



Safety Data Sheet

MANUFACTURER

CellMosaic, Inc.

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General Information

Trade Name: PerKit™ Alkaline Phosphatase (AP) Oligo Conjugation Kit

Part No. Covered by this SDS: CM53403, CM53403x3

Composition/Information on Ingredients

Product Content

- 1) A 1.5 mL microcentrifuge tube containing few mg of alkaline phosphatase (non-hazardous).
- 2) A 0.5 mL microcentrifuge tube containing less than 1 mg of Reagent A (non-hazardous).
- 3) A 0.5 mL microcentrifuge tube containing less than 1 mg of Reagent B (hazardous).
- 4) A tube containing 2 or 6 mL of Buffer A (non-hazardous).
- 5) A tube containing 1.5 or 5 mL of Buffer B (non-hazardous).
- 6) A bottle containing 3 or 9 mL of Buffer C (non-hazardous).
- 7) A tube containing 1.5 mL or 5 mL of Buffer D (non-hazardous).
- 8) A plastic bag containing Eppendorf tubes, centrifugal filter devices, purification column, and collection tubes (non-hazardous).

Handling and Storage for Hazardous Chemicals

Handling for **Reagent B**: See attached supplemental information.

Transportation

DOT (US): Not dangerous goods.

IATA: Not dangerous goods.

IMDG: Not dangerous goods.

Supplemental information starts from next page.

Reagent B

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

1.1 Product identifiers

Product Name: Reagent B

Product No.: CM13001

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



Skin corrosion GHS Category 1B,

Serious eye damage GHS Category 1

2.2. GHS Label elements, including precautionary statements.

Signal Word: Danger

Hazard Statement(s):

H314 – Causes severe skin burns and eye damage.

H318 – Causes serious eye damage.

Precautionary Statement(s):

P260 – Do not breathe dust.

P264 – Wash skin thoroughly after handling.

P280 – Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P363 – Wash contaminated clothing before reuse.

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 attention immediately.

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: Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally.

SECTION 5. Fire Fighting Measures

5.1. Flammability

Flash Point: Not available.

Autoignition Temperature: Not available.

Flammable Limits: Not available.

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

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: Will not explode.

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

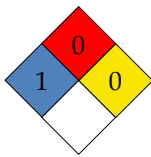
5.2. NFPA

Health Rating: 1

Flammability Rating: 0

Reactivity: 0

Specific Hazard: N/A



SECTION 6. Accidental Release Measures

Wear appropriate personal protective equipment. Isolate hazard area. Avoid inhalation of dust. Avoid substance contact. Do not flush to sewer. Sweep up and shovel into suitable, closed containers for disposal.

SECTION 7. Handling and Storage

Handling: Provide appropriate exhaust ventilation at places where dust is formed.

Storage: Long-term storage should be at -20 °C. Keep container tightly closed in a dry and well-ventilated place. Protect from moisture.

SECTION 8. Exposure Controls/Personal Protection

Engineering Controls: Facilities for storing or using the material should be equipped with an eyewash station and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment: Wear protective chemical goggles or other appropriate eye protection. Use compatible chemical-resistant gloves and protective clothing to prevent skin exposure. Always use a NIOSH or European Standard EN 149 approved respirators when necessary.

Full contact Material:

Nitrile rubber.

Minimum layer thickness: 0.11 mm Break through time: 480 min.

Work/Hygienic/Maintenance Practices: Do not take internally.

Exposure Limits: None established.

SECTION 9. Physical and Chemical Properties

Appearance: Powder

Odor: No information available.

Solubility: No information available.

Specific Gravity: No information available.

pH: No information available.

Melting Point: 177 °C.

Boiling Point: No information available.

Vapor Density (Air=1): No information available.

Vapor Pressure (mm Hg): No information available.

Evaporation Rate (BuAc=1): No information available.

SECTION 10. Stability and Reactivity

Stability: Stable under recommended storage condition.

Hazardous Decomposition Products: Hazardous decomposition products formed under Fire Conditions: (nitrogen oxides, carbon monoxide, carbon dioxide, hydrochloric acid.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizers.

Conditions to Avoid: Strong acids and strong bases.

SECTION 11. Toxicological Information

Oral LD50: Rat - 3,500 mg/kg.

Chronic Effects on Humans: No data available.

Other Toxic Effects on Humans: No data available.

Special Remarks on Toxicity to Animals: No data available.

Special Remarks on Chronic Effects on Humans: No data available.

Special Remarks on other Toxic Effects on Humans: No data available.

Carcinogenicity:

IARC: No ingredient 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 ingredient 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.

SECTION 12. Ecological Information

Environmental Fate: No information available.

Environmental Toxicity: No information available.

SECTION 13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14. Transport Information

DOT (US): Not dangerous goods: UN number: 3261 Class: 8 Packing group: II.

IATA: Not dangerous goods: UN number: 3261 Class: 8 Packing group: II.

IMDG: Not dangerous goods: UN number: 3261 Class: 8 Packing group: II.

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.

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

**SECTION 16. Other Information**

References: This document has been prepared in accordance with the MSDS 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: July 14, 2019

Last Updated: June 28, 2023

Revision Information: Version 1

Product Use: Laboratory Reagent

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Prepared by: CellMosaic, Inc. Health and Safety