



Safety Data Sheet

MANUFACTURER

CellMosaic, Inc.

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General Information

Trade Name: PerKit™ Antibody-Oligo Conjugation Kit

Part No. Covered by this SDS: CM53405.1x1, CM53405.1x3, CM53405.2x1, CM53405.2x3, CM53405.3x1, CM53405.3x3.

Product Content

- 1) One, two, three or six 1.5 mL microcentrifuge tubes containing less than 1 mg of N-(ε-Maleimidocaproyloxy) succinimide (EMCS) (non-hazardous).
- 2) One or three 0.5 mL microcentrifuge tubes containing less than 5 mg of Reagent A (non-hazardous).
- 3) One or three 0.5 mL microcentrifuge tubes containing 50µL of Reagent B solution (non-hazardous).
- 4) A 1.5 mL microcentrifuge tube containing 0.5 mL of solution A (hazardous).
- 5) A tube containing 0.5, 4 or 12 mL of Buffer A (non-hazardous).
- 6) A tube containing 4 or 12 mL of Buffer B (non-hazardous).
- 7) A tube containing 4 or 12 mL of phosphate buffer saline (non-hazardous).
- 8) Plastic bags containing centrifugal filter devices, desalting spin columns, and microcentrifuge tubes (non-hazardous).

Handling and Storage for Hazardous Chemicals

Handling for **Solution A**: See Attached Supplement.

Transportation

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

Supplemental information starts from next page.



Solution A

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

1.1. Product identifiers

Product Name: Solution A

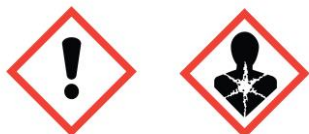
Product No.: CM02057

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



Acute toxicity, Oral (Category 4), H302

Reproductive toxicity (Category 1B), H360

2.2. GHS Label elements, including precautionary statements.

Signal Word: WARNING

Hazard Statement(s):

H302 – Harmful if swallowed.

H360 – May damage fertility or the unborn child.

Precautionary Statement(s):

P264 – Wash skin thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

P301+P312+P330 – IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

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: Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention.

Eye Contact: Check for and remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

Notes to Physician: Treat symptomatically and supportively.

SECTION 5. Fire Fighting Measures

5.1 Flammability

Products of Combustion: Will not produce harmful products (Carbon oxides, Sulfur oxides).



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 water spray, or appropriate foam.

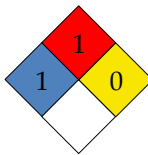
5.2 NFPA

Health Rating: 1

Flammability Rating: 1

Reactivity: 0

Specific Hazard: N/A



SECTION 6. Accidental Release Measures

Absorb spilled liquid with sorbent pads, socks, or other inert material such as vermiculite, sand, or earth. Use spark-proof tools. Provide ventilation to the affected area and remove all ignition sources. Approach the spill from upwind and pick up absorbed material and place it in a suitable container. Always use proper personal protective equipment as described in section 8.

SECTION 7. Handling and Storage

Handling: 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. Empty containers contain product residue (liquid and vapor) and can be dangerous. Use with adequate ventilation. Avoid breathing vapor or mist.

Storage: Store away from ignition sources. Keep it in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

SECTION 8. Exposure Controls/Personal Protection

Engineering Controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment:

Eye/face protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Chloroprene, Minimum layer thickness: 0.6 mm Break through time: 480 min.

Body Protection: Wear impervious protective clothing, including gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Do not let product enter drains.

SECTION 9. Physical and Chemical Properties

Physical State and Appearance: Clear, Colorless liquid.

Odor: No information available.

Solubility: Soluble in water.

Specific Gravity: No information available.

pH: No information available.



Boiling Point: >200 °C.

Freezing/Melting Point: No information available.

Flash Point: >100 °C.

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.

Relative density: 1–1.5 g/cm³ at 25 °C.

Molecular Formula: N/A.

Molecular Weight: <500 Da.

SECTION 10. Stability and Reactivity

Stability: Stable under recommended storage conditions.

Hazardous Decomposition Products: carbon monoxide, carbon dioxide, sulfur oxides.

Hazardous Polymerization: Will not occur.

Incompatibilities with Various Substances: Strong oxidizing agents.

Conditions to Avoid: No data available.

SECTION 11. Toxicological Information

Routes of Entry: Ingestion, skin absorption, skin contact.

Acute Exposure Hazards:

INGESTION HAZARD: Ingestion may cause gastrointestinal irritation with nausea, vomiting, and diarrhea.

SKIN CONTACT HAZARD: May cause skin irritation. May be harmful if absorbed through the skin. Not expected to cause an allergic reaction. Because of the high permeability rate in human skin, prolonged contact should be avoided.

EYE CONTACT HAZARD: May cause eye irritation. May cause temporary corneal clouding.

Inhalation: No data available.

Animal Toxicity:

Oral, mouse: LD50 >1500 mg/kg.

Dermal, rat: LD50 >2000 mg/kg.

Carcinogenicity: Not listed as a carcinogen by NTP, IARC, OSHA.

Epidemiology: No information available.

Reproductive Effects: Possible effects observed.

Mutagenicity: Possible effects observed.

Neurotoxicity: No information available.

Other Studies: No information available.

Additional Information: RTECS not available.

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

SECTION 12. Ecological Information

Environmental Fate: No information available

Environmental Toxicity:

Daphnia: EC50 >900 mg/L, 48H.

Fish: *Oryzias latipes* LC50 >100 mg/L, 96H.

Bacteria: No information available.

Algae: EC50, >1000 mg/L, 72H.



SECTION 13. Disposal Considerations

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

SECTION 14. Transport Information

DOT (US): Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods

SECTION 15. Regulatory Information

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

Section 313: 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: Acute health hazard, chronic health hazard.

US State Regulations:

On the following state right-to-know lists: Pennsylvania, New Jersey, and Massachusetts.

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

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: Apr. 9, 2021

Last Updated: Dec 19, 2023

Revision Information: Version 2

Product Use: Laboratory Reagent

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Prepared by: CellMosaic, Inc. Health and Safety