

MATERIAL SAFETY DATA SHEET

Ultra Clear Silicone

Safety information for the silicone material used in Swiss Vascular products.

VERSION	CREATED	MANUFACTURER	CLASSIFICATION
1.0	04.09.2024	Swiss Vascular GmbH	Not classified as hazardous

SECTION 1

Identification

Creation Version 1	04.09.2024
Current version	1.0
Trade Name	Silicone Vascular Model
Manufacturer/Supplier	Swiss Vascular GmbH
Application	Silicone rubber for the production of elastomeric vascular models.
Further information obtainable from	info@swiss-vascular.ch
Details of the supplier of the safety data sheet	Swiss Vascular GmbH Gotthardstrasse 25 8002 Zurich Switzerland +41 44 632 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.
Glove material guidance	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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Suitable for permanent contact of a maximum of 15 minutes	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

PROPERTY	VALUE
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.
Explosion limits - Upper	Not determined.
Vapour pressure	Not determined.
Density at 20 °C	1.03 - 1.1 g/cm ³ 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.

SECTION 10

Stability and Reactivity

Reactivity	No further relevant information available.
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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 (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

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

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
Contact	F. Landers Tel. +41 44 203 53 15

SECTION 16A

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