SAFETY MATERIAL DATA SHEET

eTaq flex kit

SYL1003

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Sylphium
molecular ecology

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eTaq qPCR mix

Identification of the product and of the company

Product name: eTaq qPCR mix

Product number: SYL1003-1

Supplier: Sylphium Molecular Ecology
Diamantlaan 6b
9743 BG Groningen
+31 6824 26444
info@sylphium.com

Composition and information on ingredients

- Tris-HCl
- $(NH_4)_2SO_4$
- Tween 20
- $MgCl_2$
- BSA
- dNTPs

Hazards identification

No hazards known.

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First aid measures

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician.
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion	If swallowed, do not induce vomiting. Call a physician immediately.

Fire-fighting measures

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	May produce hazardous fumes under fire conditions.

Accidental safety measures

Personal precautions	Wear appropriate protective equipment.
Environmental precautions	Prevent from entering into soil, ditches, sewers, waterways, or groundwater.
Cleanup procedures	Absorb with an inert material and dispose of in accordance with local, state, and federal regulations.

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Handling and storage

Handling	Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
Storage	Store in a cool, dry, well-ventilated area away from incompatible materials.

Exposure controls and personal protection

Exposure guidelines	Not available.
Engineering controls	Use local exhaust ventilation if general ventilation is not adequate to control airborne contamination.
Personal protective Equipment	• Eye/Face Protection: Wear chemical safety goggles and/or a full face shield where splashing is possible. • Skin Protection: Wear protective gloves and protective clothing to prevent skin contact. • Respiratory Protection: Use an appropriate NIOSH-approved respiratory protection if airborne exposure limits are exceeded or if respiratory irritation or distress is experienced.

Physical and chemical properties

Physical State	Liquid
Color	Colorless to yellow
Odor	Odorless
pH	8.8
Boiling point	Not applicable
Melting point	Not applicable
Flash point	Not applicable
Auto-ignition	Not applicable
Solubility	Soluble in water

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Stability and reactivity

Stability	Stable under normal conditions of use and storage.
Incompatible materials	Strong oxidizing agents.
Hazardous or decomposition products	May produce toxic fumes under fire conditions.

Toxicological information

Acute toxicity	LD50/LC50: not available.
Skin corrosion or irritation	May cause skin irritation or dermatitis upon prolonged contact.
Serious eye damage or irritation	May cause serious eye irritation or damage upon prolonged contact.
Respiratory or skin sensitization	Not expected to be a respiratory or skin sensitizer.
Carcinogenicity	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.
Reproductive toxicity	No known effects.
Teratogenicity	No known effects.
Mutagenicity	No known effects.

Ecological information

No data available.

Disposal considerations

Dispose of waste in accordance with local, state, and federal regulations.

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Transport information

DOT (US): not regulated.

Regulatory information

TSCA 8(b) inventory: all components are listed.

Other information

- NFPA health rating: 1
- NFPA flammability rating: 0
- NFPA reactivity rating: 0

The information provided in this Material Safety Data Sheet is accurate to the best of our knowledge. However, no warranty, express or implied, is made with regard to this information. It is the user's responsibility to ensure the safe handling, storage, and disposal of the product, as well as to take all necessary precautionary measures to protect human health and the environment.

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eTaq DNA polymerase

Identification of the product and of the company

Product name: eTaq DNA polymerase

Product number: SYL1003-2

Supplier: Sylphium Molecular Ecology
Diamantlaan 6b
9743 BG Groningen
+31 6824 26444
info@sylphium.com

Composition and information on ingredients

Product: Tris-KCl-EDTA (TKE) buffer with Nonidet P40 and Tween 20

Chemical composition:

- Tris-HCl
- Potassium chloride (KCl)
- Tween 20
- Ethylenediaminetetraacetic acid (EDTA)
- Nonidet P40
- eTaq DNA polymerase

Hazards identification

No hazards known.

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First aid measures

Inhalation	Move the victim to fresh air and allow them to rest in a comfortable position.
Skin contact	Rinse eyes with water for at least 15 minutes and seek medical attention if irritation persists
Eye contact	Remove contaminated clothing and wash skin with water and soap.
Ingestion	Rinse mouth with water and drink plenty of water. Seek immediate medical attention.

Fire-fighting measures

This mixture is not flammable.

Accidental safety measures

Spills	Limit the spread of the mixture with absorbent material.
Inhalations	Move the victim to a well-ventilated area.
Eye or skin contact	Use protective clothing and gloves when handling the mixture. Avoid contact with skin, eyes, and respiratory tract.

Handling and storage

Handling	Use protective clothing and gloves when handling the mixture. Avoid contact with skin, eyes, and respiratory tract.
Storage	Store the mixture in a tightly closed container at room temperature.

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Exposure controls and personal protection

Personal protective Equipment	• Eye protection: wear protective goggles or face shield in case of eye contact. • Hands: wear protective gloves when handling the mixture. • Skin protection: wear protective clothing to avoid contact with the skin. • Respiratory Protection: Wear suitable respiratory protection in case of inhalation.

Physical and chemical properties

Physical State	Liquid
Color	Clear
Odor	Odorless
pH	7.4 ± 0.2
Boiling point	Not applicable
Melting point	Not applicable
Flammability	Not flammable
Flash point	Not applicable
Explosive properties	Not explosive
Vapor pressure	Not applicable
Density	1.03 g/cm^3 at 20°C

Stability and reactivity

Stability	Stable under normal conditions of use and storage.
Incompatible materials	None known.
Hazardous or decomposition products	No dangerous reactions known under normal conditions of use.

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Toxicological information

Acute toxicity	Not expected to be harmful by inhalation, ingestion, or skin contact.
Skin corrosion or irritation	May cause skin irritation.
Serious eye damage or irritation	May cause eye irritation.

Ecological information

No data available.

Disposal considerations

Dispose of waste in accordance with local, state, and federal regulations.

Transport information

This mixture is not regulated for transportation.

Regulatory information

- EC number: not applicable
- REACH registration number: not applicable
- CAS number: not applicable
- Classification and labeling: not classified as hazardous according to Regulation (EC) No. 1272/2008.

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Other information

This Safety Data Sheet is based on the current state of knowledge and applies to the mixture as formulated. It should not be construed as guaranteeing specific properties of the product.

The information provided in this Safety Data Sheet is accurate to the best of our knowledge, information, and belief at the date of its publication. However, we make no representations or warranties, either express or implied, as to the completeness or accuracy of the information contained herein. It is the user's responsibility to ensure that this Safety Data Sheet is suitable and sufficient for their purposes and to comply with all applicable legal requirements and regulations.

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The eDNA company

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