



**SAFETY DATA SHEET**

(Date Revised: 3/18/2019; Supersedes 10/5/2016)

Regulation (EC) No 1907/2006 and 2015/8308 (REACH)

**Section 1 Identification of the Substance/Preparation and of the Company/Undertaking.**

**1.1 Product Identifier**

Product Type: Phosphate Investment Casting Liquid  
Trade Names: **Ceramigold Lilac Liquid** **Old Style Special Liquid**  
**PowerPlus Liquid** **Ti21 Liquid**  
**Special Liquid Concentrate Max**  
**Formula 1 Liquid**  
**Polyvest Liquid**

**1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against**

**Product Use:** Investments for dental appliances  
**Uses Advised Against:** For professional use only.

**1.3 Details of the Supplier of the Substance or Mixture**

**Manufacturer:**  
Whip Mix Corporation  
361 Farmington Avenue  
Louisville, Kentucky, USA 40209  
Emergency Telephone Number: (502) 634-1451  
Fax Number: (502) 634-4512

**EU Importer**  
**Whip Mix Europe GmbH**  
Wißstrasse 26 – 28  
D – 44137 Dortmund  
Germany  
+49 (0) 231 / 567 70 8-0

**Importer/ Distributer**

Company name: Ivoclar Vivadent Pty Ltd  
Place: 1-5 Overseas Drive Noble Park North VIC 3174  
Telephone: +61 3 9795 9599 Telefax: Fax: +61 3 9795 9645  
e-mail: info@ivoclarvivadent.com  
**Emergency telephone number:** 13 11 26 Poisons Hotline (24 hours / 7 days)

**Section 2. Hazard Identification.**

**2.1 Classification of the Mixture**

**OSHA/WHMIS/GHS/CLP Classification (1272/2008):**

Health Hazards	Physical Hazards	Environmental Hazards
Not Hazardous	Not Hazardous	Not Hazardous

**2.2 Label Elements:** None Required

**2.3 Other Hazards:** None

**Section 3 Composition/Information on Ingredients**

<b><u>Substance</u></b>	<b><u>CAS No. / EC Number</u></b>	<b><u>%</u></b>	<b><u>CLP/GHS Classification (1272/2008)</u></b>
Amorphous Silica	7631-86-9 / 231-545-4	20-60%	Not hazardous

See Section 16 for full text of GHS Classifications.

The exact percentage of composition has been withheld as a trade secret.

**Section 4. First-Aid Measures.**

**4.1 Description of First Aid Measures**

**Inhalation:** Remove exposed person to fresh air. If irritation or other symptoms persist, get medical attention.

**Eyes:** Flush with large quantities of water, holding the eyelids apart. If irritation persists consult a physician.

**Skin:** No first aid is generally required. Wash skin with soap and water.

**Ingestion:** If swallowed, rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Get medical attention.

**4.2 Most important symptoms and effects, both acute and delayed:** May cause mild eye irritation. Inhalation of mists may cause mucous membrane and upper respiratory tract irritation. Ingestion may cause gastrointestinal irritation and nausea.

**4.3 Indication of any immediate medical attention and special treatment needed:** No immediate medical attention is required.

**Section 5. Fire-Fighting Measures.**

**5.1 Extinguishing Media:** Use media appropriate for surrounding fire.

**5.2 Special Hazards Arising from the Substance or Mixture:** The product is not flammable or combustible.

**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 appropriate protective clothing as described in Section 8. Wash hands after use. Avoid breathing vapors or mists.

**6.2 Environmental Precautions:** Report releases as required by local and national authorities.

**6.3 Methods and Material for Containment and Cleaning Up:** Collect with an inert material and place in appropriate container for disposal or reuse.

**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 vapors or mists. Wear protective clothing as described in Section 8. Wash with soap and water after handling. Keep containers closed when not in use.

**7.2 Conditions for Safe Storage, including Any Incompatibilities:** Store in a cool, dry, well-ventilated area away from incompatible materials. Protect from physical damage.

**7.3 Specific end use(s):**

**Industrial uses:** None identified

**Professional uses:** Investments for dental appliances.

**Section 8. Exposure Controls/Personal Protection.**

**8.1 Control Parameters:**

Amorphous Silica	80 mg/m <sup>3</sup>	TWA OSHA PEL (total dust)
	% Silica	
	10 mg/m <sup>3</sup>	TWA Belgium OEL
	6 mg/m <sup>3</sup>	TWA (Inhalable) UK WEL
	2.4 mg/m <sup>3</sup>	(Respirable) UK WEL

Refer to local regulations for exposure limits not listed above.

