



## Material Safety Data Sheet

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

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

Control Primers and Probes

---

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

The following MSDS is for Cepheid's Control final products only as used in the laboratory. The components as described in Section 3 vary primarily in the primers and probes that are used for detection purposes. If manufacturing this series of products, consult the MSDSs for the individual ingredients and reagents.

Product Name	Catalog #
CIC Control Primers and Probes	QC-DNA-CIC
SSC Control Primers and Probes	QC-DNA-SSC
F-Control Primers and Probes	QC-RNA-LOW
N-Control Primers and Probes	QC-RNA-MED
R-Control Primers and Probes	QC-RNA-HIGH
Sample Prep Control (SPC)	QC-RNA-SPC

**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

---

### 2. Hazards Identification

**Appearance:** This product contains beads, which are freeze-dried white powders and are contained in dispensers.

**Signal Word:** CAUTION for handling of all dispensers

**Hazard Overview:** **Bead components as contained in dispensers will not present a hazard under normal use conditions; if dispenser is broken or damaged and beads are spilled or released, contact may cause reversible skin and eye irritation.**

**Statement of Known**

**Hazard:** Bead components of this product would not be considered hazardous under normal conditions of use.

**EU Indicator of Danger:** Not applicable



## Material Safety Data Sheet

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

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

Control Primers and Probes

EU Risk Phrases: Not applicable

---

### 3. Composition Information on Ingredients

This product consists of dispensers containing 10-20 reagent beads with the following hazardous ingredients:

Ingredient	CAS#	EINECs / ELINCS #	% Composition	EU Risk Phrase
HEPES Acid and Salt	7365-45-9 (For Acid)	230-907-9 (For Acid)	<15	R36/37/38
Bovine Serum Albumin	9048-46-8	232-936-2	<3	R42

All other ingredients of the beads are either non-hazardous under US and EU regulations or GHS guidelines and/or at concentrations less than 1% in the mixture.

---

### 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.

---

### 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.



## Material Safety Data Sheet

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

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

Control Primers and Probes

### 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.

**Hazardous Decomposition Products:** None identified.

---

## 6. Accidental Release Measures

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).

---

## 7. Handling and Storage

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

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

---

## 8. Exposure Controls/Personal Protection

### Occupational Exposure

**Limits:** None of the ingredients contained in this product have occupational exposure limits established by OSHA, NIOSH, ACGIH or Cepheid.

**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.



## Material Safety Data Sheet

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

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

Control Primers and Probes

**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 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.

---

## 9. Physical and Chemical Properties

**Physical State:** Beads are solid components in dispensers.

**Odor:** Components are odorless.

**Vapor Pressure:** Minimal.

**Evaporation Rate:** Minimal.

**Boiling Point:** Not applicable/solid .

**Freezing/Melting Point:** Not applicable

**Solubility:** Beads are soluble in aqueous solutions

**pH:** Not applicable/solid

---

## 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.

---

## 11. Toxicological Information

**Acute Toxicity:** The dispensers containing freeze-dried powders should not present an acute toxicity hazard unless the beads are released or spilled.

**Irritation/Sensitization:** HEPES Salt and HEPES acid are considered skin and eye irritants. Bovine serum albumin, as a foreign protein is considered a potential allergen but because it is contained in the



## Material Safety Data Sheet

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

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

Control Primers and Probes

bead within the dispenser, the potential to cause an allergic reaction under normal use conditions is considered low.

**Repeated dose toxicity** – No data identified on ingredients.

**Reproductive (fertility) and Developmental (birth defects) toxicity** – No data identified. None of the ingredients are considered reproductive or developmental toxicants.

**Mutagenicity and Carcinogenicity** – No data identified on mutagenicity. None of the ingredients are listed by NTP, IARC or OSHA as carcinogens.

---

## 12. Ecological Information

**Ecotoxicity:** No data identified.

**Environmental Fate:** No data identified.

---

## 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.

---

## 14. Transport Information

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

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

---

## 15. Regulatory Information

**US OSHA:** This MSDS complies with the requirements under 29 CFR 1910.1200

No hazard labeling is required.

### Canada – WHMIS Classifications

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

### California Proposition 65

None of the ingredients are listed under California Proposition 65.



## Material Safety Data Sheet

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

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

Control Primers and Probes

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

**CERCLA:** None of the ingredients are listed.

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

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

---

## 16. Other Information

No other data available.

### Abbreviations:

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS#:	Chemical Abstract Services Number
CFR	Code of Federal Regulations
CERCLA:	Comprehensive Environmental Response, Compensation, and Liability Act
DOT:	Department of Transportation
EINECS:	European Inventory of New and Existing Chemical Substances
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
TSCA:	Toxic Substances Control Act

*Cepheid makes no warranties as to the accuracy or completeness of this information and disclaims any liability in connection with its use. Cepheid's obligations shall be only as set forth in Cepheid's standard terms and conditions of sale for this product. In no case will Cepheid be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product.*