



# Safety Data Sheet

## MANUFACTURER

CellMosaic, Inc.

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## General Information

**Trade Name:** PerKit™ Antibody or Protein PBD Dimer Conjugation Kit with Val-Ala linker

**Part No. Covered by this SDS:** CM11439x1, CM11439x3, CM11439.01x1, CM11439.01x3

## Product Content

- 1) One or three 1.5 mL microcentrifuge tube containing less than 1 mg of Mc-Val-Ala-PBD Dimer solution (hazardous, limited amount).
- 2) One or three 1.5 mL microcentrifuge tube containing less than 10 mg of Reagent A (non-hazardous).
- 3) One or three 1.5 mL microcentrifuge tube containing less than 1 mg of Reagent B solution (non-hazardous).
- 4) A tube containing 1 or 3 mL of Solution A (non-hazardous).
- 5) A bottle containing 4 or 12 mL of Buffer A (non-hazardous).
- 6) A bottle containing 12 or 40 mL of Buffer B (non-hazardous).
- 7) A plastic bottle containing 20 or 60 mL of Storage Buffer (phosphate buffer saline) (non-hazardous).
- 8) One 2.0 mL microcentrifuge tube containing 0.5 mL or 1.5 mL ADC Stabilizing PBS buffer (non-hazardous)
- 9) A plastic bag containing centrifugal filter devices, desalting columns, and microcentrifuge tubes (non-hazardous).

## Handling and Storage for Hazardous Chemicals

Handling for **Mc-Val-Ala-PBD Dimer Solution**: Please see attached supplement.

## Transportation

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

**Supplemental information starts from the next page.**



## Mc-Val-Ala PBD Dimer Solution

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

#### 1.1 Product identifiers

Product Name: Mc-Val-Ala PBD Dimer Solution.

Synonyms: Maleimidocaproyl-valine-alanine pyrrolo[2,1-c][1,4]benzodiazepines dimer solution.

Part No.: CM11030.1

#### 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 3, H301

Acute Toxicity: Oral, Category 3, H311

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

**Signal Word:** Danger.

**Hazard Statement(s)**

H301: Toxic if swallowed

H311: Toxic in contact with skin.

H331: Toxic if inhaled.

**Precaution Statement(s):**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P262 Do not get in eyes, skin, or on clothing.

P264 Wash skin thoroughly after handling.

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

P271 Use in a well-ventilated area.

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

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

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

P304 + P340 IF INHALED; Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P316 Get emergency medical help immediately.

P321 Specific treatment (see supplemental first aid instructions on this label).

P361 + P364 Immediately remove all contaminated clothing and wash it before reuse.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

### SECTION 3. Composition and Information on Ingredients

Ingredient	CAS No.	Percent	Hazardous
Mc-Val-Ala PBD Dimer	1342820-51-2	1-0.1%	Yes



The specific chemical identity of the organic solvent is being held as a trade secret (Proprietary component)	N/A	99.0-99.9%	Yes
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**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: 90-100°C (194-212 °F).

Autoignition Temperature: >300 °C (572 °F).

Flammable Limits (% in air): Lower Limit 1.3-3.5 vol%, Upper Limit 40-60 vol%.

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

Specific Explosion Hazards: may produce poisonous gases. Wear rubber gloves, SCBA, and rubber suit

Fire Fighting Media: Foam, carbon dioxide, dry powder, and water spray.

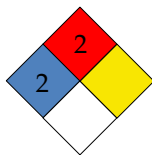
**5.2. NFPA**

Health Rating: 2

Flammability Rating: 2

Instability: 0

Physical hazards N/A

**SECTION 6. Accidental Release Measures**

Avoid raising and breathing dust and provide adequate ventilation. Absorb spilled liquid with sorbent pads, socks, or other inert material such as vermiculite, sand, or earth. Keep away from sources of ignition. Approach the spill from upwind and pick up absorbed material and transfer to a chemical waste container for disposal in accordance with local regulations. 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. Empty containers contain product residue (liquid and vapor) and can be dangerous. Use with adequate ventilation. Avoid breathing vapor or mist.

**Storage:** Keep container tightly closed in a dry and well-ventilated place.

**Recommended storage temperature:** -20 °C. Keep in a dry place.

**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:**



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**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.

**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:** ~1.09 at RT.

**pH:** slightly basic 8-9 (50/50 in H<sub>2</sub>O).

**Boiling Point:** No information available.

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

**Flash Point:** 90-100°C (194-212 °F).

**Autoignition Temperature:** >300 °C (572 °F).

**Flammable Limits (% in air):** Lower Limit 1.3-3.5 vol%, Upper Limit 40-60 vol%.

**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.

**Decomposition Temperature:** No information available.

**Viscosity:** N/A.

**Molecular Formula:** N/A.

**Molecular Weight:** N/A.

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**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:** sulfur oxides, nitrogen oxides, carbon oxides.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities with Various Substances:** Organic and inorganic acid chlorides, strong oxidizing agents, alkali metals, hydrobromic acid, acidic solutions of alkali bromides.

**Conditions to Avoid:** Prolonged heating above 143 °C (293 °F).

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

Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied.

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

**Toxicity:** No information available.

**Persistence and degradability:** No information available.

**Bioaccumulative potential:** No information available.



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**Mobility in Soil:** No information available.

**Results of PBT and vPvB:** No information available.

**Other adverse effects:** 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**

Land Transport (US DOT):

Proper Shipping Name: Not dangerous goods.

DOT Hazard Class (<100 gallons per container): Not regulated.

I.D. Number: None.

Packing Group: None.

Label(s): None.

Land Transport (European ADR/RID): Unregulated.

Air Transport (ICAO/IATA): Unregulated.

TDG (Canada) Status: Unregulated.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

### **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 (DeMinimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Acute Health Hazard.

**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 defects, or any other reproductive harm.

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

**New Jersey Right to Know Components:** No components are subject to the NJ 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) **European Chemicals Agency (ECHA)** and other similar compound's SDS.

**Other Special Considerations:** Not available.

**Created:** March 17, 2025

**Last Updated:** NA

**Revision Information:** Version 2

**Product Use:** Laboratory Reagent

#### **Disclaimer:**

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Protein PBD Dimer Conjugation Kit with Val-Ala linker

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