current extent of our knowledge and is believed to be correct, but is provided without warranty of any kind. The recipient of our product is responsible for observing all applicable laws and regulations. |
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