

## **Material Safety Data Sheet**

**Customer Number Order Number** 

#### Product and Company Identification 1.

Supplier

Manufactured by EMD Biosciences, Inc.

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Catalog #

70235

In Case of **Emergency**  Call Chemtrec® (800)424-9300 (within U.S.A.)

(703)527-3887 (outside U.S.A.)

**Product name** 

BL21(DE3) Singles™ Competent Cells

### Composition and Information on Ingredients

CAS No. **Ingredient Name** Product No. EU Symbol **R-Phrases** Calcium Chloride 10043-52-4 RC0030 Χi R36

Note: See section 8 for occupational exposure limits and section 11 for LC50/LD50 information.

#### 3. Hazards Identification

**Primary Hazards and Critical** RC0030 CAUTION! MAY

BE HARMFUL IF SWALLOWED. **Effects** MAY CAUSE EYE IRRITATION.

Avoid contact with eyes. Do not ingest. Wash thoroughly after handling.

Physical/Chemical hazards Not applicable.

**Human Health Hazards** RC0030 Irritating to eyes.

**Environmental Hazards** Not applicable.

#### First Aid Measures 4.

**Inhalation** RC0030 If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion RC0030 Do NOT induce vomiting unless directed to do so by medical personnel. Never give

anything by mouth to an unconscious person. If large quantities of this material are

swallowed, call a physician immediately.

In case of contact, immediately flush skin with plenty of water. Remove **Skin Contact** RC0030

contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean

shoes before reuse. Get medical attention.

**Eye Contact** RC0030 In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. Get medical attention.

**Notes to Medical Doctor** Not available.

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#### 5. Fire-Fighting Measures

**Extinguishing Media** 

Use foam or all purpose dry chemicals to extinguish.

Fire-Fighting Procedures

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Fire/Explosion Hazards

**Hazardous Decomposition Products** 

6.

Not available

Accidental Release Measures

Not applicable.

# Personal Precautions

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).

**Environmental Precautions** and Clean-up Methods

If emergency personnel are unavailable vacuum or carefully scoop up spilled materials and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal. Minimize contact of spilled material with soils to prevent runoff to surface waterways.

Note: See section 1 for emergency contact information and section 13 for waste disposal.

#### 7. Handling and Storage

Handling RC0030 Avoid contact with eyes. Do not ingest. Wash thoroughly after handling.

Keep container tightly closed. Keep container in a cool, well-ventilated area. Storage

**Packaging Materials** Use original container.

#### **Exposure Controls and Personal Protection** 8.

**Occupational Exposure Limits** 

**Ingredient Name Occupational Exposure Limits** 

RC0030 Not available.

RC0030 No special containment is required. Local exhaust ventilation should be provided. **Engineering Controls** 

**Personal Protective Equipment** 

Respiratory System RC0030 Use an approved, properly fitted, HEPA filter cartridge respirator, or a respirator of greater

protection if there is the potential to exceed the exposure limit(s).

Skin and Body RC0030 Work uniform or laboratory coat.

RC0030 Use chemical resistant, impervious gloves. Additional body garments should be Hands

used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits). Appropriate techniques should be used to remove potentially

contaminated clothing.

RC0030 Safety glasses. Goggles, face shield, or other full-face protection if potential exists for Eyes

direct exposure to dust.

#### Physical and Chemical Properties 9.

### Kit Components

11 reaction kit

69318: 1 x 10 ul Test Plasmid

69319: 2 x 2 ml SOC Medium

70235: 1 x 11 BL21(DE3) Singles™ Competent Cells, containing Calcium Chloride (RC0030)

22 reaction kit

69318: 1 x 10 ul Test Plasmid 69319: 4 x 2 ml SOC Medium

70235: 1 x 22 BL21(DE3) Singles™ Competent Cells, containing Calcium Chloride (RC0030)

#### **Flash Point**

Not available.

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## 10. Stability and Reactivity

Stability: RC0030The product is stable.Conditions and Materials to: RC0030Reactive with acids.

Avoid

Hazardous Decomposition : Not available.

**Products** 

### 11. Toxicological Information

**Toxicity Data** 

 Ingredient Name
 Test
 Result
 Route
 Species

 RC0030
 LD50
 1000 mg/kg
 Oral
 Rat

 LD50
 1940 mg/kg
 Oral
 Mouse

Routes of Entry : Eye contact.

**Acute Effects** 

Inhalation : Not available.

Ingestion : RC0030 Harmful if swallowed.

Skin Contact : Not available.

Eye Contact: RC0030 Moderately irritating to the eyes.

**Chronic Effects** 

Adverse Effects

Target Organs

Not available.

Carcinogenic Effects

Not available.

Not available.

Not available.

Not available.

Not available.

Teratogenic Effects

Not available.

Reproductive Effects : Not available.

Other Information : RC0030 Repeated or prolonged exposure is not known to aggravate medical condition.

## 12. Ecological Information

**Ecotoxicity Data** 

 Ingredient Name
 Species
 Period
 Result

 RC0030
 Not available.
 Not available.
 Not available.

### 13. Disposal Consideration

Waste Handling and Disposal : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### 14. Transport Information

<u>Air</u>

IATA-DGR Class : Not controlled under IATA.

**Packing Group** 

## 15. Regulatory Information

EU Regulations

Hazard Symbol(s) : Xi

Risk Phrases : R36- Irritating to eyes.

Safety Phrases : S24- Avoid contact with skin.

**US Regulations** 

**Haz-Com Standard** : Not controlled under the HCS (United States).

EPA : Not available.

State : Not available.

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**Canadian Regulations** 

WHMIS : Not controlled under WHMIS (Canada).

CEPA : No products were found.

Provincial : No products were found.

### 16. Other Information

Validated by jcw on 10/6/2003.

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**Notice to Reader** 

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