

SAFETY DATA SHEET

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

1.1. Product identifier

Product name: KANEKA Endonuclease

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: DNA removal

1.3. Details of the supplier of the safety data sheet

Name of manufacturer: KANEKA CORPORATION
Department in Charge Pharma & Supplemental Nutrition Solutions Vehicle
Address 2-3-18, Nakanoshima, Kita-ku, Osaka 530-8288, Japan
Telephone number +81-6-6226-5050
Fax number +81-6-6226-5037
e-mail address knkmicpro@kaneka.co.jp

1.4. Emergency telephone number

+81-6-6226-5050

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification in accordance with EC No 1272/2008:

Not classified

2.2. Label elements

Pictogram Not applicable
Signal word Not applicable
Hazard Statements Not applicable
Precautionary Statements Not applicable

2.3. Other hazards

The product does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances Not applicable

3.2. Mixtures

Product Name: KANEKA Endonuclease

Remarks: No disclosure requirement according to Regulation (EC) No. 1907/2006.

SECTION 4: First aid measures

4.1. Description of first aid measures

IF INHALED	Remove exposed individual to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
IF ON SKIN	Wash exposed skin with soap and water while removing contaminated clothing or shoes. Get medical attention if irritation develops.
IF IN EYES	Flush eyes immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.
IF SWALLOWED	Spit out the remaining in the mouth, rinse the mouth with water, gargle with water, and submit to medical treatment

4.2. Most important symptoms and effects, both acute and delayed

No known significant effects.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use any suitable media.

5.2. Special hazards arising from the substance or mixture

Not known hazards.

5.3. Advice for firefighters

Sufficient safety policy must be considered to prevent fire and explosion.

Keep personnel removed from and upwind of fire. Wear full fire-fighting turn-out gear (full bunker gear) and respiratory protection (self-contained breathing apparatus).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training.

Wear suitable protective equipment described in "Section 8: Exposure controls/ personal protection"

For emergency responders:

Keep out except responsible personnel.

Wear suitable protective equipment described in "Section 8: Exposure controls/ personal

protection”

6.2. Environmental precautions

Avoid release into the environment

6.3. Methods and material for containment and cleaning up

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk.

Wear gloves, goggles and other protective clothing, and wipe contaminated surface with clean cloth or paper. Dispose of in a manner consistent with federal, state, and local regulations.

6.4. Reference to other sections

Refer to “SECTION 8: Exposure controls/personal protection” and “SECTION 13: Disposal considerations” as appropriate.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures:

Avoid contact with skin, eyes, or clothing. Keep away from sources of heat, open flames and other sources of ignition. Use spark-proof tools and explosion-proof equipment.

Emergency showers and eye-wash fountains should be provided in the immediate work place.

Advice on general occupational hygiene:

Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage condition:

Tightly closed.

Recommended storage temperature is below -20°C

7.3. Specific end use(s)

Biochemical research/analysis

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No information available.

8.2. Exposure controls

Appropriate engineering controls:

Special controls should not be required.

Personal protective equipment:

Respiratory protection	Respiratory protection should not be required under normal conditions of use.
Hand protection	Wear appropriate protective gloves to prevent skin contact under conditions of use.
Eye protection	Face protection: Wear safety glasses or goggles.
Skin and body protection	Wear appropriate protective clothing to prevent skin contact under conditions of use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance (physical state, form and colour)	Liquid (at -20°C), Colorless
Odour	Odourless
Odour threshold	No information
pH	8.0 at 25°C
Melting point/freezing point	No information
Initial boiling point and boiling range	No information
Flash point	No information
Evaporation rate	No information
Flammability (solid, gas)	No information
Upper/lower flammability or explosive limits	No information
Vapour pressure	No information
Vapour density	No information
Relative density	No information
Solubility (ies)	at 25°C soluble in water
Partition coefficient: <i>n</i> -octanol/water	No information
Auto-ignition temperature	No information
Decomposition temperature	> 50 °C
Viscosity	No information
Explosive properties	No information
Oxidizing properties	No information

9.2. Other information

No information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal handling condition.

10.2. Chemical stability

Stable under standard ambient conditions

10.3. Possibility of hazardous reactions

No hazardous reaction expected under normal handling.

10.4. Conditions to avoid

No information

10.5. Incompatible materials

No information

10.6. Hazardous decomposition products

No information

SECTION 11: Toxicological information

11.1. Information on toxicological effects

(a) acute toxicity:	No information
(b) irritation:	No information
(c) corrosivity:	No information
(d) sensitisation:	No information
(e) repeated dose toxicity:	No information
(f) carcinogenicity:	No information
(g) mutagenicity:	Results of Ames test using bacteria is negative
(h) toxicity for reproduction:	No information

SECTION 12: Ecological information

12.1. Toxicity:

Information on product:	No information
Information on ingredients:	No information

12.2. Persistence and degradability:

Information on product:	No information
Information on ingredients:	No information

12.3. Bioaccumulative potential:

Information on product:	No information
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Information on ingredients: No information

12.4. Mobility in soil:

Information on product: No information

Information on ingredients: No information

12.5. Results of PBT and vPvB assessment:

The product does not meet the PBT and vPvB criteria.

12.6. Other adverse effects:

No information

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Comply with all federal, state and local regulations. Treat properly as a chemical dump.

When disposing used containers, remove the remaining contents completely and dispose them in compliance with all federal, state and local regulations.

SECTION 14: Transport information

14.1. UN number Not applicable

14.2. UN proper shipping name Not applicable

14.3. Transport hazard class(es) Not applicable

14.4. Packing group Not applicable

14.5. Environmental hazards Not applicable

14.6. Special precautions for user

Deliver under cool or frozen conditions. Do not turn over. Fragile. Handle with care. In case of normal storage, see to "SECTION 7: Handling and storage".

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and IBC code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/ legislation specific for the substance or mixture

The product and its ingredients are not regulated by specific provisions related to protection of human health or the environment at EU level, e.g. not considered as SVHCs or POPs.

15.2. Chemical safety assessment

Not conducted

SECTION 16: Other information

Update history:

First issue: 01 December, 2017

References:

Not available.

Relevant risk phrases of which do not appear elsewhere in this SDS

No relevant risk phrases.

Abbreviations

PBT: Persistent, Bioaccumulative and Toxic substance

POPs: Persistent Organic Pollutants

STOT: Specific Target Organ Toxicity

SVHC: Substances of Very High Concern

vPvB: Very Persistent and Very Bioaccumulative

[Disclaimer]

This SDS has been prepared based on the best available information however, it may not be sufficient in some cases. It is user's responsibility to modify or update any contents in this SDS regarding information on hazardous properties and/or instruction for safe handling of the product when they become available.

Precautionary measures in this SDS are only applicable for normal handling conditions and it is necessary to take appropriate additional measures to ensure safe handling which depend on your specific use conditions or situations.