

Safety Data Sheet

MANUFACTURER

CellMosaic, Inc.
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General Information

Trade Name: SepSphere™ Peptide Immobilization via Maleimide
Part No. Covered by this SDS: CM71301

Product Content

- 1) A centrifuge tube containing less than 1 gram of agarose beads.
- 2) A plastic bottle containing 55 mL of Buffer A.
- 3) A centrifuge tube containing 2.5 mL of Solution A (hazardous).
- 4) A plastic bottle containing 55 mL of Storage Buffer (0.02% sodium azide in phosphate buffer saline).
- 5) A plastic bag containing one plastic column, one 15 mL centrifuge tube, one 50 mL centrifuge tube, three disposable spatulas, and one 20 mL of airtight syringe without needle.

Handling and Storage for Hazardous Chemicals

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

Other Information

Sodium azide is present in the mixture below 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 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

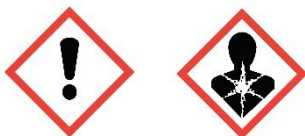
Product No.: CM01006

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



Flammable liquids

GHS Category 4

Eye Irritation

GHS Category 2A

Skin irritation

GHS Category 2

Reproductive Toxicity

GHS Category 1B

Specific target organ toxicity - single exposure

GHS Category 3

2.2. GHS Label elements, including precautionary statements.

Signal Word: DANGER

Hazard Statement(s):

H227 - Combustible liquid and vapor

H315 – Causes mild skin irritation

H319 - Causes eye irritation

H360 – May damage fertility or the unborn child

Precautionary Statement(s):

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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 your 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

Combustible liquid and vapor. (GHS Category 4).

Flash Point: 90-100°C (194-212 °F).

Autoignition Temperature: >200 °C (392 °F).

Flammable Limits: Lower Limit 1.3 vol%, Upper Limit -9.5 vol%.

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

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.

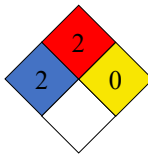
5.2. NFPA

Health Rating: 2

Flammability Rating: 2

Instability: 0

Physical hazards N/A



SECTION 6. Accidental Release Measures

Absorb spilled liquid with sorbent pads, socks, or other inert material such as vermiculite, sand, or earth. 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. Store under nitrogen blanket.

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:

Butyl-rubber.

Minimum layer thickness: 0.7 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: Amine like.

Solubility: Soluble in water.

Specific Gravity: No information available.

pH: slightly basic 8-10 (100 g/L H₂O).

Boiling Point: >200 °C.

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: 245 °C (473 °F).
Decomposition Temperature: No information available.
Viscosity: 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.
Hazardous Polymerization: Will not occur.
Incompatibilities with Various Substances: Strong oxidizing agents, strong acids, strong base, various plastics.
Conditions to Avoid: Ignition sources, excess heat.

SECTION 11. Toxicological Information

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

Acute Exposure Hazards:

INHALATION HAZARD: Causes respiratory tract irritation. May cause headache. Material has a very low vapor pressure at room temperature, so inhalation exposures are not expected unless material is heated or misted.

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.

Chronic Exposure Hazards: Prolonged or repeated exposure may cause dermatitis. Adverse reproductive effects have been reported in animals. Testicular effects were noted in rats after repeated, high-dose oral and inhalation exposures (BASF). Human occupational exposure has been associated with chronic eye irritation, headaches, and irritant contact dermatitis. Airborne concentrations of > 49 ppm are intolerable (REPROTEXT).

Animal Toxicity:

Draize test, rabbit, eye: >150 mg Moderate.

Oral, mouse: LD50 >5200 mg/kg.

Oral, rat: LD50 >4000 mg/kg.

Skin, rabbit: LD50 > 10 g/kg.

Sensitization test, guinea pig: negative; patch test (humans): negative (Merck).

Carcinogenicity: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available.

Teratogenicity: Proposition 65 maximum allowable dose level for developmental toxicity for this solvent is 3200 ug/day for the inhalation route and 17.00 ug/day for the dermal route.

Reproductive Effects: Possible effects observed.

Mutagenicity: Possible effects observed.

Neurotoxicity: No information available.

Other Studies: No information available.

SECTION 12. Ecological Information

Environmental Fate: No information available.

Physical: No information available.

Environmental Toxicity:

Daphnia: EC50: 5000 mg/L, 48H.

Fish: Gold orfe: LC50: 4500 mg/L, 96H.

Bacteria: EC50, >9000 mg/L, 48H.

Algae: IC50, >500mg/L, 72H.

Log Pow: No information available; BOD : 120 mg/L; COD : 1800 mg/L.

SECTION 13. Disposal Considerations

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

SECTION 14. Transport Information

DOT (US) NA-Number: 1993 Class: NONE.

Packing group: III.

Proper shipping name: Combustible liquid.

IMDG Not dangerous goods.



IATA Not dangerous good.

SECTION 15. Regulatory Information

US Federal Regulations:

TSCA: Listed on the TSCA Inventory.

Health and Safety Reporting List: Not listed.

Chemical Test Rules: 40 CFR 799.5000.

Section 12b: Not listed.

TSCA Significant New Use Rule: Does not have an SNUR under TSCA.

CERCLA Hazardous Substances: Does not have RQ.

SARA Section 302: Does not have a TPQ.

SARA Codes: – immediate, delayed, fire.

Section 313: Subject to SARA Title III Section 313 reporting requirements.

Clean Air Act: Not listed as a hazardous air pollutant (HAP). It is not a Class 1 Ozone Depleter. It is not a Class 2 Ozone Depleter.

Clean Water Act: Not listed as a Hazardous Substance. It is not a Priority Pollutant. It is not a Toxic Pollutant.

OSHA: Not considered highly hazardous by OSHA.

US State Regulations:

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

California Prop 65: California No Significant Risk Level: Not listed.

Canada:

DSL/NDS: Listed on Canada's DSL list.

WHMIS: This product has a WHMIS classification of B3, D2A, D2B. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and this SDS contains all the information required by those regulations.

Ingredient Disclosure List: No information available

DSCL (EEC):

Hazard Symbols: Xi, T

Risk Phrases: R36/37/38 – Irritating to eyes, respiratory system, skin; R61 – May cause harm to the unborn child.

Safety Phrases: S26 – In case of contact with eyes, rinse with plenty of water and seek medical advice; S37/39 – Wear suitable gloves and eye/face protection; S45 – In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible); S53 – Avoid exposure, obtain special instructions before use.

WGK (Water Danger/protection): 1

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: Nov. 04, 2020

Last Updated: Dec. 20, 2023

Revision Information: Version 2

Product Use: Laboratory Reagent

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Prepared by: CellMosaic, Inc. Health and Safe