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

1.1 Product details
- Product name: SmartPure Gel Kit
- Catalog number: SK-GEPU-100
- Component name: SmartPure Wash buffer, SmartPure Elution buffer, SmartPure Extraction buffer

1.2 Relevant identified uses of the substance/preparation and uses advised against
For laboratory use only.

1.3 Manufacturer/Supplier:
Kaneka Eurogentec s.a.
Parc Scientifique du Sart Tilman 4102
Seraing Belgium
Tel +32-4-3727400
Fax +32-4-2640788
E-mail scientific.support@eurogentec.com
Kaneka Eurogentec Helpdesk
Tel. +32-4-3727665

1.4 Emergency information
Please contact the regional Kaneka Eurogentec representation in your country or Kaneka Eurogentec S.A. directly (from 8 am to 6 pm).

MSDS-Nr.: MSDS-Smart-Pure-Gel-Kit-V2

2. Hazards identification

2.1 Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Acute toxicity, Dermal (Category 4), H312
Skin corrosion (Category 1B), H314
Chronic aquatic toxicity (Category 3), H412
For the full text of the H-statements mentioned in this Section, see Section 16

2.2 Label elements: Labelling according Regulation (EC) No 1272/2008
Pictogram

Signal word : Danger
Hazard statement(s)
H302 + H312 + H332 : Harmful if swallowed, in contact with skin or if inhaled.
H314 : Causes severe skin burns and eye damage.
H412 : Harmful to aquatic life with long lasting effects.

Precautionary statement(s)
P260 : Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280 : Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330 : IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P303 + P361 + P353 : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
EUH032: Contact with acids liberates very toxic gas.

2.3 Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients

3.1 Substance: Not applicable
3.2 Mixture:

- **Extraction buffer**

<table>
<thead>
<tr>
<th>Name</th>
<th>CE-No.</th>
<th>CAS-No.</th>
<th>Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guanidine thiocyanate</td>
<td>209-812-1</td>
<td>593-84-0</td>
<td>5 - 15 %</td>
</tr>
</tbody>
</table>

- **Wash buffer**: All ingredients in this product are not dangerous and not classified by GHS standard.

- **Elution buffer**: All ingredients in this product are not dangerous and not classified by GHS standard.

4. First-aid measures

4.1 Description of first aid measures:
After inhalation: Fresh air. Consult a doctor in case of complaints.
After skin contact: Wash off with soap and plenty of water.
After eye contact: Rinse out with plenty of water.
After swallowing: Wash out mouth with water. Never give anything by mouth to an unconscious person. Consult a doctor if feeling unwell.

4.2 Most important symptoms and effects: See section 11

4.3 Immediate medical attention and special treatment needed: No data available

5. Fire-fighting measures

5.1 Suitable extinguishing agents: Water, CO2, powder.
5.2 Special hazards: No data available.
5.3 Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Avoid contact with skin, avoid breathing vapors or mist.
6.2 Environmental precautions: Prevent further leakage or spillage if safe to do so.
Do not let enter drains.
6.3 Measures and materials for containment and cleaning up: Absorb with liquid-binding material.
6.4 Reference to other sections: For disposal see section 13.
7. Handling and storage

7.1 Precautions for safe handling: Wear laboratory gloves, avoid inhalation of vapour or mist

7.2 Conditions for safe storage, incl. any incompatibilities:
- The Kit is stable for 18 months if stored in a dry environment at room temperature (15°C-25°C).
- The RNase solution must be stored at 2-8°C.
- After addition of the RNase solution, the SmartPure Resuspension buffer must be stored at 2-8°C.

7.3 Specific end use(s):
- see section 1.2, no other use stipulated

8. Exposure controls/personal protection

8.1 Control parameters:

8.2 Exposure controls:
- General laboratory hygiene practice

Personal protective equipment:
- Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- General laboratory hygiene practice
- Laboratory coat.
- Not required under normal use.
- Do not let product enter drains.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

- Appearance: Fluid
- Color: Colorless
- Odor: Odorless
- Odor threshold: No data available
- pH: 5.0 – 9.0

9.2 Other safety information:
- No data available

10. Stability and reactivity

10.1 Reactivity:
- No data available

10.2 Chemical stability:
- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions:
- No data available

10.4 Conditions to avoid:
- Excess heat, incompatible materials, water/moisture

10.5 Incompatible materials:
- No data available.

10.6 Hazardous decomposition products:
- No dangerous decomposition products in hazardous amounts.
11.1 Information on toxicological effects:

- **Acute toxicity:** Guanidine thiocyanate: 593 mg/kg Oral LD50 rat
- **Skin corrosion/irritation:** Irritant to skin and mucous membranes
- **Serious eye damage/irritation:** Irritating effect
- **Respiratory or skin sensitization:** Possible
- **Germ cell mutagenicity:** No data available
- **Carcinogenicity:** No data available
- **Reproductive toxicity:** No data available
- **Specific target organ toxicity-single exposure:** No data available
- **Specific target organ toxicity-repeated exposure:** No data available
- **Aspiration hazard:** No data available

Additional toxicological information: The product should be handled with the usual care when dealing with chemicals.

12. Ecological information

- **Toxicity:** Slightly hazardous for water.
- **Persistence and degradability:** No data available.
- **Bioaccumulative potential:** No data available.
- **Mobility in soil:** No data available.
- **Results of PBT and vPvB assessment:** No data available.
- **Other adverse effects:** No data available.

13. Disposal considerations

- **Waste treatment methods:**
  - **Product:** Dispose as special waste in compliance with official regulations. Do not allow product to reach sewage system.
  - **Uncleaned packaging:** Dispose as special waste in compliance with official regulations.

14. Transport information

- **UN number:**
  - ADR/RID: -
  - IMDG: -
  - IATA: -
- **UN proper shipping name:** Not dangerous goods.
- **Transport hazard class(es):**
  - ADR/RID: -
  - IMDG: -
  - IATA: -
- **Packaging group:**
  - ADR/RID: -
  - IMDG: -
  - IATA: -
- **Environmental hazards:**
  - ADR/RID: no
  - IMDG: no
  - IATA: no.
- **Special precautions for user:** None

15. Regulation information

- **Safety, health and environmental regulations/legislation specific for the substance/mixture:** none
- **Chemical safety assessment:** For this substance/mixture a chemical safety assessment was not done
16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The information in this document is intended only as a guide to the appropriate precautionary handling of this material by a person trained in, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and danger of this chemical material in his application. This material may react with other substances and since potential users are so varied, Kaneka Eurogentec S.A., cannot warn of all potential dangers. Therefore, Kaneka Eurogentec S.A., will not assume responsibility and expressly disclaims liability for loss, damage, or expense arising from the use, handling, storage, or disposal of this product. Kaneka Eurogentec S.A. urges each user to carefully read the MSDS prior to using the product and become aware to the adverse health effects associated with this product. While the information provided in the MSDS is believed to be correct, the information is provided without any warranty expressed or implied, regarding its corrective uses.

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