

## Section 1 - Product and Company Information

**Product Name:** HEK-Blue™-4 cells

**Cat. Code:** hb4-cells

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**Company identification:**

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## Section 2 - Composition/Information on Ingredients

HEK-Blue™-4 cells are composed of a mixture of ingredients, disclosed is the hazardous component present in excess of 1%.

| Ingredient         | CAS No. | EC No.    | Classification     | Concentration |
|--------------------|---------|-----------|--------------------|---------------|
| Dimethyl sulfoxide | 67-68-5 | 200-664-3 | R21, R22, R36, R38 | ≥5% -≤20%     |

## Section 3 – Hazards Identification

**Warning:** The usual precautions taken when handling chemicals or biologicals should be observed.

**Emergency Overview:** OSHA Hazards: Combustible Liquid, Target Organ Effect. Target Organs: Eyes, Skin. Harmful if swallowed.

**HMIS Classification:** Health Hazard **1**, Chronic Health Hazard \*, Flammability **2**, Physical hazards **0**

**NFPA Rating:** Health Hazard **0**, Fire **2**, Reactivity Hazard **0**

### Potential Health Effects

- **Eye contact:** Causes eye irritation.
- **Skin contact:** Causes skin irritation.
- **Skin absorption:** Harmful if absorbed through the skin.
- **Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.
- **Ingestion:** Harmful if swallowed.

## Section 4 – First Aid Measures

**General advice:** Consult a physician. Show this material safety data sheet to the doctor in attendance.

**After skin contact:** Immediately wash skin with soap and plenty of water. Consult a physician.

**After swallowing:** Never give anything by mouth to an unconscious person. Rinse mouth with water provided person is conscious. Consult a physician.

**After inhalation:** Remove to fresh air. If not breathing give artificial respiration. Consult a physician.

**After eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

## Section 5 – Fire Fighting Measures

**Extinguishing Media:** Water spray, carbon dioxide, dry chemical powder or appropriate foam.

**Special Firefighting Procedures:** N/A

**Unusual Fire and Explosions Hazard (s):** N/A

**Flash point:** N/A

**Flammability:** N/A

**Auto-ignition Temp:** N/A

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## **Section 6 – Accidental Release Measures**

**Personal precautions:** Wear protective equipment. Keep unprotected persons away. Avoid dust formation.

**Method for Cleaning Up:** Absorb on sand or vermiculite and place in closed containers for disposal. Dispose contaminated material as waste according to section 13. Ventilate area and wash spill site after material clean-up is complete.

## **Section 7– Handling and Storage**

**Handling:** Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

**User Exposure:** Avoid Inhalation. Use personal protective equipment (i.e. impermeable gloves, lab coat or apron).

**Storage:** Keep tightly closed as product is hygroscopic. Store in liquid nitrogen.

## **Section 8 – Exposure Controls / PPE**

**Engineering Measures:** Ensure adequate ventilation, especially in confined areas.

### **Personal Protective Equipment**

**Hand:** Protective gloves to prevent skin contact. **Eye:** Chemical safety goggles

**General Hygiene Measures:** Wash hands thoroughly after handling.

## **Section 9 – Physical / Chemical Properties**

**Appearance:** N/A

**Physical State:** N/A

**Solubility in Water:** N/A

## **Section 10 – Stability and Reactivity**

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Materials to avoid:** Strong oxidizing agents

**Hazardous Decomposition Products:** Decomposition products are not hazardous.

## **Section 11 – Toxicological Information**

### **Acute toxicity:**

LD50 Oral: 14,500 mg/kg rat

LD50 Dermal: N/A

LD50 Inhalation: N/A

**Primary irritant effect:** Eyes, skin

**Sensitization:** N/A

**Target Organ:** Eyes, skin

**Additional toxicological information:** N/A

## **Section 12 – Ecological Information**

**Ecotoxicity:** Data not yet available.

**Mobility:** Data not yet available.

**Biodegradation:** Data not yet available.

**Bioaccumulation:** Data not yet available.

### **Section 13 – Disposal Considerations**

**Product:** Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.

**Contaminated Packaging:** Dispose of as unused product.

### **Section 14 – Transport Information**

**DOT (US):** UN-Number: 1993 Class: CBL Packing group: III Proper shipping name: Combustible liquid, n.o.s. (Dimethyl sulfoxide) Marine pollutant: No Poison Inhalation Hazard: No

**IATA:** Not dangerous goods.

**IMDG:** Not dangerous goods.

### **Section 15 – Regulatory Information**

**OSHA HAZARDS (US):** Combustible Liquid, Target Organ Effect. Target Organs: Eyes, Skin. Harmful if swallowed.

**DSL Status:** This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Dimethyl sulfoxide CAS no.: 67-68-5

**SARA 302 Component:** None of the ingredients are listed.

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

**SARA 311/312 Hazards:** Fire Hazard. Chronic Health Hazard.

#### **U.S. State Regulations**

| <b>Chemical Name</b> | <b>Massachusetts RTK</b> | <b>New Jersey RTK</b> | <b>Pennsylvania RTK</b> |
|----------------------|--------------------------|-----------------------|-------------------------|
| Dimethyl sulfoxide   | -                        | X                     | X                       |

**California Proposition 65:** This product does not contain chemicals listed under Proposition 65.

#### **Labeling, risk and safety phrases according to EU directives:**

**R21:** Harmful in contact with skin

**R22:** Harmful if swallowed

**R36:** Irritating to eyes

**R38:** Irritating to skin

**Caution:** Substance not fully tested.

### **Section 16 – Other Information**

**Disclaimer:** All InvivoGen products are supplied for research and laboratory use only. Not for drug, household or other uses.

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