

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name HCMV (AD169) Purified Virus, β-PL Inactivated, VPC

Catalog Number 20-275-200

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

SU24 Scientific research and development

1.3 Details of the supplier of the safety data sheet

Manufacturing Supplier Advanced Biotechnologies, Inc

1545 Progress Way Eldersburg, MD 21784 Telephone (410) 792-9779

1.4 Emergency telephone number

**24 Hour Emergency Number** ChemTel, Inc 1-800-255-**392**4

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008

This product is not classified as hazardous according to the Regulation (EC) No 1272/2008 and subsequent amendments.

This product is not classified as hazardous according to the Globally Harmonized System (GHS)

This product is not classified as hazardous according to OSHA GHS regulations within the U.S.

#### 2.2 Label elements

# Labelling according to Regulation (EC) No 1272/2008

This product does not have a classification according to the CLP regulation.

This product is not classified as hazardous according to the OSHA GHS regulations within the U.S.

GHS Elements

Hazard Pictograms

Not Regulated

Not Regulated

Not Regulated

Not Regulated

**Hazard-determining components of labelling** None

Hazard statements Not Regulated

# 2.3 Other hazards

# Hazards Not Otherwise Classified (HNOC) or covered by GHS

There are no other hazards not otherwise classified that have been identified. After treatment with  $\beta$ -Propiolactone ( $\beta$ -PL), this preparation of  $\beta$ -PL Inactivated HCMV was specifically tested for residual infectivity and no infectious virus was detected.

NOTE: β-Propiolactone (β-PL) reacts with water to form 3-hydroxypropionic acid (hydracrylic acid), a non-toxic compound. After the addition of β-PL, the product was continuously stirred and incubated at 37°C followed by 4°C to facilitate this hydrolysis.

## Results of PBT and vPvB assessment

PBT Not applicable vPvB Not applicable



# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Description: Mixture consisting of the following components with HCMV, β-PL Inactivated

Components		Concentration/Amount
CAS: 77-86-1	Tris Base	10 mM
EC No: 201-064-4	Synonyms: Tris(hydroxymethyl)aminomethane, Trometamol	
CAS: 7647-14-5	Sodium Chloride	150 mM
EC No: 231-598-3		
CAS: 60-00-4	Ethylenediaminetetraacetic acid, (EDTA)	1 mM
EC No: 200-449-4	Synonyms: Edetic Acid	
	HCMV, β-PL Inactivated	

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

After inhalation Supply fresh air; consult doctor in case of complaints.

After skin contact Immediately wash with water and soap and rinse thoroughly.

After eye contact

Rinse immediately with plenty of water and seek medical advice.

**After swallowing** If swallowed, seek medical advice immediately and show the container/label/SDS.

# 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

# 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Use fire extinguishing methods suitable to surrounding conditions.

## 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

## 5.3 Advice for firefighters

Protective equipment: No special measures required.



## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

To minimize contact, wear a laboratory coat, nitrile or latex gloves, and protective glasses.

## **6.2** Environmental precautions

Disinfect material before disposal.

## 6.3 Methods and material for containment and cleaning up

Take up with absorbent material. Disinfect area with 3% hydrogen peroxide followed by 70% isopropyl alcohol.

#### 6.4 Reference to other sections

See Section 7 for Safe Handling. See Section 8 for Exposure Controls, See Section 13 for Disposal.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

This inactivated biological preparation should be handled in accordance with Good Laboratory Practices and any applicable local guidelines. Wear appropriate protective equipment (see Section 8). Practice good work hygiene.

# 7.2 Conditions for safe storage, including any incompatibilities

Storage temperature  $\leq$  -70°C in well-sealed receptacle.

#### 7.3 Specific end use(s)

No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

## Ingredients with limit values that require monitoring at the workplace

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

## 8.2 Exposure controls

Personal protective equipment

General protective/hygienic measures The usual precautionary measures are to be adhered to when handling

chemicals and biological material.

Ventilation Work in a biological safety cabinet to reduce the possibility of exposure. Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an

approved standard, if a risk assessment indicates this is necessary.

Protection of hands Protective gloves (i.e. nitrile or equivalent). **Eve protection** Safety glasses or safety goggles, as appropriate. Protective work clothing and laboratory coats. **Body protection** 



## **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

**General Information** 

**Appearance** Form: Liquid

Color: Slightly Whitish

**Odor** Odorless

**Odor Threshold** Does not apply, as substance is odorless.

pH 7.5

Change in condition Melting point/Melting range: Not determined

Boiling point/Boiling range: Not determined

Flash point Not applicable Evaporation rate Not determined

Flammability (solid, gaseous) Does not apply, substance is a liquid.

