

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product code LF001, LF002, LF003, LF003-01, LF004, LF005, LF006, LF006-01, LF007, LF008, LF009, LF010, LF011, LF012, LF013, LF014, LF015, LPFR-P100, LPFR-P030, LPFR-P010

Product name Luc-Pair™ Duo-Luciferase Assay Kit 2.0, Luc-Pair™ Duo-Luciferase HS Assay Kit, Luc-Pair™ Duo-Luciferase HT Assay Kit, Luc-Pair™ Firefly Luciferase HS Assay Kit, Luc-Pair™ Firefly Luciferase HT Assay Kit, Luc-Pair™ Renilla Luciferase HS Assay Kit, Luc-Pair™ Duo-Luciferase HT Assay Kit

Contact manufacturer

GeneCopoeia Inc.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Components

[Cas. No. 2591-17-5]	D-luciferin
[Cas. No. 55779-48-1]	Coelenterazine
[Cas. No. 1185-53-1]	Tris-Cl
[Cas. No. 16674-78-5]	MgAc
[Cas. No. 7647-14-5]	NaCl
[Cas. No. 3483-12-3]	1,4 dithiothreitol
[Cas. No. 987-65-5]	ATP
[Cas. No. 6381-92-6]	EDTA, disodium salt
[Cas. No. 56-81-5]	Glycerol
[Cas. No. 9002-93-1]	TritonX-100
[Cas. No. 6976-37-0]	Bis-Tris methane

3. HAZARDS IDENTIFICATION

Emergency Overview

The toxicological properties of these chemicals have not been investigated. All materials and mixtures may present unknown hazards and should be used by workers technically qualified to handle potentially hazardous chemicals.

Principle Routes of Exposure/

Potential Health effects

Eyes	No information available
Skin	No information available
Inhalation	No information available
Ingestion	No information available

Specific effects

Carcinogenic effects	No information available
Mutagenic effects	No information available
Reproductive toxicity	No information available
Sensitization	No information available

Target Organ Effects

No information available

HMS

Health	0
Flammability	0
Reactivity	0

4. FIRST AID MEASURES

Skin contact	Wash off immediately with plenty of water
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.
Ingestion	Never give anything by mouth to an unconscious person
Inhalation	Move to fresh air
Notes to physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	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

7. HANDLING AND STORAGE

Handling	No special handling advice required
Storage	Keep in properly labeled containers

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls

Exposure limits

Engineering measures	Ensure adequate ventilation, especially in confined areas
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Personal protective equipment

Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment
Hand protection	Protective 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 Liquid

Important Health Safety and Environmental Information

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
Oxidizing properties	No information available	
Water solubility	No data available	

10. STABILITY AND REACTIVITY

Stability	Stable.
Materials to avoid	No information available
Hazardous decomposition products	No information available products
Polymerization Hazardous	polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Principle Routes of Exposure/

Potential Health effects

Eyes	No information available
Skin	No information available
Inhalation	No information available
Ingestion	No information available

Specific effects

Carcinogenic effects	No information available
Mutagenic effects	No information available
Reproductive toxicity	No information available
Sensitization	No information available

Target Organ Effects No information available

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	No information available
Subsidiary Class	No information available
Packing group	No information available
UN-No	No information available

15. REGULATORY INFORMATION

International Inventories

U.S. Federal Regulations

SARA 313

Not regulated

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

WHMIS hazard class:

Non-controlled

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

16. OTHER INFORMATION

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

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End of Safety Data Sheet