

## Safety Data Sheet

### Section 1: Identification

#### 1.1. Product Identifier

**Product Name:** IG® C41(DE3)pLysS Electrocompetent Cells

**Catalog Number:** 1245, 1245-12, 1245-48

#### 1.2. Details of the Supplier of the Safety Data Sheet Supplier

Intact Genomics, Inc.

**Address:** 11840 Westline Industrial Drive, Suite  
120 St. Louis, MO 63146, USA

**Telephone:** 314-942-3655, 1-855-835-7172

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**Website:** [www.intactgenomics.com](http://www.intactgenomics.com)



### Section 2: Hazards Identification

#### 2.1. GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### 2.2. GHS Label Elements

Not Applicable

#### 2.3. GHS Pictograms

Not Applicable

#### 2.4. HMIS Label

Health	0
Flammability	0
Reactivity	0

#### 2.5. Other hazards

None known.

### Section 3: Composition/Information on Ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

The product is made up of a mixture of hazardous and non-hazardous components.

### 3.3. Components

Chemical Name	Cas No.
Glycerol	56-81-5

Additional information: For the details of the listed risks refer to section 11.

The product contains no substances that are considered hazardous to health at their given concentration. The exact concentration percentages are withheld as an Intact Genomics trade secret. However, we recommend handling all chemicals with caution.

### Section 4: First Aid Measures

- 4.1. Skin contact** Rinse thoroughly with soap and water.
- 4.2. Eye contact** Rinse cautiously with water for several minutes. Remove contact lenses. Consult a doctor if feeling unwell.
- 4.3. Ingestion** Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.
- 4.4. Inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
- 4.5. Most important symptoms and effects, both acute and delayed**  
No information available.
- 4.6. Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically

### Section 5: Firefighting Measures

- 5.1. Suitable extinguishing media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- 5.2. Unsuitable extinguishing media** Use of water spray when fighting fire may be inefficient.
- 5.3. Specific hazards arising from the product** No information available.
- 5.4. Personal precautions** As in any fire, wear self-contained breathing apparatus and a protective suit.

### Section 6: Accidental Release Measures

- 6.1. Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Always wear recommended Personal Protective Equipment (PPE)

## **6.2. Environmental precautions**

Do not let product enter drains.

## **6.3. Methods and material for containment and cleaning up**

Soak up with inert absorbent material. Prevent further leakage or spillage. Placing in appropriate containers for disposal.

## **6.4. Reference to other sections**

See section 8 for more information.

## **Section 7: Handling and Storage**

### **7.1. Precautions for safe handling**

Use lab PPE as required. No special handling advice is necessary.

### **7.2. Conditions for safe storage, including any incompatibilities**

Tightly closed. Keep in properly labeled containers and in a dry, cool place.

### **7.3. Storage Conditions**

Recommended storage temperature: -20 °C

## **Section 8: Exposure Controls/Personal Protection**

**8.1. Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

### **8.2. Control parameters**

Components with limit values that require monitoring at the workplace:

Chemical Name	Cas No.	Value	OSHA PEL
Glycerol	56-81-5	TWA	15 mg/m <sup>3</sup> mist, total particulate 5 mg/m <sup>3</sup> mist, respirable fraction

**8.3 Engineering measures:** Ensure showers and eyewash satiations available.

**8.4 Personal Protective Equipment:** Requirements for PPE are dependent on the risk assessment completed by the user's institution and specific laboratory in which material is to be used.

Appropriate PPE includes Safety glasses with side shields (or goggles), lightweight protective clothing, impervious gloves, use in well-ventilated areas, and handling with caution.

## **Section 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

**Physical State:** liquid

**Color:** Colorless

**Odor:** Odorless

**Odor Threshold:** No data available:

**pH:** No data available

**Melting point/freezing point:** No data available

**Initial boiling point and boiling range:** No data available

**Flash point:** No data available

**Evaporation rate:** No data available

**Flammability (solid, gas):** No data available

**Upper/lower flammability or explosive limits:** No data available

**Vapor pressure:** No data available

**Vapor density:** No data available

**Relative density:** No data available

**Water solubility:** Soluble

**Partition coefficient:** No data available

**Autoignition temperature:** Not applicable

**Decomposition temperature:** No data available

**Viscosity:** No data available

**Explosive properties:** Not classified as explosive

**Oxidizing properties:** none

## **9.2. Other Safety Information**

No data available.

