



SAFETY DATA SHEET

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

Identification of the substance/preparation

Product code 100005433
Product name S. cerevisiae killer protein sequence DNA duplex

Company/Undertaking Identification

Life Technologies
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24 hour Emergency Response:

866-536-0631
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Outside of the U.S. ++1-301-431-8585

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

2. Hazards identification

GHS - Classification

Signal word
not hazardous

Health hazard
not hazardous

Physical hazards
not hazardous

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**Principle Routes of Exposure/
Potential Health effects**

| | |
|-------------------|--|
| Eyes | May cause eye irritation with susceptible persons. |
| Skin | May cause skin irritation in susceptible persons. |
| Inhalation | May be harmful by inhalation |
| Ingestion | May be harmful if swallowed. |

Specific effects

| | |
|------------------------------|------|
| Carcinogenic effects | none |
| Mutagenic effects | none |
| Reproductive toxicity | none |
| Sensitisation | none |

Target Organ Effects No known effects under normal use conditions

3. Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

4. FIRST AID MEASURES

| | |
|---------------------------|--|
| Skin contact | Rinse with plenty of water. If symptoms arise, call a physician. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. |
| Ingestion | Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice. |
| Inhalation | Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration. |
| Notes to physician | Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

| | |
|--|--|
| Suitable extinguishing media | Water spray. Carbon dioxide (CO2). Foam. Dry chemical. |
| Special protective equipment for firefighters | Wear self-contained breathing apparatus and protective suit. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|--------------------------------|--|
| Personal precautions | Use personal protective equipment. |
| Methods for cleaning up | Take up mechanically and collect in suitable container for disposal. |

Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for additional information.

7. HANDLING AND STORAGE

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Handling Avoid contact with skin, eyes and clothing. Wear personal protective equipment.
Storage Keep in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Exposure limits

The product does not contain any hazardous materials with occupational exposure limits established.

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

| | |
|---------------------------------|--|
| Respiratory protection | In case of insufficient ventilation wear suitable respiratory equipment. |
| Hand protection | Impervious gloves. |
| Eye protection | Safety glasses with side-shields |
| Skin and body protection | Lightweight protective clothing. |
| Hygiene measures | Handle in accordance with good industrial hygiene and safety practice. |

Environmental exposure controls Prevent product from entering drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

| | | |
|---------------------------------|--------------------------|----------------------|
| Form | Lyophilized powder | |
| Appearance | No information available | |
| Odour | No information available | |
| Boiling Point/Range | °C No data available | °F No data available |
| Melting point/range | °C No data available | °F No data available |
| Flash point | °C No data available | °F No data available |
| Autoignition temperature | °C No data available | °F No data available |
| oxidising properties | No information available | |
| Water solubility | No data available | |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Stability | Stable under normal conditions. |
| Materials to avoid | No dangerous reaction known under conditions of normal use. |
| Hazardous decomposition products | None under normal use. |
| polymerisation | Hazardous polymerisation does not occur. |

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not hazardous

**Principle Routes of Exposure/
Potential Health effects**

| | |
|------------------------------|--|
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| Inhalation | May be harmful by inhalation |
| Ingestion | May be harmful if swallowed. |
| Carcinogenic effects | none |
| Mutagenic effects | none |
| Reproductive toxicity | none |
| Sensitisation | none |
| Target Organ Effects | No known effects under normal use conditions |

12. ECOLOGICAL INFORMATION

| | |
|----------------------------|---------------------------|
| Ecotoxicity effects | No information available. |
| Mobility | No information available. |
| Biodegradation | Inherently biodegradable. |
| Bioaccumulation | Does not bioaccumulate. |

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

IATA

| | |
|-----------------------------|--|
| Proper shipping name | Not classified as dangerous in the meaning of transport regulations. |
| Hazard class | None |
| Subsidiary Class | None |
| Packing group | None |
| UN-No | None |

15. Regulatory information

Japan Inventories

Complies

16. OTHER INFORMATION

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This product formulation has been reviewed against the following Japan regulations: Fire Service Law, Poisonous and Deleterious Substance Control Law, Pollutant Release and Transfer Register, Industrial Safety and Health Law, Chemical Substance Control Law, Prohibition of Chemical Weapons and Regulation Specific Chemicals, Water Pollution Control Law, Air Pollution Control Law, Narcotics and Psychotropic Control Act, Stimulants Control Act, and Cannabis Control Act

Reason for Revision (M)SDS sections updated

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End of Safety Data Sheet