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Material Safety Data Sheet (MSDS)
Embolisation Simulator by Swiss Vascular GmbH

Section 1: Identification

Creation Version 1:	04.09.2024
Current version:	1.0
Trade Name:	Embolisation Simulator
Manufacturer/Supplier:	Swiss Vascular GmbH
Application:	Silicone rubber for the production of elastomeric vascular models. Epoxy Resin for the production of Cartridges (Product code: FLGPCL04)
Further information obtainable from:	info@swiss-composite.ch
Details of the supplier of the safety data sheet:	Swiss Vascular GmbH Gotthardstrasse 25 8002 Zurich Switzerland 044 632 46 56 info@swiss-vascular.ch
Emergency contact:	Tox Info Suisse Tel. 145 (International +41 (0)44 251 51 51)

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification: The product is not classified as hazardous according to Regulation (EC) No 1272/2008.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:	Void
Hazard pictograms:	Void
Signal word:	Void
Hazard statements:	Void

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:	Not applicable.
vPvB:	Not applicable.

Section 3: Composition/Information on Ingredients

Substance: Polydimethylsiloxane with reactive groups, containing trace amounts of platinum catalyst.

Section 4: First Aid Measures

Inhalation: Move to fresh air. Seek medical attention if symptoms occur.
Skin Contact: Wash with soap and water. Generally not irritating.
Eye Contact: Rinse thoroughly with water. Seek medical attention if irritation persists.
Ingestion: Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention.

Section 5: Firefighting Measures

Extinguishing Media: Use CO2, dry powder, or water spray. Avoid full water jet.
Hazards: Potential release of toxic gases such as carbon monoxide.
Protection: Use a self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal Precautions: Wear protective clothing and avoid slipping on spilled product.

Environmental Precautions: Prevent from entering waterways.
Cleanup Methods: Absorb with sand or similar material and dispose of in accordance with local regulations.

Section 7: Handling and Storage

Handling: Ensure good ventilation. Avoid static discharge.
Storage: Store in a cool, dry, well-ventilated area at 20-25°C. Avoid exposure to UV radiation.

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.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Respiratory protection: Not necessary if room is well-ventilated.
Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
Butyl rubber, BR
Nitrile rubber, NBR
Eye protection: Tightly sealed goggles
Body protection: Protective work clothing

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Form:	Solid
Color:	Transparent
Odor:	Characteristic
Odour threshold:	Not determined
Boiling Point:	Not determined
Flash Point:	> 200 °C
Flammability (solid, gas):	Not determined
Ignition temperature:	> 400 °C
Decomposition temperature:	Not determined
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	Lower: Not determined. Upper: Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	1.03 - 1.1 g/cm³ at 20°C
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in/Miscibility with water:	Insoluble.
Partition coefficient: n-octanol/water:	Not determined.
Organic solvents content:	0.0 % VOC (EC) 0.0 g/l ·

9.2 Other information

No further relevant information available.

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Section 10: Stability and Reactivity

Reactivity: No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	No further relevant information available.
Incompatible materials:	Incompatible with oxidizing agents, acids

10.3 Hazardous decomposition products

Measurements have shown that at temperatures from about 150 ° C by formation of small amount Formaldehyde is split off. Carbon monoxide and carbon dioxide

Section 11: Toxicological Information

11.1 Information on toxicological effects

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

Primary irritant effect:
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Irritation feasible
Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, 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

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability: Nonbiodegradable

Other information:
Elimination by adsorption on activated sludge
Elimination by adsorption onto activated sludge

12.3 Bioaccumulative potential: Ingen bioakkumulation

12.4 Mobility in soil: No further relevant information available.

Additional ecological information:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

Section 13: Disposal Considerations

13.1 Waste treatment methods

Recommendation: Must be specially treated adhering to official regulations.

Waste disposal key:
For this product no waste code number can be determined as per the European Waste List, since the intended use by the consumer. The waste key number must be determined in consultation with the regional waste disposal.

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

Section 14: Transport Information

UN Number: Not classified as dangerous goods.
Proper Shipping Name: Not applicable.
Hazard Class: None

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:	Void
Hazard pictograms:	Void
Signal word:	Void
Hazard statements:	Void

Directive 2012/18/EU
Named dangerous substances - ANNEX I: None of the ingredients is listed.

National regulations:
Waterhazard class: Water hazard class 1 (VwVwS 17.05.99): slightly hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out

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Section 16: Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
Department issuing SDS: environment protection department
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Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International
Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative