



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

1.1 Product identifier

Product name **V**DENUPET including all variants
Product form Substance

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

Industrial/Professional use spec For professional use only.
Use of the substance/mixture Microtool for denudation and handling of oocytes and embryos.
Uses advised against No additional information available.

1.3 Details of the supplier of the safety data sheet

Manufacturer VITROMED GmbH
Göschwitzer Str. 22
07745 Jena
Germany
support@vitromed.com

1.4 Emergency telephone number

Emergency number +49 3641 5 39 19 76

SECTION 2 – HAZARDS IDENTIFICATION

2.1 Emergency telephone number

Classification (EC) No 1272/2008 Not classified.
Adverse physicochemical, human health and environmental effect No additional information available.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 No labelling applicable.

2.3 Other hazards

No additional information available.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008
Polycarbonate	CAS code: 103598-77-2 EC / List no.: 639-891-1	100	Not classified

Full text of H-phrases: see section 16

3.2 Mixture

Not applicable.

Comments

V-DENUPET 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.

SECTION 4 – FIRST AID MEASURES

4.1 Description of first aid measures

First-aid measures general Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact No data available.
First-aid measures after eye contact Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2 Most important symptoms and effects, both acute and delayed

V DENU PET

Safety Data Sheet

Symptoms/injuries Not expected to present a significant hazard under anticipated conditions of normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5 – FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Water; carbon dioxide, dry chemical, foam.
Unsuitable extinguishing media No information available.

5.2 Special hazards arising from the substance or mixture

Autoignition temperature: Above 450°C.

5.2 Advice for firefighters

Firefighting instructions Use extinguishing media that is appropriate for the classification of the surrounding fire.
Protection during firefighting Wear chemical safety goggles. Wear rubber gloves. Avoid contact with eyes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Emergency procedures Evacuate unnecessary personnel.
Protective equipment Equip cleanup crew with proper protection.
Emergency procedures Ventilate area.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up If molten material is spilled, allow it to solidify. Remove material mechanically by a method which minimizes the generation of airborne dust and place in appropriately marked containers.

6.3 Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7 – HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling No data available

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Store in dry environment. Avoid excessive humidity. Keep only in the original container away from direct (sun)light. Do not use after expiry date. Cannot be resterilized after opening. 15 – 25 °C.
Incompatible products Strong bases. Strong acids.
Incompatible materials Sources of ignition. Direct (sun)light.
Storage temperature 15 – 25 °C

7.3 Specific end uses(s)

See instructions for use delivered with the product.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No additional information available.

8.2 Exposure controls

Appropriate engineering controls The greatest potential for injury occurs when working with molten polymeric resins. During this type of operation, it is essential that all workers in the immediate area wear eye and skin protection as protection from thermal burns. Purgings should be collected as small flat thin shapes or thin strands to allow for rapid cooling. Precautions should be taken against auto-ignition of hot, thick masses of the plastic. Quench with water. Grinder dust is an exposure hazard.

Personal protective equipment Wear fire/flame resistant/retardant clothing.

V DENU PET

Safety Data Sheet

Skin protection	Complete suit protecting against chemicals, flame retardant antistatic protective clothing. The type of protection must be selected according to the concentration and volume of the dangerous substance at the specific workplace.
Hand protection	Wear protective gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to meet specifications of regulation EU 2016/425 and the standard EN374.
Eye/Face protection	Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Respiratory protection	Wear appropriate mask. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Other information	Do not eat, drink or smoke during use. Do not pipette liquid using a mouth pipette.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Solid
Appearance	Various forms and shapes.
Colour	Color clear.
Odour	No odor.
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Non flammable
Vapour pressure	No data available
Relative vapour density at 20°C	No data available
Relative density	No data available
Solubility	Not soluble in water
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

9.2 Other information

Other properties	No additional information available.
-------------------------	--------------------------------------

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity

No additional information available.

10.2 Chemical stability

Stable for 5 years after date of manufacture.

V^oDENUPET

Safety Data Sheet

10.3 Possibility of hazardous reactions

Not established.

10.4 Conditions to avoid

Direct (sun)light. Rough handling or dropping. Autoignition temperature: Above 450°C

10.5 Incompatible materials

Strong acids. Strong bases.

10.6 Hazardous decomposition products

No additional information available.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity (oral, dermal, inhalation)	Not classified. Extensive data from Mouse Embryo Assays have demonstrated that the medium is not toxic.
Skin corrosion/irritation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Carcinogenicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Reproductive toxicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
STOT-single exposure	Not classified.
Additional information	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Aspiration hazard	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

SECTION 12 – ECOLOGICAL INFORMATION

12.1 Toxicology

Hazardous to the aquatic environment, short-term (acute)	Not classified.
Hazardous to the aquatic environment, long-term (chronic)	Not classified.

12.2 Persistence and degradability

Not established.

12.3 Bioaccumulative potential

Not established.

12.4 Mobility in soil

No additional information available.

12.5 Results of PBT and vPvB assessment

No additional information available.

12.6 Other adverse effects

Avoid release to the environment.

V DENU PET

Safety Data Sheet

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	Avoid release to the environment.

SECTION 14 – TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / AND

14.1 UN number

Not regulated for transport.

14.2 UN proper shipping name

Proper Shipping Name (ADR)	Not applicable.
Proper Shipping Name (IMDG)	Not applicable.
Proper Shipping Name (IATA)	Not applicable.
Proper Shipping Name (ADN)	Not applicable.
Proper Shipping Name (RID)	Not applicable.

14.3 Transport hazard class(es)

Transport hazard class(es) (ADR)	Not applicable.
Transport hazard class(es) (IMDG)	Not applicable.
Transport hazard class(es) (IATA)	Not applicable.
Transport hazard class(es) (ADN)	Not applicable.
Transport hazard class(es) (RID)	Not applicable.

14.4 Packing group

Packing group (ADR)	Not applicable.
Packing group (IMDG)	Not applicable.
Packing group (IATA)	Not applicable.
Packing group (ADN)	Not applicable.
Packing group (RID)	Not applicable.

14.5 Environmental hazards

Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available.

14.6 Special precautions for user

Overland transport	No data available.
Transport by sea	No data available.
Air transport	No data available.
Inland waterway transport	No data available.
Rail transport	No data available.

14.7 Transport in bulk according to Annex II and the IBC Code

Not applicable.

SECTION 15 – REGULATORY INFORMATION

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

EU-Regulations	Contains no REACH substances with Annex XVII restrictions. Contains no substance on the REACH candidate list. Contains no REACH Annex XIV substances. Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals. Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.
-----------------------	--

V DENUPET

Safety Data Sheet

National regulations

Germany

Water hazard class (WGK)

No WGK, not hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV)

Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. To the best of our knowledge, this product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16 – OTHER INFORMATION

Data sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

None

SDS EU (REACH Annex II)

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.