## **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

071465186

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071231190 071300086 071334473 071465194 071465202

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

071472299



### SAFETY DATA SHEET

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Revision: 10/31/2023 Regulation (EC) No 1907/2006 and 2015/830 (REACH), OSHA HAZCOM 2012, Supersedes Date: New SDS WHMIS 2015

Section 1 Identification of the Substance/Prepar	ration and of the Compa	any/Undertaking.
1.1 Product Identifier Product Type: 3D Printing Resin Trade Name: Verimodel O.S. Veriguide O.S. Verisplint O.S. VeriDent Try-In VeriTray VeriGum		
1.2 Relevant Identified Uses of the Substance o Product Use: Resin for production of dental ap Uses Advised Against: For professional use of	oplications. only.	vised Against
.3 Details of the Supplier of the Substance or Mi	xture:	
	EU Importer Whip Mix Eur Hagenerstr. 2 De – 44225 D 7-1451 Germany +49 231 / 567 1(800) 424-9300 (U.S. an Calls: 1- 703-527-3887 (C	1 Dortmund 7 70 8-0 Id Canada)
Other Product Information: Info@Whipmix.co www.whipmix.cor		
Section 2 Hazard Identification		
2.1 Classification of the Mixture: OSHA/WHMIS/GHS/CLP Classification (1272/	20081-	
Health Hazards	Physical Hazards	Environmental Hazards
Skin Sensitization Category 1A H317 Skin Irritation Category 2 H315 Eye Irritation Category 2A H319 Specific Target Organ Toxicity – Single Exposure Category 3 H335 Toxic to Reproduction Category 2 H361	Not Hazardous	Hazardous to the Aquatic Environment Chronic Category 3 H412
2.2 Label Elements Warning!		



P280 Wear protective gloves and eye protection. P273 Avoid release to the environment. P272 Contaminated work clothing must not be allowed out of the workplace. P271 Use only outdoors or in a well-ventilated area. P264 Wash thoroughly after handling. P261 Avoid breathing mists, vapors or spray. P202 Do not handle until all safety precautions have been read and understood. P201 Obtain special instructions before use. Precautionary Phrases: H412 Harmful to aquatic life with long lasting effects. H361 Suspected of damaging fertility or the unborn child. H335 May cause respiratory irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H315 Causes skin irritation.

Contains Methacrylate oligomers and monomers, Acrylate oligomers and monomers, and Phosphine Oxide.

P308 + P313 IF exposed or concerned: Get medical attention.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER or doctor if you feel unwell.

P501 Dispose of contents and container in accordance with local and national regulations.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

Section 3 Composition/Information on Ingredients.

P337 + P313 If eye irritation persists: Get medical attention.

P391 Collect spillage.

P405 Store locked up. P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

2.3 Other Hazards: None

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	CLP/GHS Classification (1272/2008)	<u> </u>	<u>CAS No. /</u> EC Number	<u>əpretedu 2</u>	
	Skin Sensitization Category1 H317	<30	Proprietary	Methacrylate oligomer 1	
	Skin Irritation Category 1 H315 Specific Target Organ Toxicity – Single Exposure Category 3 H335	<30	Proprietary	2 Methacrylate oligomer	
	Eye Irritation Category 2 H319 Aquatic Chronic Category 3 H412	<32	Proprietary	Acrylate Oligomer	
	Skin Irritation Category 2 H315 Eye Irritation Category 2 H319	<30	Proprietary	Methacrylate Monomer ۱	
	Skin Sensitization Category 1A H317 Reproductive Toxicity Category 2 H361df	<20	Proprietary	Acrylate Monomer	
	Skin Irritation Category 2 H315 Eye Irritation Category 2 H319 Specific Target Organ Toxicity – Single Exposure Category 3 H335	<30	Proprietary	2 Methacrylate Monomer	

Methacrylate Monomer 4	Proprietary	<20	Skin Irritation Category 2 H315 Eye Irritation Category 2 H319
Methacrylate Oligomer 3	Proprietary	<35	Skin Sensitization Category 1 H317
Phosphine Oxide	75980-60-8	<2	Skin Sensitization Category 1 H317 Reproductive Toxicity Category 2 H361df Aquatic Chronic Toxicity Category 2 H411

See Section 16 for full text of GHS.