**8.2 Exposure Controls:**

**Recommended Monitoring Procedures:** None.

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

### **Personal Protective Measurers**

**Respiratory protection:** If the exposure levels are exceeded and irritation is experienced an approved dust/mist respirator appropriate for the form and concentration of the contaminants should be used. In the USA refer to OSHA regulations, in the EU refer to EN Standards (EN 149 or 405). Selection and use of respiratory equipment must be in accordance with applicable regulations and good industrial hygiene practice.

**Skin protection:** Wear impervious gloves such as neoprene gloves to prevent skin contact. In the EU refer to EN 374.

**Eye protection:** Wear chemical safety goggles if splashing is possible. In the EU refer to EN 166.

**Other:** Impervious clothing as needed to avoid contamination of personal clothing.

## **Section 9. Physical and Chemical Properties.**

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

**Appearance:** Translucent or colored liquid

**Odor:** Odorless.

**Odor threshold:** Not available

**Melting point/freezing point:** 32°F / 0°C

**Flash point:** None

**Flammability (solid, gas):** Not applicable

**Flammable limits: LEL:** Not applicable

**Vapor pressure:** Same as water

**Relative density:** 1.24-1.25 @ 77°F

**Partition coefficient: n-octanol/water:** Not applicable

**Decomposition temperature:** Not available

**Explosive Properties:** Not applicable

**pH:** 8.4-8.8

**Boiling point:** 212°F / 100°C

**Evaporation rate:** Same as water

**UEL:** Not applicable

**Vapor density (air = 1):** Same as water

**Solubility In Water:** Dispersible

**Auto-ignition temperature:** Not available

**Viscosity:** Max 6.0 cps @ 77°F

**Oxidizing Properties:** Not applicable

**9.2 Other Information:** None available

## **Section 10. Stability and Reactivity.**

**10.1 Reactivity:** None known.

**10.2 Chemical stability:** Stable

**10.3 Possibility of hazardous reactions:** None known.

**10.4 Conditions to avoid:** None known.

**10.5 Incompatible materials:** Avoid oxidizing agents.

**10.6 Hazardous decomposition products:** Thermal decomposition may generate sulfur

## **Section 11. Toxicological Information.**

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

#### **Potential Health Effects:**

**Eyes:** May cause mild irritation with redness and tearing.

**Skin:** Prolonged skin contact may cause irritation with redness and drying of the skin.

**Ingestion:** Swallowing may cause gastrointestinal irritation and nausea.

**Inhalation:** Inhalation of mists may cause irritation to the nose, throat and upper respiratory tract.

**Chronic Health Effects:** None known.

**Mutagenicity:** None of the components have been shown to cause mutagenic activity.

**Reproductive Toxicity:** None of the components have been shown to reproductive or developmental toxicity.

**Carcinogenicity:** None of the components of this product are listed as carcinogens by OSHA, IARC or NTP.

#### **Acute Toxicity Data:**

Amorphous Silica: Oral rat LD50 >5000 mg/kg, Inhalation rat LC0 >0.39 mg/L/4 hr, LD50, Dermal rabbit LD50 >2000 mg/kg

## **Section 12. Ecological Data.**

**12.1 Ecotoxicity:**

Amorphous Silica: 96 hr LC50 Danio rerio >10,000 mg/L, 24 hr EC50 daphnia magna >1000 mg/L, 72 hr EC50 Desmodemus subspicatus >10000 mg/L

**12.2 Persistence and degradability:** Biodegradation is not applicable to inorganic substances such as amorphous silica.

**12.3 Bioaccumulative potential:** The product is not expected to bioaccumulate.

**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 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:** Not applicable

**14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** 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:** Not hazardous

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

**California:** This product contains the following substances known to the state of California to cause cancer and/or reproductive toxicity: None.

**International Chemical Inventories**

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

**European Union:** All the components in this product are listed on the EINECS inventory or exempt.

**Japan:** All of the ingredients of this product are listed on or exempt from the Japanese Existing and New Chemical Substances (MITI) List.

**Korea:** All of the components in this product are listed on the Korean Existing Chemicals List (KECL) or exempt.

**Philippines:** All of the components of this product are listed on the Philippines Inventory of Chemicals and Chemical

Substances (PICCS) or exempt.

**United States:** All of the components of this product are listed on the US Toxic Substances Control Act (TSCA) inventory.

**16. Other Information.**

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

CLP/GHS Classification and H Phrases for Reference (See Section 3)

None

Prepared By:

*Denise A. Deeds*

Translated By:

Date: March 18, 2019

Date: