

SAFETY DATA SHEET

Doc. ID: HPB-00005-75 Rev. AA Issued (year/month/day) 2015/05/18

Section 1 Identification of the Substance/mixture and of the Company/undertaking

1.1 Product Identifier

Product Name Lumigen HyPerBlu Chemiluminescent Reagent

Part Number HPB-00005, HPB-00008, HPB-0050, HPB-100, HPB-500

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product Use For laboratory use only. See product literature for details.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Lumigen,Inc. (A Beckman Coulter

company)

22900 W. Eight Mile Road Southfield, MI 48033, U.S.A.

Tel:248-351-5600

e-mail address ksrashid@beckman.com

1.4 Emergency telephone number

Telephone number (24H) ChemTel Expert Assistance

Hotline/MSDS Fax Access by dialing 800-255-3924 or for

International +01-813-248-0585

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description Mixture

Colorless; Clear; Liquid; Odorless

Classification according to EC 1272/2008 (CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

Classification according to EC Directives 1999/45/EC and 67/548/EEC

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS

Skin Irritation Category 3

2.2 Label Elements According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

Hazardous Ingredients

Tris(hydroxymethyl) – aminomethane

Pictogram

None

Signal Word WARNING

SAFETY DATA SHEET Doc. ID: HPB-00005-75 AA Issued (year/month/day) 2015/05/18

Section 2 Hazards Identification (Continued)

Hazard Statements

H316 Causes mild skin irritation. **Precautionary Statements**

P332+P313 If skin irritation occurs: Get medical advice/attention. Product label will display most significant precautionary statements.

2.3 Other hazards Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

Section 3 Composition and Information on Ingredients

3.2 Mixtures

Hazardous Ingredients:		Hazard Classification of Pure Ingredients			
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272/2008 CLP/GHS	GHS	
Tris(hydroxymethyl)– aminomethane	3-5	Xi;R36/37/38	Eye Irrit. 2 STOT SE 3 Skin Irrit. 2 H315; H319; H335	Eye Irrit. 2 STOT SE 3 Skin Irrit. 2 H315; H319; H335	
CAS # 77-86-1 EINECS # 201-064-4 Index # Not available					

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for hazard class, hazard statements and risk phrase description

Section 4 First Aid Measures

4.1 Description of first aid measures

Inhalation If product is inhaled, move exposed individual to fresh air. If individual is not

breathing, begin artificial respiration immediately and obtain medical attention.

Eye Contact If product enters eyes, wash eyes gently under running water for 15 minutes

or longer, making sure that the eyelids are held open. If pain or irritation occur,

obtain medical attention.

Skin Contact In case of skin contact, flush with copious amounts of water for at least 15

minutes. Remove contaminated clothing and shoes. If pain or irritation occur,

obtain medical attention.

Ingestion If ingested, wash mouth out with water. If irritation or discomfort occurs, seek

medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 Toxicological Information for more detailed health information.

Causes mild skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

Section 5 Fire Fighting Measures

Flammable Properties Nonflammable aqueous solution.

5.1 Extinguishing Media In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam.

For large fires use extinguishing media suitable for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards

No special hazards determined.

Hazardous Combustion Products

No combustion products posing significant hazards are expected from this

product (an aqueous solution).

5.3 Advice for fire fighters

Protective Equipment Self-contained breathing apparatus is recommended for firefighters in all

chemical fire situations.

5.4 Additional information No further relevant information available.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions Observe general safety guidelines for protection; avoid eye and skin contact.

Wear protective gloves, protective clothing and eye/face protection.

6.2 Environmental Precautions No special requirements.

6.3 Methods and material for containment and cleaning up

Spill and Leak Procedures Absorb spilled material with an appropriate inert, non-flammable absorbent and

dispose according to local regulations.

6.4 Reference to other sections Refer sections 8 and 13.

Section 7 Handling and Storage

7.1 Precautions for safe handling Use good laboratory procedures; avoid eye and skin contact.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from incompatible material (see Section 10).

To maintain efficacy, store according to the instructions in the product labeling.

7.3 Specific end uses No further relevant information available.

Section 8 Exposure Controls and Personal Protection

8.1 Control parameters

Exposure Limits

US OSHA None established

Section 8 Exposure Controls and Personal Protection (Continued)

ACGIH

None established

DFG MAK

None established

Ireland

None established

None established

None established

None established

None established

None established

8.2 Exposure controls

Engineering Controls No special engineering controls are required. Use with good general ventilation.

Eye Protection Safety glasses or chemical goggles should be worn to prevent eye contact.

Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate

government standards.

Skin Protection Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin

contact.

Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate

government standards.

Respiratory ProtectionUnder normal conditions, the use of this product should not require respiratory

protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory

protection should be evaluated by a qualified professional.

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State Liquid Specific Gravity 1.0

(Water=1.0)

Color Colorless Solubility

Transparency Clear Water Soluble

Odor Odorless Organic Not determined

pH 9.35 @25°C Partition coefficient: Not determined

n-octanol/water

Freezing Point Not determined Auto-ignition Temp. Not applicable

Boiling Point 100°C (212°F) **Decomposition** Not determined

Temperature

Flash Point Not applicable Percent Volatiles Not available

Evaporation Rate Not determined Vapor Pressure Not determined

Flammability (Solid, Gas) Not available Viscosity Not determined

Flammability Limits Not applicable Explosive Properties Not applicable

Section 9 Physical and Chemical Properties (Continued)

Vapor Density Not determined Oxidizing Properties Not determined

Odor Threshold Not applicable

9.2 Other Information No further relevant information available.

Section 10 Stability and Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

No further relevant information available.

