

Release Date: 11/28/12

<b>REF</b>	
ADD List Number	Product Name

<b>09H48-02</b>	<b><i>CELL-DYN Emerald 18 Diluent 10L</i></b>
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Components:

<b>09H48</b>	<b>CELL-DYN Emerald Diluent</b>
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Abbott Customers:

For additional information, please contact your Abbott Customer Support Center Representative by calling 1-800-527-1869, 1-800-323-9100, or 1-800-235-5396.

Abbott employees:

For additional information relative to the content of the MSDSs, please contact your local Safety Representative.

## Safety Data Sheet


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### 1 Identification of the substance/mixture and of the company/undertaking

- **Product name:** CELL-DYN Emerald Diluent
  - **ADD List number:** 09H48
  - **Application of the substance / mixture:** For In Vitro Diagnostic Use
- **Manufacturer / Supplier:**  
Abbott Diagnostics  
100 Abbott Park Road  
Abbott Park, IL 60064-3500
- **Department issuing SDS:** Abbott Diagnostics Safety, Health and Environmental Assurance
- **Emergency telephone number:**  
Contact the CHEMTREC® Emergency Call Center for assistance with transportation or hazardous materials emergencies (24 hours/day, 7 days/week):
  - Telephone (800) 424-9300 (toll-free) if you are calling from within the United States, Canada, Puerto Rico and the Virgin Islands.
  - Telephone +1 (703) 527-3887, the international and maritime number (collect calls accepted), if you are calling from outside the United States or from a ship at sea.

### 2 Hazards identification

- **Classification of the substance or mixture**
  - **Classification system:**  
The classification was made according to U.S. OSHA 29 CFR 1910.1200 and 1910.1030 and applicable European regulations, and is expanded upon from company and/or literature data.
- **Label elements**
  - **Labelling according to EU guidelines:**
    - **Code letter and hazard designation of product:**  
 Xi Irritant
    - **Hazard-determining components of labelling:**  
1,3,5-tris(2-hydroxyethyl)hexahydro-1,3,5-triazine
    - **Risk phrases:**  
43 May cause sensitization by skin contact.
    - **Safety phrases:**  
24 Avoid contact with skin.  
35 This material and its container must be disposed of in a safe way.  
37 Wear suitable gloves.  
46 If swallowed, seek medical advice immediately and show this container or label.
  - **Additional information:** Refer to section 15 for labeling per Directives 67/548/EEC or 1999/45/EC.
  - **Routes of Exposure:** Skin

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## Product name: CELL-DYN Emerald Diluent

- **National Fire Protection Association (NFPA) ratings (scale 0-4)**  
 Health = 1  
 Fire = 0  
 Reactivity = 0
- **Hazard Overview**
  - **Health:** Sensitizer in contact with skin
  - **Fire:** Noncombustible
  - **Reactivity:** Minimal hazard - Stable, even in a fire. Not reactive with water. Not an oxidizer.

### • Carcinogenicity information

#### • OSHA (Occupational Safety and Health Administration)

None of the ingredients is listed.

- **Other hazards** This product may cause skin sensitization (allergic reactions) in some people.

## 3 Composition/information on ingredients

- **Chemical characterization:** Mixture of chemical and/or biological substances for in vitro diagnostic use.

#### • Hazardous chemical ingredients per U.S. OSHA criteria (29 CFR 1910.1200 Hazard Communication):

64-02-8	Tetrasodium ethylenediaminetetraacetate	0.10%
4719-04-4	1,3,5-tris(2-hydroxyethyl)hexahydro-1,3,5-triazine	0.10%

## 4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Remove from source of exposure. If irritation or signs of toxicity occur, seek medical attention.
- **After skin contact:**  
 Take off any clothing that the product touched.  
 Rinse skin with running water for 15 to 20 minutes. Seek medical attention if irritation or signs of toxicity occur.
- **After eye contact:**  
 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists, get medical advice/attention. Wash hands after handling.
- **After swallowing:** Rinse mouth with water. If irritation or signs of toxicity occur, seek medical attention.
- **Information for Medical Personnel**
  - **Most important symptoms and effects, both acute and delayed:**  
 Allergic reactions  
 Possibly immune response  
 This product may cause skin sensitization reactions in some people. See Section 11 for additional information.
  - **Medical conditions aggravated by exposure:**  
 Pre-existing skin ailments

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**Product name: CELL-DYN Emerald Diluent**

Skin allergies

## 5 Firefighting measures

### · Suitable extinguishing agents

Dry chemical, carbon dioxide (CO<sub>2</sub>), water spray or regular foam.

