



## Material Safety Data Sheet

Effective Date: February 2<sup>nd</sup>, 2010

Supersedes: October 28<sup>th</sup>, 2009

Calibration Dyes and Buffer C

### 1. Identification of the Material and Company/Undertaking

Product Name	Part Number
FAM300 Dye	500-0517
CY3-G Dye	500-0028
TEXAS RED-T Dye	500-0029
CY5-G Dye	500-0030
TET-C Dye	500-0065
A532-T Dye	500-0501
A647-T Dye	500-0503
CF1-T Dye	500-1000
CF6-T Dye	500-1001
LED Tuning Mix Dye	500-1008
Buffer C	500-0018

**Manufacturer:**

Cepheid  
904 Caribbean Drive  
Sunnyvale, CA 94089  
USA

**Telephone Numbers:**

(888) 838-3222 (6 AM – 5 PM Pacific time US)  
Outside of the US: 1 (408) 541-4191

**24-Hour Emergency Telephone:**

CHEMTREC (800) 424-9300  
Outside of the US: 1 (703) 741-5500

**E-mail:** techsupport@cepheid.com

The following MSDS provides information on the following solutions, dyes and buffer contained in Cepheid products. If manufacturing these solutions, dyes and buffers, consult the MSDSs for the individual ingredients contained in these products.

### 2. Hazards Identification

**Appearance:** These products are solutions of varying color depending on whether there is a dye component in each.

**Signal Word:** CAUTION

**Hazard Overview:** None of these products are considered hazardous under US hazard communication regulations (29 CFR 1910.1200), EU directives for classification and labeling of substances or mixtures or the Global



**Material Safety Data Sheet**

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*Calibration Dyes and Buffer C*

Harmonization System for classification and labeling of substances or mixtures.

**Statement of Known**

**Hazard:** These products would not be considered hazardous under normal conditions of use.

**EU Indicator of Danger:** Not applicable – not considered hazardous

**EU Risk Phrases:** Not applicable – not considered hazardous

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### **3. Composition Information on Ingredients**

None of the ingredients contained in these products are considered hazardous under US and EU regulations or GHS guidelines at their concentration in the products.

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### **4. First Aid Measures**

**Eye:** Flush thoroughly with water and notify supervisor and EHS personnel. If an irritation develops, get medical aid.

**Skin:** Flush thoroughly with water and notify supervisor and EHS personnel. If an irritation develops, get medical attention.

**Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do not induce vomiting unless directed to do so by medical personnel.

**Inhalation:** Remove to fresh air and get medical attention for any breathing difficulty.

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### **5. Fire Fighting Measures**

**Flammability/Explosivity:** None of the components of the kit are considered flammable or explosive.

**Extinguishing Media:** CO<sub>2</sub>, multipurpose dry chemical or vaporizing liquid fire extinguisher.

**Special Fire Fighting Procedures:**

Wear full protective clothing and a self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode for surrounding fire. Decontaminate all equipment after use.



**Material Safety Data Sheet**

*Effective Date: February 2<sup>nd</sup>, 2010*

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*Calibration Dyes and Buffer C*

**Hazardous Decomposition Products:** None expected.

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## 6. Accidental Release Measures

**For all components if spilled:**

If product/material is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment. For small spills, wear gloves and absorb spill with paper towel. Dispose of material according to local, State and Federal waste disposal regulations (see Section 13).

For larger spills, wear personal protective clothing to minimize exposure such as overgarment, gloves and eye protection (goggles), cover spill with absorbent material. Collect spilled material, absorbent, and rinse waters into suitable containers for proper disposal in accordance with applicable local, state or Federal waste disposal regulations (see Section 13).

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## 7. Handling and Storage

**Handling Precautions:** Avoid skin contact, eye contact and inhalation.

**Storage Requirements:** Store according to product labeling.

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## 8. Exposure Controls/Personal Protection

**Occupational Exposure**

**Limits:** None applicable..

**Engineering Controls:** None normally required. When practicable, handle material in enclosed or contained processes or in processes with effective local exhaust ventilation.

**Eye Protection:** Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face.

**Respiratory Protection:** When possible, handle material in enclosed processes or containers. If it is properly handled with effective ventilation or containment, respiratory protection should not be needed.

**Skin Protection:** Rubber gloves are recommended to minimize potential for skin contact. In laboratory setting, wear lab coat or other protective overgarment at a minimum to



## Material Safety Data Sheet

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minimize skin contact. Base the choice of protection on the job activity and potential for skin contact.

### Other:

Facilities storing or using this product should be equipped with an eyewash station and a safety shower. Wash hands, face and other potentially exposed areas immediately after handling material (especially before eating, drinking, or smoking). Decontaminate all protective equipment after use.

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## 9. Physical and Chemical Properties

**Physical State:** Aqueous solutions.

**Odor:** Components are odorless.

**Vapor Pressure:** Minimal.

**Evaporation Rate:** Minimal.

**Viscosity:** Reagents are aqueous.

**Boiling Point:** Near 100 degrees C .

**Freezing/Melting Point:** Near 0 degrees C

**Solubility:** Reagents are already aqueous; beads

**pH:** 6.6 – 8.6

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## 10. Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials.

**Incompatibilities with Other materials:** Strong oxidizing agents, peroxides, strong acids and bases, acid chlorides, acid anhydrides, alkali metals, ammonia.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, sodium oxides, potassium oxides, hydrogen chloride, cyanide.

**Hazardous Polymerization:** Will not occur.

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## 11. Toxicological Information

None of the ingredients contained in these products are considered hazardous under US and EU regulations or GHS guidelines at their concentration in the products. None of the ingredients are listed by NTP, IARC or OSHA as carcinogens.



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## 12. Ecological Information

**Ecotoxicity:** No data identified.

**Environmental Fate:** No data identified.

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## 13. Disposal Considerations

Consult your institution's environmental waste personnel on proper disposal of chemical products per local, state, and federal regulations. Institutions outside the USA should check their country hazardous waste disposal requirements.

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## 14. Transport Information

Transport in accordance with all federal, state, and local transportation regulations.

None of the products are regulated by US DOT or IATA.

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## 15. Regulatory Information

**US OSHA:** This MSDS complies with the requirements under 29 CFR 1910.1200. None of the products are considered hazardous under this regulation.

### Canada – WHMIS Classifications

None of the products are classified according to WHMIS classification criteria.

### California Proposition 65

None of the ingredients are listed under California Proposition 65.

**SARA 313:** None of the ingredients of these products are listed.

**CERCLA :** None of the ingredients of these products are listed

**RCRA:** None of the ingredients of these products are listed.

**For R&D consumers, products are to be used only for R&D purposes.**



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## 16. Other Information

No other data available.

### Abbreviations:

CFR	Code of Federal Regulations
CERCLA:	Comprehensive Environmental Response, Compensation, and Liability Act
DOT:	Department of Transportation
EU:	European Union
GHS:	Global Harmonization System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
OSHA:	Occupational Safety and Health Administration
NTP:	National Toxicology Program
RCRA:	Resource Conservation and Recovery Act
SARA:	Superfund Amendments and Reauthorization Act

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