

# SAFETY DATA SHEET

## Section 1 – Identification

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Product Name	LEGENDScreen™ Mouse Cell Screening (PE) Kit
Catalog No.	700003
Recommended Use	Research use only.
Company	BioLegend
Street Address	9727 Pacific Heights Blvd
City, State, Zip, Country	San Diego, CA 92121
Phone	+1-858-455-9588
Emergency Number	In case of a chemical emergency, spill, fire, or exposure, +1-858-455-9588 (7:00AM – 5:00PM PDT, M-F)

## Section 2 – Hazards Identification

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### 2.1 Hazard Classification

Skin Sensitization (Category 1)  
Serious Eye Damage (Category 1)  
Carcinogenicity (Category 2)

### 2.2 GHS Label elements, including precautionary statements Pictogram



**Signal Word** Danger

### Hazard Statement

H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H351 Suspected of causing cancer.

### Precautionary Statement (Prevention)

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 Wash thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P272 Contaminated work clothing should not be allowed out of the workplace.

**Precautionary Statements (Response)**

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352

P310

IF ON SKIN: Wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.

**Precautionary Statements (Storage)**

P405

Store locked up.

**Precautionary Statements (Disposal)**

P501

Dispose of contents/container to hazardous or special waste collection point.

**Section 3 – Composition/Information on Ingredients**


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## 1. Fixation Buffer

Component:	CAS	EINECS	Concentration
Paraformaldehyde	30525-89-4	unlisted	4%

## 2. Cell Staining Buffer

Component:	CAS	EINECS	Concentration
Sodium Azide	26628-22-8	247-852-1	0.09% (w/v)

## 3. Human Cell Screening Plates (containing antibodies)

Component:	CAS	EINECS	Concentration
Sodium Azide	26628-22-8	247-852-1	0.09% (w/v)

## 4. Plate Sealers

Component:	CAS	EINECS	Concentration
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**Section 4 – First Aid Measures**


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**4.1 Description of first aid measures**
**General Advice**

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

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

**After skin contact:** Wash with soap and copious amounts of water. Consult a physician.

**After eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the eye lids to ensure thorough rinsing. Consult a physician.

**After swallowing:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Symptoms:** Contact may cause skin irritation. Contact may cause eye irritation.

## Section 5 – Fire-Fighting Measures

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**5.1 Suitable extinguishing agents:** Extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**5.2 Special hazards caused by the material, its products of combustion or resulting gases:** NFPA Class II Combustible Liquid. Dangerous decomposition products include poisonous gases or vapors; formaldehyde. Vapors can form explosive mixture with air. They may also travel to source of ignition. Containers exposed to fire/heat can explode due to pressure. Vapors are sensitive to static electrical discharge.

**5.3 Special protective equipment and precautions for fire-fighters:** Wear protective clothing and self-contained breathing apparatus for fire response. Remove containers out of range of fire, if can be done without risk. If not, use water spray to keep containers cool. Any contaminated equipment should be rinsed thoroughly with water if exposed.

**5.4 Hazardous combustion materials:** No data available.

## Section 6 – Accidental Release Measures

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**6.1 Personal precautions, protective equipment, and emergency procedures:** Small spills can often be handled by personnel with chemical training. For large spills, contact emergency personnel immediately. Evacuate and ventilate area. Use protective clothing, gloves and equipment. Avoid formation of dust/vapor. Avoid inhalation or other contact. Keep unnecessary persons away.

**6.2 Environment precautions:** Prevent entry into waterways, drains, soil, and sewers.

**6.3 Measures for cleaning/collecting:** Absorb material with appropriate absorbent material and dispose in appropriate hazardous waste container.

### 6.4 Additional information:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## Section 7 – Handling and Storage

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**7.1 Precautions for safe handling:** Do not get on skin, in eyes, on clothing. Do not breathe dust/vapor. Wash thoroughly after handling. Ensure area is adequately ventilated. Toxicogenic and mutagenic. See section 8 for more information.

**7.2 Conditions for safe storage, including any incompatibilities:** Keep container tightly-sealed. Do not store with strong oxidizing agents, bases, acids, or any water reactive materials.

## Section 8 – Exposure controls/personal protection

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### 8.1 Exposure Limits

#### Formaldehyde

OSHA PEL

0.75 ppm over an 8-hour shift and 2 ppm during any 15-minute period.

NIOSH	REL is 0.016 ppm over an 8-hour shift and 2 ppm during any 15-minute period.
ACGIH	TLV is 0.3 ppm.
IARC	Group 1 carcinogen.
NTP	Suspected carcinogen.
<b>Sodium Azide</b>	
ACGIH	TLV is 0.29 mg/m <sup>3</sup> Ceiling
NIOSH	REL is 0.3 mg/m <sup>3</sup> Ceiling

## 8.2 Exposure Controls

### Engineering Controls

Use only with adequate (local exhaust) ventilation.