#### Section 4 First-Aid Measures.

#### 4.1 Description of First Aid Measures

Inhalation: Remove to fresh air. If irritation persists, get medical attention.

**Eyes:** Flush eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. Seek immediate medical attention.

**Skin:** Remove contaminated clothing. Wash skin with soap and water. If irritation or rash develop, get medical attention. Launder clothing before reuse.

**Ingestion:** If large amounts are swallowed, get medical attention.

**4.2 Most Important symptoms and effects, both acute and delayed:** Causes eye and skin irritation. May cause respiratory irritation. May cause allergic skin reaction. Suspected of causing reproductive effects based on animal data.

**4.3 Indication of any immediate medical attention and special treatment needed**: Immediate medical attention is not required.

#### Section 5 Fire-Fighting Measures.

**5.1 Extinguishing Media:** Use water spray, alcohol-resistant foam, carbon dioxide or dry chemical. Do not use a steady stream of water.

**5.2 Special Hazards Arising from the Substance or Mixture:** Not flammable or combustible but may burn under fire conditions.

**5.3 Advice for Fire-Fighters:** Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus. Cool fire exposed containers with water.

#### Section 6 Accidental Release Measures.

**6.1 Personal Precautions, Protective Equipment and Emergency Procedures:** Wear protective clothing and equipment as described in Section 8. Wash thoroughly after handling.

**6.2 Environmental Precautions:** Report releases as required by local and national authorities. Avoid release to the environment.

**6.3 Methods and Material for Containment and Cleaning Up:** Contain and collect with an inert absorbent. Place into a container for disposal. For small spill, wipe up with a paper towel.

**6.4 Reference to Other Sections:** Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

#### Section 7 Handling and Storage.

**7.1 Precautions for Safe Handling**: Avoid contact with eyes, skin and clothing. Avoid breathing mists or spray. Use with adequate ventilation. Wash exposed skin thoroughly with soap and water after handling.

**7.2 Conditions for Safe Storage, Including any Incompatibilities**: Store in a cool, dry, well-ventilated location. Protect from heat and direct sunlight.

7.3 Specific end use(s):

Industrial uses: None identified

Professional uses: Resin for the production of dental applications.

Section 8 Exposure Controls/Personal Protection

8.1 Control Parameters:

Methacrylate oligomer 1	None Established
Methacrylate oligomer 2	None Established
Acrylate Oligomer	None Established
Methacrylate Monomer 1	None Established
Acrylate Monomer	None Established
Methacrylate Monomer 2	None Established
Methacrylate Monomer 4	None Established
Methacrylate Oligomer 3	None Established
Phosphine Oxide	None Established

#### 8.2 Exposure Controls:

Recommended Monitoring Procedures: Contact an occupational hygiene professional for monitoring.

Appropriate engineering controls: Use with adequate general or local exhaust ventilation to minimize exposures.

#### Personal Protective Measurers- Refer to EU Reg 2016/425

**Respiratory protection:** None required under normal conditions of use. If exposures are excessive, or irritation is experienced an approved dust/mist respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with applicable regulations and good industrial hygiene practice. In Europe follow EN 149.

Skin protection: Wear impervious gloves to avoid skin contact. In Europe follow EN 374.

Eye/Face protection: Wear safety goggles if contact is possible. In Europe follow EN 166.

**Other:** Protective clothing as required to avoid skin contact. In Europe follow EN 13034. An eye wash should be available in the work area.

#### Section 9 Physical and Chemical Properties.

#### 9.1 Information on basic Physical and Chemical Properties

Appearance: Clear or white or colored liquid	
Physical State: Liquid	
Odor: Characteristic odor	
Odor threshold: No data available	<b>pH:</b> No data available
Melting point/freezing point: No data available	Boiling point: No data available
Flash point: No data available	Evaporation rate: No data available
Flammability (solid, liquid, gas): No data available	
Flammable limits: LEL: No data available	UEL: No data available
Vapor pressure: No data available	Relative Vapor density (air = 1): No data available
Relative density: No data available	Solubility In Water: Insoluble
Partition coefficient: n-octanol/water: Not applicable	Auto-ignition temperature: No data available
Decomposition temperature: No data available	Viscosity: No data available
Explosive Properties: Not applicable	Oxidizing Properties: Not applicable
Particle Characteristics: Not applicable	

9.2 Other Information: None available

Section 10 Stability and Reactivity.

**10.1 Reactivity:** None known if used in accordance with package instructions.

10.2 Chemical stability: Stable.

10.3 Possibility of hazardous reactions: Product will polymerize in contact with heat or light.

**10.4 Conditions to avoid:** Avoid unintended contact with light and heat.

**10.5 Incompatible materials:** Avoid peroxides and free radical compounds, peroxides, strong oxidizing agents and strong alkalis.

**10.6 Hazardous decomposition products:** Thermal decomposition may generate oxides of carbon and nitrogen.

Section 11 Toxicological Information.

#### **11.1 Information on Toxicological Effects:**

#### Potential Health Effects:

Eyes: Causes irritation with redness, tearing and swelling.
Skin: Causes skin irritation with redness and itching. May cause allergic skin reaction.
Ingestion: Large amounts may cause gastrointestinal irritation and nausea.
Inhalation: Inhalation of mists may cause irritation of the eyes, nose and upper respiratory tract. Symptoms include coughing, sneezing and difficulty in breathing.
Chronic Health Effects: Contain a component that is suspected of damaging fertility.

Acute Toxicity: Based on available data, the classification criteria are not met. Methacrylate Oligomer 1: Oral rat LD50 5050 mg/kg; Dermal rabbit LD50 >3000 mg/kg Methacrylate Oligomer 2: Oral rat LD50 2400 mg/kg; Dermal rabbit LD50 <3000 mg/kg Acrylate Oligomer: Oral rat LD50 >2000 mg/kg; Dermal rabbit LD50 >2000 mg/kg; Inhalation rat LC50 >5 mg/L/4 hr (Dust/Mist)

Methacrylate Monomer 1: Oral rat LD50 >2000 mg/kg Acrylate Monomer: Oral rat LD50 4660 μL/kg; Dermal rabbit LD50 2540 μL/kg Methacrylate Monomer 4: Dermal rabbit LD50 >3000 mg/kg Phosphine Oxide: Oral rat LD50 >2000 mg/kg, Dermal rat LD50 >2000 mg/kg

**Skin corrosion/irritation:** Methacrylate Oligomer 2, Methacrylate Monomer 1, Methacrylate Monomer 2, and Methacrylate Monomer 4 are skin irritants.

**Eye damage/ irritation:** Methacrylate Oligomer 2, Acrylate Oligomer, Methacrylate Monomer 1, Methacrylate Monomer 2, and Methacrylate Monomer 4 are eye irritants.

**Respiratory Sensitization:** Based on available data, the classification criteria are not met.

**Skin Sensitization:** Methacrylate Oligomer 1, Acrylate Monomer, Methacrylate Oligomer 3, and Phosphine Oxide are skin sensitizers.

Germ Cell Mutagenicity: Based on available data, the classification criteria are not met.

**Carcinogenicity:** Based on available data, the classification criteria are not met. None of the other components >0.1% are listed by OSHA, IARC, NTP or the EU CLP.

**Reproductive Toxicity:** Acrylate Monomer and Phosphine oxide are suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity:

Single Exposure: Based on available data, the classification criteria are not met.

Repeat Exposure: Based on available data, the classification criteria are not met.

