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# SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

VHEPES, VHEPES PLUS, **Product Formal Name** VHEPES HEPARIN

**Product Form** Mixture

**Product Use** For professional use only

Manufacturer VITROMED GmbH – Hans-Knöll-Str. 6 – 07745 Jena – Germany

**Phone** +49 3641 5 39 19 76 For Emergency Assistance

Mail support@vitromed.com

### **SECTION 2 – HAZARDS IDENTIFICATION**

Regulation (EC) No 1272/2008 Non-Dangerous

Potential Acute Health Effects May be harmful by swallow; cause skin or eye irritation, be

irritating to mucous membranes and upper respiratory tract.

Potential Chronic Health Effects

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

VHEPES and VHEPES HEPARIN does not contain any raw materials of direct animal-origin or materials that have been produced using animal-origin components. Components have not been in contact with material of animal origin during processing and therefore pose no TSE risk.

VHEPES PLUS contains albumin, a derivative of human blood. All donors used in its manufacture were individually tested and found to be nonreactive for hepatitis B surface antigen (HBsAg) and antibodies to hepatitis C virus (HCV) and human immunodeficiency virus (HIV) by approved testing methods. Donors of the source material have been screened for Creutzfeldt-Jakob disease (CJD). Based on effective donor screening and product manufacturing processes, it carries an extremely remote risk for transmission of viral diseases. A theoretical risk for the transmission of CJD is also considered extremely remote. No cases of viral disease or CJD have ever been identified for albumin.

# **SECTION 4 – FIRST AID MEASURES**

Inhalation Remove to fresh air. If breathing becomes difficult, call a

physician.

Eyes Flush with plenteous amounts of water for at least 15 minutes.

Insure adequate flushing by separating the eyelids with fingers.

Skin Wash after each contact.

Ingestion Wash out with water provided person in conscious. Call a

physician.

Seek medical attention if any discomfort should occur.

# **SECTION 5 – FIREFIGHTING MEASURES**

**Extinguishing Media** Water spray, carbon dioxide, dry chemical powder or

appropriate foam.

**Special Firefighting Procedure** Wear self-contained breathing apparatus and protective

clothing to prevent contact with skin and eyes.

**Unusual Fire and Explosion Hazards** Emits toxic fumes under fire conditions.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Wear chemical safety goggles. Wear rubber gloves. Avoid

contact with skin, eyes and clothing.

**Environmental Precautions** Prevent entry to sewers and public waters.

Rinse spill area with water. Dispose with laboratory waste. Methods for Cleaning Up

# SECTION 7 – HANDLING AND STORAGE

Refer Section 8. Handling

Store at 2 - 8°C. Do not freeze before use. Keep the product in Storage

the original packaging or shield from light while not in use. Do

not use after expiry date. Keep away from sunlight.

## **VHEPES**

Safety Data Sheet

**Specific Use**See instructions for use delivered with the device. For

professional use only.

### SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Controls (Occupational)** Wear chemical safety goggles. Wear rubber gloves. Avoid

contact with skin, eyes and clothing. Avoid inhalation. Avoid

mouth pipetting.

### **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance and Odor**VHEPES - Reddish transparent liquid, odorless

VHERES BLUS - Reddish transparent liquid, odorless

VHEPES PLUS - Reddish transparent liquid, odorless

**pH** 7.0 – 7.4

Boiling Point

Flash Point

Not available

Flammability

Non-flammable

Explosive Properties

Not available

Oxidizing Properties

Not available

Vapor Pressure

Relative density

Not available

**Solubility** Highly soluble in water

Solubility in WatercompleteViscosityNot availableEvaporation RateNot available

# **SECTION 10 – STABILITY AND REACTIVITY**

**Stability** Stable.

**Conditions to Avoid**Direct (sun)light, extremely high or low temperatures.

Materials to Avoid Strong acids and bases.

**Hazardous Decomposition Products** Carbon monoxide and dioxide.

# SECTION 11 - TOXICOLOGIAL INFORMATION

May cause skin irritation. May be harmful if absorbed through the skin. May cause eye irritation. May be harmful if inhaled. Material may be irritating to mucus membranes and upper respiratory tract. May be harmful if swallowed. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## SECTION 12 – ECOLOGICAL INFORMATION

No known Ecological Damage. No additional data is available for the mobility, bioaccumulative potential, persistence and degradability.

# **SECTION 13 – DISPOSAL CONSIDERATIONS**

Dispose in a safe manner in accordance to with local and national regulations and avoid release to the environment.

## **SECTION 14 – TRANSPORT INFORMATION**

Not classified as Hazardous for transport.

# **SECTION 15 – REGULATORY INFORMATION**

This product does not contain any ingredients which have been determined to be health hazardous pursuant to U.S. OSHA regulations, and which comprise 1 % or more (0.1 % for carcinogens) of the mixture.

Information shown on the Label ISO 15223-1 & 93/42/EEC

# SECTION 16 – OTHER INFORMATION

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must take independent determinations of the suitability and completeness of information from all other sources to assure proper use and disposal of these materials and the safety and health of employees and customers. VITROMED GmbH shall not be held liable for any damage resulting from handling or from contact with its products.