

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

1.1 Product details

- Product name
- Catalog number
- Component name

SensoLyte®Green Elastase Assay Kit *Fluorimetric* AS-72178

- **Component A:** 5-FAM/QXL520 labeled elastin
- **Component B:** Elastase, porcine pancreas
- **Component C:** Elastase, porcine pancreas
- **Component D:** Elastase inhibitor

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.

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 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-AS-72178-V1

2. Hazards identification

2.1 Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008

H227: Combustible liquid (Component D)

H302: Acute toxicity, Oral (Components B + C)

H316 : Causes mild skin irritation (Components A + B)

H320: Causes mild eye irritation (Components A + B)

H314: Causes severe skin burns and eye damage (Component C)

H410: Very toxic to aquatic life with long lasting effect (Component C)

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

Pictogram



Precautionary statement(s)

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Supplemental Hazard information (EU)

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

Chemical Name:	Description	CAS Number:
Component A	Contains PBS	N/A
Component B	Elastase, porcine pancreas	N/A
Component C	Proprietary	N/A
Component D	Contains DMSO	67-68-5

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 Extinguishing media:	Component A: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Component B: None Component C: Not applicable Component D: For small fires, use alcohol resistant foam, dry chemical, or carbon dioxide. For large fires, use water spray from a safe distance.
5.2 Unusual fire and explosions hazards:	Component A: None Component B: None Component C: Not applicable Component D: Combustible liquid and vapor. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. Hazardous carbon oxides and sulphur oxides formed under fire conditions.
5.3 Special firefighting procedures:	Component A: None Component B: None Component C: Not applicable Component D: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Component D : Avoid contact with skin, avoid breathing vapors or mist.

6.2 Environmental precautions:

Component D: 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:

Component A: Absorb with liquid-binding material.

Component D: Collect with an electrically protected vacuum cleaner, by wet-brushing, or by absorbing with vermiculite, sand or earth, and place in appropriate container for disposal.

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:

- Component A: Store at -20 °C
- Component B: Store at -80 °C
- Component C: Store at 4 °C
- Component D:

Handling: Wash thoroughly after handling. Remove and wash any contaminated clothing. Keep container tightly closed and avoid contact with eyes, skin, and clothing. Use with adequate ventilation and avoid ingestion and inhalation. Keep away from heat and flame.

Storage: Store in a tightly closed container away from moisture, heat, and flame. Store away from incompatible substances. Storage under a nitrogen blanket has been recommended.

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: -

Appropriate engineering controls:

General laboratory hygiene practice

Component D: Facilities storing and using this material should be equipped with a safety shower and eyewash station. Adequate ventilation should also be present.

Personal protective equipment:

General laboratory hygiene practice

Component A,B and C: Wear goggles, gloves and lab coat when handling this product

Component D:

Respiratory System: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Skin and Body: Wear appropriate work uniform or laboratory coat to prevent skin exposure. Hands: Use chemical resistant, impervious gloves. Appropriate techniques should be used to remove potentially contaminated gloves.

Eyes: Wear chemical splash goggles.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

- | | |
|----------------------------|-------------------|
| a. Appearance: | Liquid |
| b. Color: | No data available |
| c. Odor: | No data available |
| d. Odor threshold: | No data available |
| e. pH: | Component C: 7.5 |
| Change in condition | |
| f. Melting point/range: | No data available |
| g. Boiling point/range: | No data available |
| h. Flash point: | Not applicable |
| i. Self-igniting: | No data available |
| j. Danger of explosion: | No data available |
| k. Density: | No data available |
| l. Solubility in water: | Fully soluble |
| m. Miscibility with water: | Fully miscible |

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:	Not Applicable

11. Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:	Component D contains DMSO: LD50 Oral - rat - 14,500 mg/kg Inhalation LC50 Inhalation - rat - 4 h - 40250 ppm LD50 Dermal - rabbit - > 5,000 mg/kg
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

Component A and B: Do not allow product to reach ground water, watercourse, or sewage system.

Component D contains DMSO: CAS-No. 67-68-5

12.1 Toxicity:	<u>Toxicity to fish</u> LC50 - Pimephales promelas (fathead minnow) - 34,000 mg/l - 96 h; LC50 - Oncorhynchus mykiss (rainbow trout) - 35,000 mg/l - 96 h; <u>Toxicity to daphnia</u> and other aquatic invertebrates. EC50 - Daphnia pulex (Water flea) - 27,500 mg/l <u>Toxicity to algae</u> EC50 - Lepomis macrochirus (Bluegill) - > 400,000 mg/l - 96 h
12.2 Persistence and degradability:	No data available.
12.3 Bioaccumulative potential:	No data available.
12.4 Mobility in soil:	No data available.
12.5 Results of PBT and vPvB assessment:	No data available.
12.6 Other adverse effects:	No data available.

13. Disposal considerations

13.1 Waste treatment methods:

Contaminated packaging

Dispose of as unused product.

Component A ,B and C: Consult local, state, or national regulations for proper disposal.

Component D :

For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

14. Transport information

14.1 UN number:

ADR/RID: -

IMDG: -

IATA: -.

14.2 UN proper shipping name:

Not dangerous goods.

14.3 Transport hazard class(es):

ADR/RID: -

IMDG: -

IATA: -.

14.4 Packaging group:

ADR/RID: -

IMDG: -

IATA: -.

14.5 Environmental hazards:

ADR/RID: no

IMDG: no

IATA: no.

14.6 Special precautions for user:

None

15. Regulation information

European/International Regulations:

	Component A	Component B	Component C	Component D
EC EINICS	N/A	N/A	N/A	200-664-3
EC Risk statements	N/A	N/A	N/A	36/37/38

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.