



SECTION 1 – IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Formal Name	∇HEPES, ∇HEPES PLUS, ∇HEPES HEPARIN
Product Form	Mixture
Product Use	For professional use only
Manufacturer	VITROMED GmbH – Raiffeisenstr. 15a - 40764 Langenfeld- Germany
For Emergency Assistance	Phone +49-2173-2004130 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	Not available

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

∇HEPES and ∇HEPES 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.

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

SECTION 7 – HANDLING AND STORAGE

Handling	Refer Section 8.
Storage	Store at 2 - 8°C. Do not freeze before use. Keep the product in 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
VHEPES HEPARIN - Reddish transparent liquid, odorless
VHEPES PLUS - Reddish transparent liquid, odorless

pH 7.0 – 7.4

Boiling Point Not available

Flash Point Not available

Flammability Non-flammable

Explosive Properties Not available

Oxidizing Properties Not available

Vapor Pressure Not available

Relative density Not available

Solubility Highly soluble in water

Solubility in Water complete

Viscosity Not available

Evaporation Rate Not 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 – TOXICOLOGICAL 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.