Safety Data Sheet

MANUFACTURER

CellMosaic, Inc.
10A Roessler Road, Woburn, MA 01801, USA
Phone: 1- 781-463-0002; Fax: 1- 781-998-4694, E-mail: info@cellmosaic.com

General Information

Trade Name: Antibody MMAE Conjugation Kit (With VC-PAB Linkage)

Part No. Covered by this SDS: CM11409x1, CM11409x3, CM11409.01x1, CM11409.01x3

Product Content

1) One or three 1.5 mL microcentrifuge tube containing less than 1 mg of MC-VC-PAB-MMAE solution (hazardous).
2) One or three 0.5 mL microcentrifuge tube containing less than 10 mg of Reagent A (non-hazardous).
3) A tube containing 1.5 or 6 mL of Solution A (non-hazardous).
4) A bottle containing 4 or 12 mL of Reducing Buffer (non-hazardous).
5) A bottle containing 4 or 12 mL of Labeling Buffer (non-hazardous).
6) A plastic bottle containing 20 or 60 mL of Storage Buffer (phosphate buffer saline) (non-hazardous).
7) A plastic bag containing centrifugal filter devices, desalting columns, and microcentrifuge tubes (non-hazardous).

Handling and Storage for Hazardous Chemicals

Handling for **MC-VC-PAB-MMAE Solution**: See Attached Supplement.

Transportation

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

Supplemental information starts from the next page.

MC-VC-PAB-MMAE Solution

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

1.1 Product Identifiers

Product Name: MC-VC-PAB-MMAE Solution.
Synonyms: MC-VC-PAB-MMAE solution; VcMMAE solution; Maleimidocaproyl-valine-citrulline-p-aminobenzoyloxycarbonyl-monomethyl auristatin E solution; Vedotin solution.
Product No.: CM11001

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,	GHS Category 4
Skin Corrosion/Irritation,	GHS Category 2
Serious Eye Damage/Eye Irritation,	GHS Category 2
Specific Target Organ Toxicity (single exposure),	GHS Category 3

2.2. GHS Label elements, including precautionary statements.

Signal Word: WARNING.
Hazard Statement(s):
H302 – Harmful if swallowed.
H315 – Causes mild skin irritation.
H319 - Causes serious eye irritation.
H335- May cause respiratory irritation.
Precaution Statement(s):
P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}. P264: Wash {hands} thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312: Call a POISON CENTER or doctor/physician if you feel unwell. P330: Rinse mouth.
P332+313: If skin irritation occurs, get medical advice/attention. P337+313: If eye irritation persists, get medical advice/attention.
P362+364: Take off contaminated clothing and wash it before reuse.

SECTION 3. Composition and Information on Ingredients

Ingredient	CAS No.	Percent	Hazardous
MC-Val-Cit-PAB-MMAE	646502-53-6	0.1-1%	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

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.

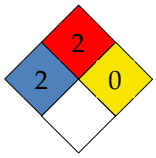
SECTION 5. Fire Fighting Measures

5.1. Flammability

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 Spill 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. Use spark-proof tools. 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: 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: Facilities for storing or using the material should be equipped with 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.
Work/Hygienic/Maintenance Practices: Do not take internally.
Exposure Limits: None established.

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_2O).
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.

SECTION 10. Stability and Reactivity

Stability: Stable at room temperature in closed container under normal handling and storage conditions.
Hazardous Decomposition Products: sulfur dioxides, 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: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution**.**
Persistence and degradability: No information available.
Bioaccumulative potential: No information available.
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

Material(s) known to the State of California to cause cancer: None.
Material(s) known to the State of California to cause adverse reproductive effects: None.
Massachusetts Substance List: None.
New Jersey Workplace Hazardous Substance List: None.
Pennsylvania Hazardous Substance List: None.
WHMIS (Canada) Ingredient Disclosure List: Listed.
WHMIS9 (Canada) Status: Regulated.
WHMIS (Canada) Hazard Classification: B/3 – Combustible Liquid.
IARC - International Agency for Research on Cancer Carcinogenicity Classification (components present at 0.1% or more): Not Listed.
ACGIH - American Conference of Governmental Industrial Hygienists: Not Listed.
NTP - National Toxicology Program: Not listed.
Reporting requirements of Section 313 or Title III of the superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372: None.
CEPA/DSL - Canadian Environmental Protection Act/ Domestic Substances List: Listed.
EINECS - European Inventory of Existing Commercial Chemical Substances: No. 200-664-3.
AICS/NICNAS - Australian Inventory of Chemical Substances/National Industrial Chemical notification and Assessment Scheme: This product is listed on AICS.
Japanese Handbook of Existing and New Chemical Substances: Listed.
EC Classification and User Label Information (Council Directive 67/548/EEC and 1999/45/EC): Hazard Symbols and Risk Phrases – None Required.
ICH (International Council on Harmonization): Class III – Solvent with low toxic potential.
TSCA-US Toxic Substances Control Act: this product is listed on the TSCA inventory.
SARA Section 311 and 312 hazard classification(s): Fire hazard.
Hazard Symbols: Xi, T
Risk Phrases: R36/37/38 – Irritating to eyes, respiratory system, skin; R22 – Harmful if swallowed.
Safety Phrases: S26 – In case of contact with eyes, rinse with plenty of water and seek medical advice; S36/37 – Wear suitable protective clothing and gloves.

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: Feb. 9, 2018
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Revision Information: Version 5
Product Use: Laboratory Reagent

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Prepared by: CellMosaic, Inc. Health and Safety