



SAFETY DATA SHEET

Doc. ID: 8547194 AG
Revised (year/month/day) 2013/04/05

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

1.1 Product Identifier

Product Name LH Series Diluent
Part Number 8448194, 8547194

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

Product Use For In Vitro Diagnostic Use. See product literature for details.

1.3 Details of supplier of the safety data sheet

Manufacturer

Beckman Coulter, Inc.
250 S. Kraemer Blvd
Brea, CA 92821, U.S.A.
Tel: 800-854-3633

EC REP Address

Beckman Coulter Ireland Inc.
Mervue Business Park
Mervue, Galway, Ireland
Tel: 353 91 774068

e-mail address

SDSNT@beckman.com

1.4 Emergency telephone number

Telephone number (24H) Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887

Distributor and Emergency Phone No.

Refer to attached list, Document ID: [472050](#), for local distributor and emergency phone numbers.

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description Mixture
Colorless; Clear; Liquid; Odorless

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)

US OSHA Not applicable

WHMIS Exempt

2.2 Label Elements

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)

2.3 Other Hazard

None identified.

See Section 11 Toxicological Information for more detailed health information.

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Section 3 Composition and Information on Ingredients

3.2 Mixture

Hazardous Ingredients: None

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. 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.

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 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 (a dilute 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 None

Section 6 Accidental Release Measures

6.1 Personal precaution, protective equipment and emergency procedures

Personal Precautions No special precautions are necessary. Use good laboratory procedures.

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Section 6 Accidental Release Measures (Continued)

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| 6.2 Environmental Precautions | Contain spill to prevent migration. |
| 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

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| 7.1 Precautions for safe handling | No special precautions are necessary; use good laboratory procedures. |
| 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 data available. |

Section 8 Exposure Controls and Personal Protection

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| 8.1 Control parameters | |
| Exposure Limits | |
| US OSHA | None established |
| ACGIH | None established |
| DFG MAK | None established |
| Ireland | None established |
| NIOSH | None established |
| Japan | None established |
| 8.2 Exposure controls | |
| Engineering Controls | No special engineering controls are necessary for normal handling of this product. |
| 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 Protection | Under normal conditions, the use of this product should not require respiratory protection. |

Section 9 Physical and Chemical Properties

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| 9.1 Information on basic physical and chemical properties | | | |
| Physical State | Liquid | Specific Gravity
(Water=1.0) | 1 @20°C |

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Section 9 Physical and Chemical Properties (Continued)

Color	Colorless	Solubility	
Transparency	Clear	Water	Miscible
Odor	Odorless	Organic	Not determined
pH	7.0	Coefficient of Water/Oil Distribution	Not determined
Freezing Point	Not determined	Autoignition Temp.	Not applicable
Boiling Point	Not determined	Decomposition Temperature	Not determined
Flash Point	Not applicable	Percent Volatiles	Not applicable
Evaporation Rate	Not determined	Vapor Pressure	Not determined
Flammability (Solid, Gas)	Not applicable	Viscosity	Not determined
Flammable Limits	Not determined	Explosive Properties	Not applicable
Vapor Density	Not determined	Oxidizing Properties	Not determined
Odor Threshold	Not applicable		
9.2 Other Information	None		

Section 10 Stability and Reactivity

10.1 Reactivity	None
10.2 Chemical Stability	Stable under normal temperatures and pressures.
10.3 Possibility of hazardous reactions	None
10.4 Conditions to Avoid	Avoid contact with incompatible materials.
10.5 Incompatible materials	Strong acids Strong bases Strong oxidizers
10.6 Hazardous Decomposition Products	When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.

Section 11 Toxicological Information

11.1 Information on toxicological effects	
Toxicity Data for Hazardous Ingredients	Not applicable
Primary Routes of Exposure	The most likely routes of exposure are skin, eye contact and inhalation.

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Section 11 Toxicological Information (Continued)

Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.
Potential Effects of Acute Exposure	None identified.
Potential Effects of Chronic Exposure	None identified.
Symptoms of Overexposure	No specific symptoms identified.
Conditions Aggravated by Exposure	None identified.
Other Information	None identified.

Section 12 Ecological Information

12.1 Ecotoxicity	
Fresh Water Species	No information available.
Microtox	No information available.
Water Flea	No information available.
Fresh Water Algae	No information available.
12.2 Persistence and degradability	No information available.
12.3 Bioaccumulation	No information available.
12.4 Mobility in soil	No information available.
12.5 Results of PBT and vPvB assessment	Not applicable
12.6 Other Adverse Effects	None

Section 13 Disposal Considerations

13.1 Waste treatment methods	
Product Waste 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	None

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
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Section 15 Regulatory Information (Continued)

US Federal and State Regulations

SARA 313

Formaldehyde is subject to reporting requirements of Section 313, Title III of SARA. 0.1 % de minimis concentration

Magnesium Nitrate is subject to reporting requirements of Section 313, Title III of SARA.

CERCLA RG's, 40 CFR 302.4

Formaldehyde is listed.

Sodium Hydroxide is listed.

California Proposition 65

Formaldehyde has been identified by the State of California to cause cancer. The State of California has adopted a regulation which requires a warning be given to individual who may be exposed to chemicals identified by the State to cause cancer or reproductive harm. Accordingly, Beckman Coulter advises you of the following warning:

WARNING: This product contains a chemical known to the State of California to cause cancer.

Massachusetts MSL

Formaldehyde is listed.

Sodium Hydroxide is listed.

Sodium Sulfate is listed.

Magnesium Nitrate is listed.

New Jersey Dept. of Health RTK List

Formaldehyde is listed.

Propylene Glycol is listed.

Sodium Hydroxide is listed.

Magnesium Nitrate is listed.

Pennsylvania RTK

Formaldehyde is listed.

Propylene Glycol is listed.

Sodium Hydroxide is listed.

Sodium Sulfate is listed.

Magnesium Nitrate 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.

Canada

This product is exempt from WHMIS label and SDS requirements.

PIN

Not applicable

Ingredients on Ingredient Disclosure List

Formaldehyde

Propylene Glycol

Sodium Hydroxide

Ingredients with unknown toxicological properties

Product is exempt

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Section 15 Regulatory Information (Continued)

15.2 Chemical Safety Assessment Not available

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

Beckman Coulter Safety Rating	Flammability: 0 Health: 1 Reactivity with Water: 0 Contact: 1	Code 0=None 1=Slight 2=Caution 3=Severe
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Revision Changes	Revised per 453/2010 EC and ANSI Z400.1-2004 Standard.
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For further information, please contact your local Beckman Coulter representative.

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