

Section 1. Product and Manufacturer Identification

Product Name:	Renilla Luciferase Reagent Buffer Component of: TWO-Step Luciferase Assay System (Cat# 60683)
Catalog Number:	78264-1, 78264-2
CAS number:	Not available.
Recommended Usage:	This product is intended for use in a research setting for the growth of cell culture. This product is sold only for research use by qualified laboratory personnel, and is not to be used as a drug, medical device, food additive, cosmetic, nor household chemical. It is not to be used in diagnostic, therapeutic, consumer, and agricultural applications.
Manufacturer Information:	BPS Bioscience, Inc. 6405 Mira Mesa Blvd., Suite 100 San Diego, CA 92121 USA. Tel: 1-858-202-1401 www.bpsbioscience.com

For a complete list of components shipped with a product, please review the product datasheet, which is available on our website at www.bpsbioscience.com. A safety datasheet for each component is available upon request.

Section 2. Hazard(s) Identification

Hazard Classification

Not a hazardous substance or mixture according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and EU CLP (Regulation (EC) No. 1272/2008).

Hazard Pictograms: n/a

Health Hazards:

Respiratory sensitization	0
Skin sensitization	0

Reproductive Toxicity	0
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Physical Hazards: None known

Environmental Hazards: None known

Hazard Statement(s): None known

Precautionary statements

Prevention: Not Applicable

Response: Not Applicable

Storage: Not Applicable

Disposal: Not Applicable

Other Hazards: Not Applicable

Section 3. Composition and Information on Ingredients

Component	CAS No.	Common Name	EINECS-No	Classification	Weight-%
No applicable chemicals	n/a	n/a	n/a	n/a	n/a

See product datasheet for formulation details. This product consists of cell culture media containing amino acids, sugars, and salts. Contains up to 10% fetal bovine serum or calf serum.

The physical properties of this product have not been investigated thoroughly. We recommend handling all chemicals with caution.

Fetal bovine serum (FBS) is ISIA-certified and sourced from the United States of America. No viruses or bacteria are known to be present; however, appropriate precautions for biological materials should be used. This product is intended for research only and is not for direct administration into animals or humans.

Section 4. First Aid Measures

Description of First Aid measures

Skin contact: Rinse with plenty of water. Immediate medical attention is not required.

Eye contact: Rinse cautiously with water for several minutes, including under the eyelids. Remove contact lenses, if present and easy to do. Rinse for at least 15 minutes. Get medical advice/attention if you feel unwell or are concerned.

Ingestion: Rinse mouth with water. If you feel unwell, seek medical advice.

Inhalation: Remove source of exposure or move person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell or are concerned.

Notes to Physician: Treat symptomatically.

Most important symptoms and effects, both acute and delayed:

No known significant effects or critical hazards.

Indication of any immediate medical attention and special treatment needed:

None.

Section 5. Fire Fighting Measures

Conditions of flammability	This product is not flammable.
Suitable extinguishing media	Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical.
Unsuitable extinguishing media	No data available.
Special hazards arising from the substance or mixture	None known.
Special protective equipment for firefighters	Standard procedure for chemical fires.

Section 6. Accidental Release Measures

Personal precautions and protective equipment	Ensure adequate ventilation, and avoid breathing vapors, mist or gas. Avoid dust/aerosol formation. Always wear recommended Personal Protective Equipment. See section 8 for more information.
Emergency procedures	No special emergency precautions required.
Environmental precautions	No special environmental precautions required.
Methods and material for containment and cleaning up	Soak up with inert absorbent material.
Reference to other sections	See section 8 for more information.

Section 7. Handling and Storage

Precautions for Safe Handling	Use personal protective equipment as required. No special handling advices are necessary.
Precautions for protection against explosions and fires	Not applicable.

Precautions for minimizing the release of the chemical into the environment

No special environmental precautions are needed.

Conditions for safe storage, including any incompatibilities

Keep container tightly sealed in a dry, cool and well-ventilated place.
Recommended storage temperature: As described in technical data sheet.

Specific end use(s)

For research use only. Serum and blood proteins are not for direct administration into humans or animals.

Section 8. Exposure Controls, Personal Protection

Control Parameters

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (8-hour TWA)	ACGIH OEL (STEL)
No applicable chemicals	n/a	n/a	n/a	n/a

The lists that were valid during the creation of this document were used as basis.

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Exposure Controls

Personal Protective Equipment (PPE)

Respiratory protection

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standard, such as NIOSH (US) or CEN (EU).

Hand protection

Handle with suitable chemical resistant gloves. Gloves must be inspected prior to use. Use proper glove removal. Wash and dry hands.

