



SAFETY DATA SHEET

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

Identification of the substance/preparation

Product code 100004934
Product name PichiaPink™ Strain 1

Company/Undertaking Identification

Life Technologies
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24 hour Emergency Response:

866-536-0631
301-431-8585
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

| Chemical Name | CAS-No. | Weight percent |
|---------------|---------|----------------|
| Glycerin | 56-81-5 | 10-30 |

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 Soak up with inert absorbent material.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for additional information.

7. HANDLING AND STORAGE

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

| Chemical Name | Japan REL - Ceiling Limits | Japan OEL (TWA) |
|---------------------|----------------------------|-----------------|
| Glycerin 56-81-5 | None | None |

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 suspension
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 soluble

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

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| Chemical Name | LD50 (oral, rat/mouse) | LD50 (dermal, rat/rabbit) | LC50 (inhalation, rat/mouse) |
|---------------|------------------------|---------------------------|------------------------------|
| Glycerin | = 12600 mg/kg Oral | No data available | No data available |

**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. |
| 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 | Daphnia magna (Water flea) |
| Mobility | see log Pow |
| Biodegradation | Inherently biodegradable. |
| Bioaccumulation | Does not bioaccumulate. |

| Chemical Name | Freshwater Algae Data | Water Flea Data | Freshwater Fish Species Data | Microtox Data | log Pow |
|---------------------|-----------------------|---------------------------------------|------------------------------|---------------|-------------|
| Glycerin 56-81-5 | | Daphnia magna EC50>500 mg/L (24 h) | | | logPow-1.76 |

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

| Chemical Name | Japan ISHL | Japan PRTR | Japan PDSCl | Japan Fire Service Law |
|---------------|------------|------------|-------------|--|
| Glycerin | Not Listed | Not Listed | Not listed | Group 4 - Flammable liquids III (listed under 3rd Class petroleum - soluble) |

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| Chemical Name | Weight percent | Japan - Air Pollution Control Law |
|---------------|----------------|-----------------------------------|
| Glycerin | 10-30 | 400 - 60000 |

16. OTHER INFORMATION

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