### Personal protective equipment

#### General protective and hygienic measures

Keep away from foodstuffs, beverages, and feed.

Wash hands, face, and exposed forearms/areas after handling.

Wash contaminated clothing before reusing.

Ensure eyewash stations and safety showers are in close proximity to workstation.

**Breathing equipment:** May use self-contained breathing apparatus; NIOSH/MSHA-approved respirator.

**Protection of hands:** Chemical resistant gloves.

**Eye protection:** Face shield (recommended) and safety goggles.

**Body protection:** Protective work clothing.

## Section 9 – Physical and Chemical Properties

Appearance	Liquid, Colorless, clear
Odor	Pungent, fruity
Odor Threshold	No Data Available
pH	No Data Available
Melting point/freezing point	No Data Available
Boiling point	No Data Available
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability	No Data Available
Upper explosion limit	No Data Available
Lower explosion limit	No Data Available
Vapor pressure	No Data Available
Vapor density	No Data Available
Relative density	No Data Available
Solubility	Soluble

Partition coefficient	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive Properties	No Data Available
Oxidizing Properties	No Data Available

## Section 10 – Stability and Reactivity

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### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Avoid excessive heat.

### 10.5 Incompatible materials

Strong oxidizing agents, bases, acids, or any water reactive materials.

### 10.6 Hazardous decomposition products

Dangerous decomposition products include poisonous gases or vapors; formaldehyde.

## Section 11 – Toxicological Information

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Routes of Entry	Ingestion, inhalation, skin and eye contact.
Acute Toxicity	Oral LD50 (Paraformaldehyde) 800 mg/kg (rat) Oral LD50 (Sodium Azide) 27 mg/kg (rat)
Skin Corrosion/Irritation	Irritant
Serious eye damage/irritation	Irritant
Respiratory or skin sensitization	Irritant
Germ cell mutagenicity	Mutagenic effects possible from formaldehyde, the decomposition product of formaldehyde.
Carcinogenicity	Paraformaldehyde is a suspected carcinogen.
Reproductive toxicity	Reproductive effects possible from paraformaldehyde, the decomposition products of paraformaldehyde.
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available

### Potential health effects:

Inhalation: May be toxic in inhaled. Causes respiratory tract irritation.  
 Ingestion: Harmful if swallowed.



Skin: Harmful if absorbed through skin. Causes skin irritation  
Eyes: Causes eye irritation.

### Signs and Symptoms of Exposure

May cause irreversible eye damage.

## Section 12 – Ecological Information

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Environmental Toxicity	In large volumes, may be harmful to terrestrial life.
Aquatic Toxicity	In large volumes, may be harmful to aquatic life.
Persistence and degradability	Formaldehyde can transfer to rain and water due to solubility. Biodegrades significantly in water within days.
Bioaccumulative potential	No Data Available
Mobility in soil	Water soluble
Results of PBT and vPvT assessment	No data available

## Section 13 – Disposal Considerations

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Minimize waste as much as possible.  
Not a RCRA hazardous waste.  
Disposal must be made according to state and federal regulations.

### Contaminated packaging (recommended)

Disposal must be made according to state and federal regulations.

### Cleaning agent (recommended)

If product is spilled or leaked, collect on absorbent.

## Section 14 – Transport Information

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### DOT (Ground)

Not regulated

### IMDG

Not regulated

### IATA

Not regulated

### ADR

Not regulated

### ADN

Not regulated

### RID

Not regulated

## Section 15 – Regulatory Information

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SARA Section 335 (extremely hazardous substances): Sodium azide and formaldehyde, the decomposition product of paraformaldehyde, is subject to reporting requirements.

SARA Section 313 (specific toxic chemical listing): Sodium azide and formaldehyde, the decomposition product of paraformaldehyde, is subject to reporting requirements. Acute health hazards.

TSCA (Toxic Substances Control Act): Sodium azide and formaldehyde, the decomposition product of paraformaldehyde, is subject to reporting requirements. Acute health hazards.

### **Paraformaldehyde**

Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

### **Sodium Azide**

CERCLA Reportable Quantity: 1000 lbs

### **Formaldehyde**

CERCLA Reportable Quantity :100 lbs

California Proposition 65: Formaldehyde is a known carcinogen.

## Section 16 – Other information

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Revision Date: July 28th, 2014

Only trained personnel should use this material.

To the best of our knowledge, the information contained herein is accurate. However, neither BioLegend, nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Department issuing MSDS: Safety & Environment Department

Contact: Technical Service Representative