## **Section 10: Stability and Reactivity**

**10.1. Reactivity** No data available.

**10.2. Chemical Stability** Stable under normal conditions.

**10.3. Possibility of hazardous reactions** Hazardous reaction has not been reported.

**10.4. Conditions to avoid** None under normal processing.

**10.5. Incompatible Materials** None known based on information supplied.

**10.6. Hazardous decomposition products** None under normal conditions.

## Section 11: Toxicological Information

### 11.1. Information on likely routes of exposure

**Inhalation:** No sufficient data available.

**Eye Contact:** May cause eye irritation.

**Skin Contact:** Specific test data for the substance or mixture is not available.

**Ingestion:** Specific test data for the substance or mixture is not available.

### 11.2. Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms:** No information available.

### 11.3. Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Chemical Name	Oral LD50	Dermal LD50	Inhalation (Dust/Mist) LC50
Glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	>2.75 mg/L(Rat), 4 hours

### 11.4. Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation:** No information available.

**Serious eye damage/eye irritation:** No information available.

**Respiratory or skin sensitization:** No information available.

**Germ cell mutagenicity:** No information available.

**Carcinogenicity:** No information available.

**Reproductive toxicity:** No information available.

**STOT - single exposure:** No information available.

**STOT - repeated exposure:** No information available.

**Aspiration hazard:** No information available.

### 11.5. Information on other hazards

**Endocrine disrupting properties** No information available.

**Other adverse effects** No information available.

## Section 12: Ecological information

### 12.1. Ecotoxicity

**Toxicity to fish:** No data available

**Toxicity to algae/aquatic plants:** No data available

**Toxicity to microorganisms:** No data available

**12.2. Biodegradation:** Inherently biodegradable.

**12.3. Bioaccumulative Potential:** Material does not bioaccumulate.

**12.4. Mobility in soil:** No data available

**12.5. Results of PBT and vPvB assessment:** No data available

**12.5. Endocrine disrupting properties:** No data available

**12.6. Other adverse effects:** No data available

### Section 13: Disposal considerations

**13.1. Waste from residues/unused products**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**13.2. Contaminated packaging**

Do not reuse empty containers.

### Section 14: Transport information

**14.1. Regulations from IATA / ADR / DOT-US / IMDG:** Not regulated in transport

**14.2. Transport hazard class(es):** Not Applicable

**14.3. UN number or ID number:** Not Applicable

**14.4. UN proper shipping name:** Not Applicable

**14.5. Packing group:** Not Applicable

**14.6. Marine pollutant:** No

**14.7. Environmental hazards:** Not Applicable

### Section 15: Regulation Information

**15.1. US Federal Regulations:**

**SARA 313:** Product not regulated by SARA

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61):** This product does not contain HAP's.

**CWA:** This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act.

**WHMIS Hazard Class:** Non-controlled

**15.2. US State Regulations**

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

**15.3. TSCA and International Inventories**

Contact supplier for inventory compliance status

### Section 16: Other Information

**Prepared By:** Intact Genomics Environmental, Health and Safety Team

**Revision Number:** 0

**Reason for revision:** N/A

**Revision Date:** N/A

**References and sources used:**

NIOSH (National Institute for Occupational Safety and Health) - <https://www.cdc.gov/niosh/index.html>

World Health Organization - <https://www.who.int/>

National Library of Medicine - <https://pubchem.ncbi.nlm.nih.gov/>

eChemPortal - <http://www.echemportal.org/>

ChemADVISOR® Regulatory Database - <https://www.ul.com/software/ultrus/chemical-regulatory-database>

National Toxicology Program (NTP) - <https://ntp.niehs.nih.gov/>

Agency for Toxic Substances and Disease Registry (ATSDR) - <https://www.atsdr.cdc.gov/>

EPA-U.S. Environmental Protection Agency ChemView Database - <https://chemview.epa.gov/chemview/>

European Chemicals Agency (ECHA) - <http://echa.europa.eu/>

**Abbreviations and acronyms**

**ACGIH** - American Conference of Governmental Industrial Hygienists

**AICS** - Australian Inventory of Chemical Substances

**AIHA** - American Industrial Hygiene Association

**CEPA** - Canadian Environmental Protection Act

**DOT** - Department of Transportation

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**EPA** - Environmental Protection Agency

**HMIS** - Department of Defense Hazardous Materials Information System

**IARC** - International Agency for Research on Cancer

**IATA** - International Air Transport Association

**IECSC** - China Inventory of Existing Chemical Substances

**IMDG** - International Maritime Dangerous Goods

**KECL** - Korean Existing and Evaluated Chemical Substances

**NIOSH** - National Institute for Occupational Safety and Health

**NTP** - National Toxicology Program

**NZIoC** - New Zealand Inventory of Chemicals

**OELs** - Occupational Exposure Limits

**OSHA** - Occupational Safety and Health Administration of the US Department of Labor

**STEL** - Short Term Exposure Limit

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**TWA** - Time-Weighted Average

**Disclaimer:** The information provided above is correct to the best of our knowledge and is to be used only as a guide. The information is designed as a guide for safe handling, use, processing, storage, transportation, release, and disposal of this product. This information is not to be considered as a warranty or quality specification. The information also relates only to this specific product and may not be valid for any other material or method not specified used in combination with this product. As there are methods, volumes, and conditions of use that are out of the company's control, the company shall not be held liable for any damages or losses resulting from handling or from products as described herein. All materials and mixtures may present unknown hazards and should be used with caution.

\*\*\*\*\* End of Safety Data Sheet \*\*\*\*\*