

Safety Data Sheet

SECTION I: Product and Company Identification

1.1 Product identifiers

Product name: Baculovirus Particles (BVPs)

Product Number: E3001

Brand: MEDNA™

Description: Baculovirus Particles are used to measure polyspecificity binding by therapeutic antibodies in in vitro assays for assessing therapeutic antibody developability. Provided as purified viral particles in phosphate buffered saline (PBS) at a concentration of $1 \times 10^{13-14}$ pfu/mL. The viral suspension consists of empty viral capsids (no vector genome) in PBS. Other trace components may be present, including but not limited to inorganic salts, vitamins and other nutrients, human cellular proteins, carbohydrates, amino acids, and fats. BVP is routinely shipped and stored frozen.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: For research use.

1.3 Details of the supplier of the safety data sheet

Company : MEDNA Scientific, Inc.™

1551 Corporate Drive

Irving, TX 75038

Office: 469-250-4424

Emergency phone number: 469-250-4424

SECTION II: Hazards identification

None

SECTION III: Composition/information on ingredients

Liquid or frozen virus particle suspensions

SECTION IV: First aid measures

Cultures are not known to cause disease in mammals. Cultures are known to cause disease in larval-stage insects of orders Diptera, Hymenoptera, and Lepidoptera.

SECTION V: Firefighting measures

None

SECTION VI: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental precautions

Prevent material from entering drains and water courses.

6.3 Methods and materials for containment and cleaning up

Contain spill and collect, as appropriate.

Transfer to a chemical waste container for disposal in accordance with local regulations

SECTION VII: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid breathing vapor or mist. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

SECTION VIII: Exposure controls/personal protection

8.1 Control parameters

No additional information available.

8.2 Exposure controls

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits

Personal protective equipment

Eye/face protection

Safety glasses or goggles are recommended when handling product.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

Not normally needed. In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls

Maintain levels below Community environmental protection thresholds

Other information

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION IX: Physical and chemical properties

9.1 Basic physical and chemical properties

- a) Appearance Form: Colorless
- b) Odor: No data available
- c) Odor threshold: No information available
- d) pH: No information available.
- e) Physical state at 20 degrees C: Liquid
- f) Flash point: No information available
- g) Decomposition temperature: No information available.
- h) Flammability limits in air: No information available.
- i) Explosion limits: No information available.
- j) Specific gravity: No information available.
- k) Solubility: No information available.

- l) Evaporation rate: No information available
- m) Vapor Pressure @ 20°C (kPa): No information available
- n) Vapor density: No data available
- o) VOC Content (%): Not applicable

9.2 Other safety information

No data available

SECTION X: Stability & Reactivity

None

SECTION XI: Toxicological information

11.1

Acute toxicity: Not classified.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation: May cause respiratory tract irritation.

Symptoms/injuries after skin contact: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Symptoms/injuries after eye contact: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Symptoms/injuries after ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

SECTION XII: Ecological information

12.1 Toxicity

This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

No data available

SECTION XIII: Disposal considerations

Spill: Contain spill and decontaminate the area using a disinfectant such as chlorine bleach (10% v/v).

Waste: Decontaminate infected liquid cultures using chlorine bleach (10% v/v) for a minimum of 10 minutes. Dispose of the decontaminated solution in a sink.

Dispose of infected animal tissues/carcasses by incineration. Dispose of viral stock by autoclaving at 121°C for 30-45 minutes.

Follow ALL federal, state and local regulations regarding biohazard disposal.

SECTION XIV: Transport information**DOT (US)**

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION XV: Special Protective Information

Handle as biohazardous material under Biosafety Level 1 containment.

SECTION XVI: Other information

Recommended that all BVP and cultures be handled by qualified individuals using appropriate safety procedures and precautions. Detailed discussions of laboratory safety procedures are provided in Laboratory Safety: Principles and Practice (Fleming et al., ASM Press, Washington D.C., 1995), and in the U.S. Government Publication, Biosafety in Microbiological and Biomedical Laboratories (CDC, 1999). This and other publications are available at the Centers for Disease Control Office of Health and Safety's website: <http://www.cdc.gov/od/ohs/biosfty/bmb14/bmb14toc.htm>

The above information is accurate to the best of our knowledge. All materials and mixtures may present unknown hazards and should be used with caution. The user should exercise independent judgment as to the hazards based on all sources of information available. MEDNA shall not be held liable for any damage resulting from the handling or use of the above product.

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