Eye protection

Tight sealing safety goggles with side-shields conforming to NIOSH (US) or EN 166(EU).

Body protection

Wear suitable impervious protective clothing.

Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No special environmental precautions are needed.

Section 9. Physical and Chemical Properties

Physical and chemical properties

Physical state	Frozen liquid
Odor	No data available
Odor threshold	No data available
pH	6-8
Molecular weight	No data available
Melting Point / melting range	-10°C to 0°C
Boiling point / boiling range	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapor Pressure	No data available
Vapor density	No data available
Relative density	No data available
Specific gravity	No data available
Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

Other information No data available

Section 10. Stability and Reactivity

Chemical Stability Stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid No data available

Incompatible materials Strong oxidizing agents

Hazardous decomposition products No data available

Polymerization Hazardous polymerization does not occur under conditions of normal use.

Section 11. Toxicological Information

Information on toxicological effects

There is no evidence available indicating acute toxicity.

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LD50	Concentration / %
No applicable chemicals	n/a	n/a	n/a	n/a

Skin corrosion / irritation No data available

Serious eye damage / irritation No data available

Respiratory or skin sensitization No data available

Specific target organ toxicity (STOT) – single exposure No data available

Specific target organ toxicity (STOT) – repeated exposure No data available

Carcinogenicity No data available

Germ cell mutagenicity No data available

Reproductive toxicity	No data available
Aspiration hazard	No data available
Principle Routes of Exposure	Respiratory organs, mouth, skin, and eyes.
Symptoms of exposure	No data available
Additional information	No data available

Section 12. Ecological Information

Ecotoxicity	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.
Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Results of PBT and vPvB assessment	No information available

Section 13. Disposal Considerations

Disposal of Product and Containers

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Section 14. Transport Information

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulation

UN Number	Not Regulated
UN proper shipping name	Not Applicable

Transport hazard class(es)	Not Applicable
Packing group	Not Applicable
Special Precautions for user	Not Applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not Applicable

Section 15. Regulatory Information

Chemical Name	US TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
No applicable chemicals	n/a	n/a	n/a

TSCA 12(b) - Notices of Export

Not applicable

U.S. Federal Regulations

SARA 302 Components

Not applicable

SARA 313 Components

Not applicable

SARA 311/312 Hazards

Not applicable

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs)

Product does not contain HAPs.

CWA (Clean Water Act)

Not applicable

OSHA - Occupational Safety and Health Administration

Not applicable

CERCLA

Not Applicable

U.S. Department of Transportation

Reportable Quantity (RQ): Not applicable

DOT Marine Pollutant: Not applicable
 DOT Severe Marine Pollutant: Not applicable

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

U.S. State Regulations

California Prop 65

Product does not contain chemicals listed under Proposition 65.

US State Right To Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
No applicable chemicals	n/a	n/a	n/a	n/a	n/a

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Chemical Name	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
No applicable chemicals	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Mexico - Grade

Not applicable.

WHMIS Hazard Class

Not Applicable.

Section 16. Other Information

Revision date: May 5, 2025

Contact Information:

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References

- ECHA:<http://echa.europa.eu/>
- TOXNET:<http://toxnet.nlm.nih.gov/>
- eChemPortal:<http://www.echemportal.org/>
- LOLIdatabase:<https://www.chemadvisor.com/loli-database>

Abbreviations and acronyms

TWA - Time-Weighted Average
OELs - Occupational Exposure Limits
STEL - Short Term Exposure Limit
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
KECL - Korean Existing and Evaluated Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
CEPA - Canadian Environmental Protection Act
EPA - Environmental Protection Agency
OSHA - Occupational Safety and Health Administration of the US Department of Labor
IATA - International Air Transport Association
DOT - Department of Transportation
IMDG - International Maritime Dangerous Goods
ACGIH - American Conference of Governmental Industrial Hygienists
NIOSH - National Institute for Occupational Safety and Health
AIHA - American Industrial Hygiene Association
HMIS - Department of Defense Hazardous Materials Information System
NTP - National Toxicology Program
IARC - International Agency for Research on Cancer

This product is for research use only and is not intended for human or animal diagnostic or therapeutic uses. The recipient is responsible for ensuring that, where applicable, existing laws

and guidelines are observed. All materials and mixtures may present unknown hazards and should be used with caution.

BPS Bioscience provides this information in good faith and is based on our present knowledge. This information shall not be taken as being all inclusive and is to be used only as a guide. This SDS does not constitute a warranty of any kind.

End of Safety Data Sheet