Auto/Self-ignition temperatureNot determinedDecomposition temperatureNot determined

**Self-igniting** Product is not self-igniting.

**Danger of explosion** Product does not present an explosion hazard.

Vapor pressure/density

Density

Not determined

Not determined

Not determined

Solubility in/Miscibility with Water Soluble

9.2 Other information

No further relevant information available.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity
No further relevant information available.
10.2 Chemical stability
No further relevant information available.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.

10.4 Conditions to avoid
10.5 Incompatible materials
10.6 Hazardous decomposition products
No further relevant information available.
No further relevant information available.

## **SECTION 11: Toxicological information**

11.1 Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification Unknown

Primary irritant effect

Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitization
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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.
STOT-single exposure
Based on available data, the classification criteria are not met.
STOT-repeated exposure
Based on available data, the classification criteria are not met.
Aspiration hazard
Based on available data, the classification criteria are not met.



## **SECTION 12: Ecological information**

12.1 Toxicity

No further relevant information available. **Aquatic toxicity** 12.2 Persistence and degradability No further relevant information available. 12.3 Bioaccumulative potential No further relevant information available. 12.4 Mobility in soil No further relevant information available.

**Other Information** The ecological effects have not been thoroughly investigated, but none have

been identified.

General notes Avoid release to the environment.

12.5 Results of PBT and vPvB assessment

**PBT** None of the substances present are considered PBT. vPvB None of the substances present are considered vPvB.

12.6 Other adverse effects No further relevant information available.

# **SECTION 13: Disposal considerations**

13.1 Waste treatment methods

Recommendation The user of this product has the responsibility to dispose of unused material,

residues and containers in compliance with all relevant local, state, and federal laws and regulations regarding treatment, storage, and disposal for hazardous

and nonhazardous wastes.

**Uncleaned packaging recommendation** 

Disposal must be made according to official regulations.

Recommended cleansing agents Disinfection with 3% hydrogen peroxide followed by 70% isopropyl alcohol.

## **SECTION 14: Transport information**

14.1 UN number

Not Regulated DOT, ADR, IMDG, IATA

14.2 UN proper shipping name DOT, ADR, IMDG, IATA Not Regulated

14.3 Transport hazard class(es)

DOT, ADR, IMDG, IATA Class Not Regulated

14.4 Packing group

DOT, ADR, IMDG, IATA Not Regulated

14.5 Environmental hazards

Marine Pollutant Mixture Not Classified Marine Pollutant

14.6 Special precautions for user Not Applicable 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not Applicable



## **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

**Unites States (USA)** 

SARA Section 355

None of the ingredients are listed.

None of the ingredients are listed.

None of the ingredients are listed.

TSCA (Toxic Substances Control Act)

All chemicals are listed.

Proposition 65 (California)

Chemicals known to cause Cancer

Chem cals known to cause reproductive toxicity for females

None of the ingredients are listed.

None of the ingredients are listed.

Chemicals known to cause developmental toxicity

None of the ingredients are listed.

None of the ingredients are listed.

None of the ingredients are listed.

Carcinogenic Categories

EPA (Environmental Protection Agency)

IARC (International Agency for Research on Cancer)
NIOSH-Ca
None of the ingredients are listed.
None of the ingredients are listed.

Canada - Canadian Domestic Substances List (DSL)

All chemicals are listed.

Other regulations, limitations and prohibitive regulations

Seveso III Directive (2012/18/EU)

None of the ingredients are listed.

Substances of very high concern (SVHC)

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

#### Disclaimer

The above information is believed to be accurate but does not purport to be all inclusive and shall be used only as a guide. Advanced Biotechnologies, Inc. shall not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

#### Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DOT: US Department of Transportation

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50/LD50: Lethal concentration, 50 percent/Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

PBT/vPvB: Persistent, Bioaccumulative and Toxic/very Persistent and very Bioaccumulative

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals (EC 1907/2006)

SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit STOT: Specific Target Organ Toxicity

SVHC: Candidate List of Substances of Very High Concern

TWA: Time Weighted Average

#### **Date of Preparation**

The effective date in the header of this document is the date of preparation and/or last revision.