

Revision Date: 16.11.2007

Former date: 11.8.2003

1. Identification of the Chemical and of the Manufacturer, Importer or Other Undertaking

Identification of the substance or preparation

Trade name: **Entranceposons****Plasmid Entranceposons**Code of the preparation: **F-751, F-759, F-764, F-778, F-779, F-784
F-765, F-766, F-767, F-773**

Use of the substance or preparation

***In vitro* transposition reactions**

Identification of the manufacturer, importer or other undertaking

Manufacturer, importer, other undertaking: **Finnzymes Oy**

Street address: Keilaranta 16 A

Postcode and post office: 02150 Espoo

Telephone number: +358-9-584121

Telefax: +358-9-58412200

E-mail: fz@finnzymes.fi

Emergency telephone number

HUS 09-471977 HUS Poison Information Centre, or +358-9-4711 (operator), Helsinki, Finland, or your local centre for detoxification.

2. Hazards Identification

Health hazard of the chemical mixture as a whole: No information available. However it is recommended to prevent ingestion and skin contact.

3. Composition and Information on Ingredients

Description

The concentrations of the individual ingredients of the solution do not exceed the limits when notification according to Regulation (EC) N:o 1907/2006 of the European Parliament and Council is needed

Hazardous ingredients:

CAS number or other code	Name of the ingredient	Concentration % w/w	Warning symbol, R phrases and S phrases

Full chemical name of the ingredient (CAS number: name):

Other information:

4. First Aid Measures

Special instructions: Wearing of gloves and other protective clothing are advised.**Inhalation:** Remove from exposure immediately. Get medical attention if needed.**Skin:** Wash the area of exposure with water.**Splashes in eyes:** Wash the eyes for at least 15 minutes, lifting upper and lower eyelids occasionally until no evidence of chemical remains. Get medical attention if needed.**Ingestion:** Seek medical advice.**Information to doctor or other trained persons giving first aid:**

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5. Fire-Fighting Measures

Suitable extinguishing media: CO₂, dry chemical, water spray, alcohol resistant foam.

Extinguishing media which must not be used for safety reasons:

Special exposure hazards in a fire:

Special protective equipment for a fire:

Other instructions:

6. Accidental Release Measures

Personal precautions: Wear appropriate personal protective equipment.

Environmental precautions:

Methods for cleaning up: Sweep up, place in a container, and hold for waste disposal.

Other instructions:

7. Handling and Storage

Handling: Handling and storage in accordance with all current regulations and standards.

Storage: Store in a closed container, in a cool, dry, ventilated area.

8. Exposure Controls/Personal Protection

Technical measures for exposure controls:

Limit values for workplace air:

TLV values:

Other information on limit values:

Personal protective equipment

Special instructions for protection and hygiene:

Respiratory protection:

Hand protection: Wear protective gloves.

Eye protection: Safety glasses or goggles.

Skin protection: Wear clean body-covering clothing.

9. Physical and Chemical Properties

Physical state, color and odor: Transparent, colorless, odorless.

pH:

Information on changes in the physical state

Boiling point/boiling range: n.a.

Melting point/melting range: n.a.

Decomposition temperature: n.a.

Flash point: n.a.

Flammability (solid/gas): n.a.

Autoflammability: n.a.

Explosion hazard: n.a.

Explosive limits

- a) lower: n.a.
- b) upper: n.a.

Oxidizing properties: n.a.

Vapor pressure: n.a.

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Relative density: n.a.**Solubility** a) water solubility: soluble
b) fat solubility: n.a.**Partition coefficient (for ingredients): n-octanol/water:****Viscosity:** n.a.**Other information:**

10. Stability and Reactivity

Conditions to avoid:**Materials to avoid:****Hazardous decomposition products:**

11. Toxicological Information

Acute toxicity:**Irritancy and corrosiveness:****Sensitization:****Subacute, subchronic and prolonged toxicity:****Empirical data on effects on humans:****Other information on health effects:**

12. Ecological Information

Persistence in the environment

Biodegradation:

Chemical degradation:

Bioaccumulation:**Mobility:****Toxic effects on organisms**

Aquatic toxicity:

Other toxicity:

Other information:

13. Disposal Conditions

Dispose in accordance with all applicable regulations.

14. Transport Information

UN number:**Packaging category:****Land transport**

Transport class:

Risk code:

Name according to bill of freight:

Other information:

Sea transport

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IMDG class:

Correct technical name:

Other information:

Air transport

ICAO/IATA class:

Correct technical name:

Other information:

15. Regulatory Information**Chemical Safety Assessment:** Not required.**Information on the warning label**

Letter code of the warning symbol and indications of danger for the preparation:

Names of the ingredients given on the warning label:

R phrases:

S phrases:

Special regulations on certain preparations:

National regulations:**16. Other Information****R phrases used****S phrases used****Directions for use****Other information**

The information here is believed to be correct as of the date hereof but is provided without warranty of any kind. The recipient of our products is responsible for observing any laws and guidelines applicable.

Additional information available from

Finnzymes Oy

Sources of information used in the compilation of the safety data sheet

MSDS Canadian Centre for Occupational Health and Safety

MSDS US Centre for Occupational Health and Safety

International Chemical Safety Cards

Revisions

16.11.2007: Updated to meet REACH regulation requirements.