10.4 Conditions to AvoidTo maintain product performance keep away from strong acids, strong bases,

strong oxidizers.

Avoid exposure to heat and direct sunlight.

10.5 Incompatible materials No further relevant information available.

10.6 Hazardous Decomposition Products

No decomposition products posing significant hazards would be expected from

this product (an aqueous solution).

Section 11 Toxicological Information

11.1 Information on toxicological effects

Toxicity Data for Hazardous Ingredients

Not applicable

Primary Routes of Exposure Eye contact, ingestion, inhalation, and skin contact.

Skin Corrosion/Irritation Causes mild skin irritation.

Serious eye damage/eye

irritation

No data available.

Respiratory/skin sensitization No data available.

Carcinogenicity No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP,

OSHA or 67/548/EEC Annex I.

Germ cell mutagenicity

No data available

Reproductive Toxicity

No data available.

Specific target organ toxicity – single exposure

No data available.

Specific target organ toxicity - repeated exposure

No data available.

Section 11 Toxicological Information (Continued)

Aspiration hazard No data available.

Other Information No further relevant information available.

Section 12 Ecological Information

12.1 Ecotoxicity

Fresh Water Species
Microtox
No information available.
Water Flea
Fresh Water Algae
No information available.

12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

12.6 Other Adverse Effects No further relevant information available.

Section 13 Disposal Considerations

13.1 Waste treatment methods

Product Waste DisposalChemical residues and remains should be routinely handled as special waste. This

must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Package disposal Dispose of waste product, unused product and contaminated packaging in

compliance with federal, state and local regulations. If unsure of the applicable

requirements, contact the authorities for information.

13.2 Additional information Suggested European waste catalogue 18 01 07 - chemicals other than those

mentioned in 18 01 06. Dispose in accordance with national, state and local

waste regulations.

Section 14 Transport Information

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

Section 15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture US Federal and State Regulations

SARA 313 Hydrochloric Acid is subject to reporting requirements of Section 313, Title III of

SARA. 1.0 % de minimis concentration

SAFETY DATA SHEET Doc. ID: HPB-00005-75 AA

Issued (year/month/day) 2015/05/18

Section 15 Regulatory Information (Continued)

CERCLA RG's, 40 CFR 302.4 Hydrochloric Acid is listed.

California Proposition 65 No ingredients listed.

Massachusetts MSL Hydrochloric Acid is listed.

New Jersey Dept. of Health RTK List

Hydrochloric Acid is listed.

Pennsylvania RTK Hydrochloric Acid is listed.

EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

Water Hazard Class (Germany) WGK 1, low water endangering

REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.

No ingredients listed.

According to EC Directives (1999/45/EC and 67/548 EEC)

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

Canada

WHMIS Classification: D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic

(Skin Irritation)

PIN Not applicable

Ingredients on Ingredient Disclosure List

Methanol

Ingredients with unknown toxicological properties

None

15.2 Chemical Safety Assessment A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.

Section 16 Other Information

Revision Changes New document

Hazard Class, hazard statements and risk phrase description from section 3

Xi - Irritant

R36/37/38 Irritating to eyes, respiratory system and skin.

Eye Irrit. 2 - Eye Irritation Category 2 Skin Irrit. 2 - Skin Irritation Category 2

STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

SAFETY DATA SHEET Doc. ID: HPB-00005-75 AA

Issued (year/month/day) 2015/05/18

Section 16 Other Information (Continued)

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists

ADR - European Agreement Concerning The International Carriage Of Dangerous

Goods By Road

CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act

CLP - Classification, Labeling and Packaging

DFGMAK - Republic Germany's maximum exposure limit

GHS - Globally Harmonized System

HCS - Hazard Communication Standard

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods

IOELVs - European Unions' Indicative Occupational Exposure Limit Values

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PBT - Persistent bioaccumulative and toxic substances

SARA - Superfund Amendments and Reauthorization Act

TDG - Canadian Transportation Of Dangerous Goods Regulations.

UN GHS - United Nations Globally Harmonized System

US DOT - United States Department of Transportation

WHMIS - Workplace Hazardous Material Information System

vPvB - Very persistent and very bioaccumulative substances

Lumigen is a registered trademark of Lumigen, Inc. The stylized logo is a trademark of Lumigen, Inc.

For further information, please contact your local Lumigen representative.

WHILE LUMIGEN BELIEVES THE INFORMATION CONTAINED HEREIN IS VALID AND ACCURATE, MAKES NO WARRANTY OR REPRESENTATION AS TO ITS VALIDITY, ACCURACY, OR CURRENCY. LUMIGEN SHALL NOT BE LIABLE OR OTHERWISE RESPONSIBLE IN ANY WAY FOR USE OF EITHER THIS INFORMATION OR MATERIALS TO WHICH IT APPLIES. DISPOSAL OF HAZARDOUS MATERIALS MAY BE SUBJECT TO LOCAL LAWS OR REGULATIONS.