

# Safety Data Sheet

## MANUFACTURER

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## General Information

**Trade Name:** PerKit™ Fab Preparation Kit  
**Part No. Covered by this SDS:** CM51407x1, CM51407x3

## Product Content

- 1) One or three columns containing 0.25 mL of cross-linked dextran gel loaded with protein A (non-hazardous) and 0.25 mL of phosphate buffer saline with 0.02% aqueous sodium azide.
- 2) One or three 0.5 mL microcentrifuge tubes containing less than 2 mg of Reagent A (Hazardous).
- 3) One or three 0.5 mL microcentrifuge tubes containing less than 1 mg of Reagent B (non-hazardous).
- 4) One microcentrifuge tube containing 0.1 mL or 0.3 mL of Buffer B (non-hazardous).
- 5) One plastic tube containing 4 mL or 12 mL of Buffer A (non-hazardous).
- 6) One plastic tube containing 4 mL or 20 mL of phosphate buffer saline (non-hazardous).
- 7) A plastic bag containing centrifuge tubes and filter devices (non-hazardous).

## Handling and Storage for Hazardous Chemicals

Handling of Reagent A: See Attached Supplement for Reagent A.

## Other Information

Sodium azide present in the mixture at less than 1% is not considered hazardous as defined in 29 CFR 1910.1200 (OSHA Hazard Communication Standard). Therefore, a Material Safety Data Sheet is not required. We recommend treating all chemicals with caution.

## Transportation

None of the components in the kit are regulated for transportation.

**Supplemental information starts from next page.**

## Reagent A

### SECTION 1. Identification of the substance/mixtures and of the company/undertaking

#### 1.1 Product identifiers

Product Name: Reagent A

Product No.: CM12106

#### 1.2 Detail of the supplier of the safety data sheet

Company: CellMosaic, Inc. 10A Roessler Road, Woburn, MA 01801, Phone: +1 781-463-0002

### SECTION 2. Hazards Identification

#### 2.1. Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

No Pictogram

Short-term (acute) aquatic hazard (Category 3), H402

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

**Signal Word:** none.

**Hazard Statement(s):**

H304 – Harmful to aquatic life.

**Precautionary Statement(s):**

P273 – Avoid release to the environment.

P501 – Dispose of contents/ container to an approved waste disposal plant.

### SECTION 3. Composition and Information on Ingredients

Ingredient	CAS No.	Percent	Hazardous
The specific chemical identity of the organic solvent is being held as a trade secret (Proprietary component)	N/A	99-100%	Yes

### SECTION 4. First Aid Measures

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Ingestion:** If swallowed, DO NOT INDUCE VOMITING without medical advice. Rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Skin Contact:** Wash skin with soap or mild detergent and water. Get medical attention.

**Eye Contact:** Check for and remove contact lenses. Flush eyes with water as a precaution.

**Notes to Physician:** Treat symptomatically and supportively.

### SECTION 5. Fire Fighting Measures

#### 5.1. Flammability

Products of Combustion: May decompose into irritating and highly toxic gases under fire conditions (nitrogen oxides, carbon monoxide, carbon dioxide, sulfur oxide).

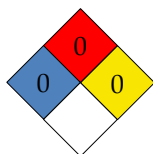
Specific Fire Hazards: As in any fire, always wear self-contained breathing apparatus in pressure-demand (MSA/NIOSH approved or equivalent), and full protective gear. Use water spray to keep fire exposed containers cool. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.

Specific Explosion Hazards: No information available.

Fire Fighting Media: Use dry chemicals, carbon dioxide, water spray, or appropriate foam.

## 5.2. NFPA

Health Rating: 0  
 Flammability Rating: 0  
 Instability: 0  
 Physical hazards N/A



## SECTION 6. Accidental Release Measures

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Do not let product enter drains. Always use proper personal protective equipment as described in section 8.

## SECTION 7. Handling and Storage

**Precautions:** Always use proper personal protective equipment as described in section 8. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Remove contaminated clothing and wash before reuse.

**Storage:** Store away from ignition sources. Keep it in a tightly closed container. Store at -20 °C, dry, well-ventilated area away from incompatible substances.

## SECTION 8. Exposure Controls/Personal Protection

**Engineering Controls:** Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Contains no substances with occupational exposure limit values.

**Personal Protective Equipment:** Wear protective chemical goggles or other appropriate eye protection. Use nitrile gloves and protective clothing to prevent skin exposure. A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever possible. Always use a NIOSH or European Standard EN 149 approved respirators when necessary.

**Exposure Limits:** None established.

## SECTION 9. Physical and Chemical Properties

**Physical State and Appearance:** white solid.

**Odor:** No information available.

**Solubility:** Soluble in water.

**Specific Gravity:** No information available.

**pH:** Slightly acidic 4-6 (100 g/L H<sub>2</sub>O)

**Boiling Point:** No information available.

**Freezing/Melting Point:** No information available.

**Flash Point:** No information available.

**Vapor Density (Air=1):** N/A

**Vapor Pressure:** N/A

**Evaporation Rate (Butyl acetate =1):** No information available.

**Partition coefficient; n-octanol/water:** No information available.

**Autoignition Temperature:** No information available.

**Decomposition Temperature:** No information available.

**Viscosity:** N/A

**Molecular Formula:** N/A

**Molecular Weight:** N/A

## SECTION 10. Stability and Reactivity

**Stability:** Stable at room temperature in closed container under normal handling and storage conditions.

**Hazardous Decomposition Products:** Nitrogen oxides, Carbon monoxide, carbon dioxide, Sulphur oxides.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities with Various Substances:** Metals.

**Conditions to Avoid:** No information available.

### **SECTION 11. Toxicological Information**

**Routes of Entry:** Inhalation, skin absorption, skin contact.

**Acute Toxicity:**

LD50 Oral -Rat - >2000 mg/kg

Remarks: (HSDB)

Inhalation: No information available

Dermal: No information available.

**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:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**Reproductive Effects:** No information available.

**Specific Target Organ Toxicity – Single Exposure:** No information available.

**Specific Target Organ Toxicity – Repeated Exposure:** No information available.

**Aspiration Hazard:** No information available.

**Other Studies:** No information available.

### **SECTION 12. Ecological Information**

**Environmental Fate:** Readily biodegradable.

**Physical:** No information available.

**Environmental Toxicity:**

Toxicity to fish static test LC50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h (OECD Test Guideline 203).

### **SECTION 13. Disposal Considerations**

Waste material must be disposed of in accordance with the national and local regulations.

### **SECTION 14. Transport Information**

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

### **SECTION 15. Regulatory Information**

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III Section 302

**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** No SARA Hazards.

**Clean Water Act:**

This product does not contain any Hazardous Substances listed under U.S. CleanWater Act, Section 311, Table 116.4A.  
This product does not contain any Hazardous Chemicals listed under U.S. CleanWater Act, Section 311, Table 117.3.  
DEA List I: Not listed.

DEA List II: Not listed.

**US State Regulations:**

**Massachusetts Right to Know Components:** No components are subject to the Massachusetts Right to Know Act.

**California Prop 65 Components:** This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**SECTION 16. Other Information**

**References:**

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and WHMIS Controlled Products Regulation, Chemical Abstract databases, Superfund Amendments and Reauthorization Act (SARA) and other similar compound's SDS.

**Other Special Considerations:** Not available.

**Created:** May 21, 2024

**Last Updated:** NA

**Revision Information:** Version 1

**Product Use:** Laboratory Reagent

**Disclaimer:**

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**Prepared by:** CellMosaic, Inc. Health and Safety