

**SIGMA-ALDRICH****Material Safety Data Sheet**

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 Version 1.30

**Section 1 - Product and Company Information**

Product Name	PKH67 Green Fluorescent Cell Linker Mini Kit, For general cell membrane labelling			
Product Number	MINI67			
Brand	Sigma Chemical			
Company	Sigma-Aldrich			
Street Address	3050 Spruce Street			
City, State, Zip, Country	SAINT LOUIS, MO 63103 US			
Technical Phone:	800-325-5832	Emergency Phone:	314-776-6555	
Fax:	800-325-5052			

**Section 2 - Composition/Information on Ingredient**

Substance Name	CAS #	SARA 313	EC no	Annex I Index Number
PKH2 LINKER FOR GREEN FLUORESCENT CELL	None		No	
Ingredient Name ETHYL ALCOHOL, ABSOLUTE	CAS # 64-17-5	Percent >= 95.000 %		SARA 313

Formula  
Synonyms

**Section 3 - Hazards Identification****Emergency Overview**

Flammable (USA) Highly Flammable (EU). Irritant.  
 Irritating to eyes, respiratory system and skin.  
 Target organ(s): Liver. Nerves.

**HMS Rating**

Health: 2\* Flammability: 3 Reactivity: 0

**NFPA Rating**

Health: 2 Flammability: 3 Reactivity: 0

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

**Section 4 - First Aid Measures****Oral Exposure**

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Inhalation Exposure**

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Dermal Exposure**

In case of contact, immediately wash skin with soap and copious amounts of water.

**Eye Exposure**

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

**Section 5 - Fire Fighting Measures**

**Flammable Hazards:** Yes

**Explosion Hazards**

Vapor may travel considerable distance to source of ignition and flash back.  
 Container explosion may occur under fire conditions.

**Flash Point:** 59 °F 15 °C

**Autoignition Temp:** N/A

**Flammability:** Yes

**Extinguishing Media****Suitable**

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

**Firefighting****Protective Equipment**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Specific Hazard(s)**

Flammable liquid. Emits toxic fumes under fire conditions.

**Section 6 - Accidental Release Measures****Procedure to be Followed in Case of Leak or Spill**

Evacuate area. Shut off all sources of ignition.

**Procedure(s) of Personal Precaution(s)**

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

**Methods for Cleaning Up**

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

**Section 7 - Handling and Storage****Handling****User Exposure**

Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Sigma Chemical - MINI67

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**Storage  
Suitable**

Keep container closed. Keep away from heat, sparks, and open flame.

**Section 8 - Exposure Controls / PPE****Engineering Controls**

Safety shower and eye bath. Use nonsparking tools. Mechanical exhaust required.

**Personal Protective Equipment****Respiratory**

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

**Hand**

Compatible chemical-resistant gloves.

**Eye**

Chemical safety goggles.

**General Hygiene Measures**

Wash thoroughly after handling. Wash contaminated clothing before reuse.

**Section 9 - Physical/Chemical Properties****Appearance****Physical State**

Liquid

**Molecular Weight:** N/A

**pH** N/A

**BP/BP Range** 78 °C

**MP/MP Range** N/A

**Freezing Point** N/A

**Vapor Pressure** N/A

**Vapor Density** N/A

**Saturated Vapor Conc.** N/A

**SG/Density** N/A

**Bulk Density** N/A

**Odor Threshold** N/A

**Volatile%** N/A

**VOC Content** N/A

**Water Content** N/A

**Solvent Content** N/A

**Evaporation Rate** N/A

**Viscosity** N/A

**Partition Coefficient** N/A

**Decomposition Temp.** N/A

**Flash Point °F** 59 °F

**Flash Point °C** 15 °C

Method: closed cup  
Method: closed cup

**Explosion Limits** N/A

**Flammability** N/A

**Autoignition Temp** N/A

**Solubility** N/A

**N/A = not available**

**Section 10 - Stability and Reactivity****Stability**

**Stable**

Stable.

**Materials to Avoid**

Oxidizing agents, Peroxides, Acids, Acid chlorides, Acid anhydrides, Alkali metals, Ammonia.

**Hazardous Decomposition Products****Hazardous Decomposition Products**

Carbon monoxide, Carbon dioxide.

**Hazardous Polymerization****Hazardous Polymerization**

Will not occur.

**Section 11 - Toxicological Information****Route of Exposure****Skin Contact**

Causes skin irritation.

**Skin Absorption**

May be harmful if absorbed through the skin.

**Eye Contact**

Causes eye irritation.

**Inhalation**

May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

**Ingestion**

May be harmful if swallowed.

**Target Organ(s) or System(s)**

Nerves. Liver. Heart.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**RTECS Number:** N/A

**Chronic Exposure - Carcinogen**

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

**Section 12 - Ecological Information**

No data available.

**Section 13 - Disposal Considerations****Appropriate Method of Disposal of Substance or Preparation**

Contact a licensed professional waste disposal service to dispose of this material.

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

Observe all federal, state, and local environmental regulations.

## Section 14 - Transport Information

### DOT

**Proper Shipping Name:** Ethanol [or] Ethyl alcohol [or] Ethanol solutions [or] Ethyl alcohol solutions  
**UN#:** 1170  
**Class:** 3  
**Packing Group:** Packing Group II  
**Hazard Label:** Flammable liquid  
**PIH:** Not PIH

### IATA

**Proper Shipping Name:** Ethanol solution  
**IATA UN Number:** 1170  
**Hazard Class:** 3  
**Packing Group:** II

## Section 15 - Regulatory Information

### EU Additional Classification

**Symbol of Danger:** F

#### Indication of Danger

Highly Flammable.

**Risk Statements** R: 11

Highly flammable.

**Safety Statements** S: 7 16

Keep container tightly closed. Keep away from sources of ignition - no smoking.

### US Classification and Label Text

#### Indication of Danger

Flammable (USA) Highly Flammable (EU). Irritant.

#### Risk Statements

Irritating to eyes, respiratory system and skin.

#### Safety Statements

Keep container tightly closed. Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

#### US Statements

Target organ(s): Liver. Nerves.

### United States Regulatory Information

SARA Listed: No

### Canada Regulatory Information

#### WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

## Section 16 - Other Information

### Disclaimer

For R&D use only. Not for drug, household or other uses.

### Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2006 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