- Caution: CO<sub>2</sub> will displace air in confined spaces and may cause an oxygen-deficient atmosphere.
- For larger fires: There are no unique chemical or reactivity hazards that would impact firefighting decisions related to this product. Use firefighting measures that suit the environment.

### · Special hazards arising from the substance or mixture

There are no unique chemical or reactivity hazards that would impact firefighting decisions due to the chemicals in this product.

### · Protective equipment

For large fires, wear appropriate heat- and flame-resistant personal protective equipment and a NFPA/NIOSH approved positive-pressure, self-contained breathing apparatus.

## 6 Accidental release measures

### · Personal precautions, protective equipment and emergency procedures

Minimize exposure by using appropriate personal protective equipment as listed in Section 8. Stop leak if possible. Keep unprotected persons away.

### · Environmental precautions

Prevent liquid and vapor from entering sewage system, storm drains, surface waters, and soil.

### · Methods and material for containment and cleaning up

Blot up small volumes of spilled or spattered product with paper towels or similar materials.

Contain larger spills by placing absorbents around the outside edges of the spill. Absorb with any material suitable for water-based liquids - e.g. paper towels, universal sorbents, sand, diatomite, sawdust, etc.

Clean the affected area. Suitable cleaners are:

- warm water and detergent or similar cleansing agent

Dispose of spilled and contaminated material in accordance with Federal, State, and Local regulations. See Section 13 for information that may impact disposal of materials contaminated with this product.

### · Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- **Precautions for safe handling:** Avoid contact with skin.
- **Information about protection against explosions and fires:** No special measures required.
- **Requirements to be met by storerooms and receptacles:**  
Store only in the original container.

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### Product name: CELL-DYN Emerald Diluent

Refer to the package insert or product label for additional information on storage conditions for product quality.

- **Information about storage in one common storage facility:** Store in original packaging.
- **Further information about storage conditions:** Protect from heat and direct sunlight.

## 8 Exposure controls/personal protection

### · Components with Occupational Exposure Limits

#### 57-55-6 1,2-propylene glycol (0.022%)

WEEL	10 mg/m <sup>3</sup>
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#### · **General protective and hygienic measures:**

Always maintain good housekeeping and follow general precautionary measures. Do not eat, drink or store food and beverages in areas where chemicals or specimens are used. Wash hands before breaks, after handling reagents and specimens, and at the end of the workshift.

Avoid contact with the skin.

Immediately remove all soiled and contaminated clothing.

#### · **Breathing equipment:**

Normal use and storage of product - respiratory protection is not necessary if room is well ventilated.

Small-volume spills (e.g. small enough to clean up with a paper towel or small sorbent pad) - respiratory protection should not be necessary if room is well ventilated.

Other unusual conditions (e.g. volume spilled too big to clean up with materials in arm's reach) - Use appropriate NIOSH-approved air-purifying respirator if airborne chemical concentrations may exceed the exposure limit (if any) listed above.

Hazardous Materials Emergencies or Firefighting - use NIOSH/NFPA-approved respiratory protection.

#### · **Hand protection:**

Wear impervious gloves if hand contact with the material is anticipated. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

##### · **Material of gloves and breakthrough time of the glove material:**

The glove material must be suitable for use in a microbiological laboratory and have a measured breakthrough time of at least 30 minutes, such as those with a Class 2 protection index per EN374 (or equivalent standard applicable in your region). NOTE: This recommendation applies only to the product stated in this Safety Data Sheet. When dissolving in or mixing with other substances, contact the supplier of approved gloves.

#### · **Eye protection:**

Wear safety glasses or other protective eyewear. If splash potential exists, wear full face shield or goggles.

#### · **Body protection:**

Normal use: protect personal clothing from spatters and small spills. Wear a laboratory coat (or other protective clothing required by your institution).