Aspiration Toxicity: Based on available data, the classification criteria are not met.

**11.2 Information on Other Hazards** 

11.2.1 Endocrine Disrupting Properties: None known

11.2.2 Other Information: None

#### Section 12. Ecological Data.

12.1 Ecotoxicity: Harmful to aquatic life with long lasting effects

Methacrylate Oligomer 1: 96 hr LC50 Pimephales promelas 27 mg/L; 48 hr EC50 daphnia magna >380 mg/L Methacrylate Oligomer 2: 96 hr LC50 Danio rerio 1.8 mg/L; 48 hr EC50 daphnia magna 1.1 mg/L Acrylate Oligomer: 96 hr LC50 Brachydanio rerio 100 mg/L; 48 hr LC50 daphnia magna No toxicity; 72 hr IC50 Scenedesmus subspicatus 537 mg/L

Methacrylate Monomer 4: 96 hr LC50 fish 119.44 mg/L

Phosphine Oxide: 48 hr LC50 Oryzias latipes 6.53 mg/L, 48 hr EC50 daphnia magna 3.53 mg/L, EC10 Pseudokirchneriella subcapitata 1.56 mg/L

12.2 Persistence and degradability: Acrylate oligomer is not readily biodegradable (9% in 28 days).

#### **12.3 Bioaccumulative potential:** No data available

**12.4 Mobility in soil:** No data available.

12.5 Results of PBT and vPvB assessment: Components do not meet the criteria of PBT or vPvB.
12.6 Endocrine Disrupting Properties: None known
12.7 Other adverse effects: Not required.

#### Section 13. Disposal Considerations.

13.1 Waste Treatment Methods: Dispose in accordance with all national and local regulations.

#### Section 14. Transport Information.

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT		Not Regulated			
Canadian TDG		Not Regulated			
EU ADR/RID		Not Regulated			
IMDG		Not Regulated			
IATA/ICAO		Not Regulated			

#### 14.6 Special precautions for User: Not applicable

14.7 Transport in Bulk According to IMO Instruments: Not applicable – product is transported only in packaged form.

#### Section 15 Regulatory Information.

#### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### US Regulations

**SARA Section 313 (40 CFR 372):** This product contains the following toxic chemical(s) subject to reporting requirements of SARA 313: None

SARA Section 311/312 (40 CFR 370) Hazard Categories: Refer to Section 2 for OSHA Hazard Classification.

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**California:** This product is not known to contain any chemicals listed by the State of California as causing cancer and/or reproductive harm.

#### Chemical Inventories

Toxic Substances Control Act (TSCA): All of the components of this product are listed on the TSCA inventory

**Canadian Environmental Protection Act:** All of the components of this product are listed on the Domestic Substances List (DSL).

**Other EU Regulations**: This product is classified and labeled in accordance with EC CLP. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 and 2015/830 (REACH.)

#### German Water Hazard Class (VwVwS): 2

#### 16. Other Information.

• HMIS Rating: Health 2\* Flammability 1 Physical Hazard 0 Hazard: 4-Severe; 3-Serious; 2-Moderate; 1-Slight; 0-Minimum

Date Revised: October 31, 2023 SDS Revision History: New SDS Supersedes Date: New SDS

CLP/GHS Classification and H Phrases for Reference (See Section 3)         H315 Causes skin irritation.         H317 May cause an allergic skin reaction.         H319 Causes serious eye irritation.         H335 May cause respiratory irritation.         H361df Suspected of damaging fertility or the unborn child.         H411 Toxic to aquatic life with long lasting effects.         H412 Harmful to aquatic life with long lasting effects.         Literature references and sources for data: ECHA database, GESTIS, eChemPortal, TOXNET, Supplier SDS         Classification and procedure used to derive the classification for mixtures according to Regulation (EC)         1272/2008 (CLP): Calculation method		
Prepared By: Thurk Divalle	Translated By:	
Date: October 31, 2023	Date:	