



according to Regulation (EC) No. 1907/2006 (REACH)

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1. Identification

Product identifier

Product name LumiFlash™ Ultima Chemiluminescent Substrate

Product number LF08-10S / LF08-100 / LF08-500

Recommended use Biochemical reagent for research use only

Details of the supplier of the safety

data sheet

Manufacture / Supplier Energenesis Biomedical Co., Ltd.

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2. Hazard(s) identification

Classification of the substance or

mixture

Not a hazardous substance or mixture according to Regulation

(EC) No. 1272/2008 [CLP]

Label elements Not a hazardous substance or mixture according to Regulation

(EC) No. 1272/2008 [CLP]

Other hazards

This substance/mixture contains no components considered to

be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or

higher.

3. Composition/information on ingredients

Substance/mixture	Mixture
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Component	Description	Content
Solution A	contains 5-amino-1,2,3,4-tetrahydrophthalazine-1,4-dione	LF08-10S: 1 mL LF08-100: 50 mL LF08-500: 250 mL
Solution B	contains Hydrogen peroxide	LF08-10S: 1 mL LF08-100: 50 mL LF08-500: 250 mL

CAS No. EC No. Index No.	Component Name Synonyms	1272/2008 (CLP)	Percent
521-31-3 208-309-4 —	5-amino-1,2,3,4- tetrahydrophthalazine-1,4- dione		<0.1
7722-84-1 231-765-0	Hydrogen peroxide		<0.1



according to Regulation (EC) No. 1907/2006 (REACH)

008-003-00-9	
Additional information	For the full text of the H-Statements mentioned in this Section,
	see Section 16.

4. First aid measures

Description of first aid measures

Eye Contact Flush eyes with plenty of water for at least 20 minutes retracting

eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Remove contact lenses, clean before

re-use. Get immediate medical attention.

Inhalation Remove to fresh air. If breathing is difficult, have a trained

individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get

medical attention immediately.

Skin Contact Wash with soap and water. Remove contaminated clothing and

launder immediately, and discard contaminated leather goods, and wash before re-use. Get medical attention immediately if

irritation develops or persists.

Ingestion Wash out mouth with water. Remove victim to fresh air and keep

at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water or milk to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention

immediately.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described

in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special

treatment needed

No data available

5. Firefighting measures

Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

Special hazards arising from the

substance or mixture

No data available

Advice for fire-fighters Wear self-contained breathing apparatus for firefighting if

necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency

procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe

areas.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let

product enter drains.





according to Regulation (EC) No. 1907/2006 (REACH)

Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for

disposal.

Reference to other sections For disposal see section 13.

7. Handling and storage

Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or

mist. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 2-8 °C

Specific end use(s) Apart from the uses mentioned in section 1 no other specific

uses are stipulated.

8. Exposure controls/personal protection

Control parameters Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety

practice.

Personal protective equipment

Eye protection

Wear chemical safety goggles. An eye wash station must be

available where this product is used.

Skin and body protection Impervious clothing, The type of protective equipment must be

selected according to the concentration and amount of the

dangerous substance at the specific workplace.

Respiratory protection A respiratory protection program that meets OSHA's 29 CFR

1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Hand protection Wear chemically resistant gloves, Inspect gloves for chemical

break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work. Have a safety shower available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Form: liquid Color: clear

Odour Odorless

Odour Threshold

pH

No data available

No data available

Melting point/freezing point

No data available

Initial boiling point and boiling range

No data available

Flash point No data available





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Evaporation rate No data available Flammability (solid, gas) No data available Lower and upper explosive (flammable) limits No data available No data available Vapor pressure Vapor density No data available Relative density No data available Solubility No data available Solubility in water No data available Partition coefficient: n-octanol/ water (log Kow) No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity No data available

10. Stability and reactivity	
Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No data available
Incompatible materials	Strong bases, Powdered metals
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information	
Information on toxicological	No data available
effects	
Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	No data available

12. Ecological information	
Toxicity	No data available





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Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

Results of PBT and vPvB

assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very

persistent and very bioaccumulative (vPvB) at levels of 0.1% or

higher.

Other adverse effects No data available

13. Disposal considerations

Waste treatment methods

Product Offer surplus and non-recyclable solutions to a licensed disposal

company.

Contaminated packaging Dispose of as unused product.

14. Transport information

IATA / ADR / RID / IMDG Classified as dangerous in the meaning of transport regulations.

UN number –

UN proper shipping name Not dangerous goods

Transport hazard class(es) —

Packaging group —

Environmental hazards no

Special precautions for user No data available

Transport in bulk according to

Annex II of MARPOL73/78 and the

IBC Code

No data available

15. Regulatory information

Safety, health and environmental regulations/legislation specific for

the substance or mixture

This safety datasheet complies with the requirements of

Regulation (EC) No. 1907/2006.

Chemical safety assessment No data available

16. Other information

Abbreviations



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ADR European Agreement Concerning the International Carriage of

Dangerous Goods by Road

BEIs Biological exposure indices

IMDG International Maritime Dangerous Goods

IATA International Air Transport Association-Dangerous Goods

Regulations

CAS Chemical Abstracts Service (division of the American Chemical

Society)

LD50 Lethal dose, 50 percent

OSHA Occupational Health and Safety Administration

PEL Permissible Exposure Limit

RID Regulations Concerning the International Carriage of Dangerous

Godds by Rail

STEL Short Term Exposure Limit
TWA Time Weighted Average

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