Larger spills (e.g. that can saturate cloth): wear appropriate water-repellant covering over clothing.

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**Product name: CELL-DYN Emerald Diluent**

## 9 Physical and chemical properties

· <b>Form:</b>	Liquid
· <b>Color:</b>	Colorless
· <b>Odor:</b>	Odorless
· <b>pH-value at 20°C (68 °F)</b>	7
· <b>Melting point/Melting range:</b>	Not determined
· <b>Boiling point/Boiling range:</b>	Not determined
· <b>Flash point</b>	Not applicable
· <b>Flammability (solid, gaseous)</b>	Not applicable
· <b>Auto igniting</b>	Product is not self-igniting.
· <b>Danger of explosion</b>	Product does not present an explosion hazard.
· <b>Explosion limits</b>	
· <b>Lower:</b>	Not determined
· <b>Upper:</b>	Not determined
· <b>Density at 20°C (68 °F)</b>	1 g/cm <sup>3</sup> (8.345 lbs/gal)
· <b>Evaporation rate:</b>	Not determined
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Fully miscible
· <b>Water:</b>	98.0 %

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Acute toxicity**
- **LD50/LC50 values for hazardous ingredients per OSHA criteria:**

· <b>Ingredients (100% pure substance/s):</b>		
<b>4719-04-4 1,3,5-tris(2-hydroxyethyl)hexahydro-1,3,5-triazine</b>		
Oral	LD50	763 mg/kg (rat)

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## Product name: CELL-DYN Emerald Diluent

- **Primary toxicological effects of the final product:**
  - **Skin irritation:** No irritant effect.
  - **Eye irritation:** No irritant effect.
- **Sensitization:**  
Sensitization is possible with prolonged exposure, based on the reported properties of substituted s-triazine.
- **Additional toxicological information:** None
- **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>
None of the ingredients is listed.

· <b>NTP (National Toxicology Program)</b>
None of the ingredients is listed.
- **Target organs/systems:**  
Skin  
Immune system

## 12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Additional ecological information**
  - **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course, or sewage system.
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable
  - **vPvB:** Not applicable

## 13 Disposal considerations

- **Recommendation for disposal of unused product:**  
Dispose in accordance with federal, state and local regulations.
- **Recommendation for disposal of packaging:**  
Non-contaminated packaging may be used for recycling. Refer to applicable local regulations and institutional policies.  
For disposal of contaminated packaging, refer to applicable local regulations and institutional policies.
- **Recommended cleansing agent:** Water with cleansing agents, if necessary.

## 14 Transport information

- **UN-Number**
  - DOT, ADN, IMDG, IATA      none

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### Product name: CELL-DYN Emerald Diluent

- **UN proper shipping name**

- DOT, ADR, ADN, IMDG, IATA none

- **Transport hazard class(es)**

- DOT, ADR, ADN, IMDG, IATA

- Class none

- DOT, IMDG, IATA none

- **Environmental hazards**

- Marine pollutant: No

- **Additional information**

- DOT

- Remarks: Not restricted for transportation.

- ADR

- Remarks: Not restricted for transportation.

- IMDG

- Remarks: Not restricted for transportation.

- IATA

- Remarks: Not restricted for transportation.

### 15 Regulatory information

- **SARA (Superfund Amendments and Reauthorization Act of 1986 - USA):**

- **Section 302/304 (40CFR355.30 / 40CFR355.40):**

The product does not contain listed substances.

- **Section 313 (40CFR372.65):**

The product does not contain listed substances.

- **California Proposition 65 (USA):**

- **Chemicals known to cause cancer:**

The product does not contain listed substances.

- **Chemicals known to cause female reproductive toxicity:**

None of the ingredients is listed.

- **Chemicals known to cause male reproductive toxicity:**

None of the ingredients is listed.

- **Chemicals known to cause developmental reproductive toxicity:**

None of the ingredients is listed.

### 16 Other information

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**· Department issuing MSDS**

- Abbott Diagnostics Safety, Health and Environmental Assurance  
Department 0571

**· Contact**

- General information about this product:  
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Abbott Park, IL 60064-3500

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