

**SAFETY DATA SHEET**

Regulation (EC) No 1907/2006 and 2020/878 (REACH)

Date Revised: 3/28/22; Supersedes: 10/11/19

Section 1 Identification of the Substance/Preparation and of the Company/Undertaking.**1.1 Product Identifier:****Product Type:** Silica preparation**Trade Names:** Special Liquid Concentrate Plus**1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:****Product Use:** Silica preparation**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

1.4 Emergency Telephone Number:**Transportation Emergencies:** CHEMTREC 1(800) 424-9300 (U.S. and Canada)
International Calls: 1- 703-527-3887 (Collect calls accepted)**Other Product Information:** Infor@whipmix.com**Section 2 Hazard Identification****2.1 Classification of the Substance or 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.****3.1 Substance:** Not applicable**3.2 Mixture:**

Substance	CAS No. / EC Number	%	CLP/GHS Classification (1272/2008)	ATE/ Specific Concentration limits/ M-Factor
Amorphous Silica (Substance with a Union workplace exposure limit)	Proprietary	Proprietary	Not Classified	None

The specific identity and/or concentration of composition has been withheld as a trade secret.

See Section 16 for full text of GHS Classifications.

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, while 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: Immediate medical attention should not be 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.

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 and skin. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly 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: Model stones, plaster and die materials for dental technicians.

Section 8 Exposure Controls/Personal Protection

8.1 Control Parameters:

Amorphous Silica	80 mg/m ³ TWA OSHA PEL % SiO ₂ 10 mg/m ³ TWA Belgium OEL 4 mg/m ³ TWA, Germany MAK (inhalable aerosol) 2.4 mg/m ³ TWA (respirable), 6 mg/m ³ TWA (inhalable) Ireland OEL 2.4 mg/m ³ TWA (respirable), 6 mg/m ³ TWA (inhalable) UK WEL
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Refer to local regulations for exposure limits not listed above.

8.2 Exposure Controls:

Recommended Monitoring Procedures: None.

Appropriate engineering controls: Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits.

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: For prolonged use or in dusty conditions, wear rubber gloves. In the EU refer to EN 374.

Eye/Face protection: Chemical safety goggles if needed to avoid eye contact. 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:

Physical State: Liquid

Appearance: Translucent liquid

Color: Colorless

Odor: Odorless

Odor threshold: Not available

Melting Point/Freezing Point: Not available

Boiling Point/Range: 212°F/ 100°C

pH: 8.4 - 8.8

Flash Point: Not flammable

Evaporation Rate: Same as water

Vapor Pressure: Same as water

Explosive Limits:

LEL: Not applicable **UEL:** Not applicable

Vapor Density: Not available

Relative Vapor Density (at 20°C): No data available

Specific Gravity: No data available

Density/Relative Density: 1.24 - 1.25 @ 77°F/ 25°C

Solubility(ies): Dispersible in water

Octanol/Water Partition Coefficient: No data available

Auto-ignition Temperature: Not applicable

Decomposition Temperature: No data available

Kinematic Viscosity: 6 cps @ 77°F/ 25°C

Particle Characteristics: Not applicable

Flammability (gas, liquid, solid): Not flammable

9.2.1 Information with regard to physical hazard classes: Not applicable

9.2.2 Other Safety Characteristics: Not applicable

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 acids and oxidizing agents.

10.6 Hazardous decomposition products: Thermal decomposition may generate silicon oxides.

Section 11 Toxicological Information.

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eyes: Mists may cause mechanical irritation.

Skin: Mists may cause irritation.

Ingestion: No adverse effects expected for normal, incidental ingestion. Large amounts may cause gastrointestinal blockage and discomfort.

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

shortness of breath.

Chronic Health Effects: None known.

Acute Toxicity Data:

Product: Oral rat LD50 >34,000 mg/kg, LD50, Dermal rabbit LD50 >10,000 mg/kg (Based on a similar product.)

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

Skin Corrosion/Irritation: Based on the available data, the classification criteria are not met.

Serious Eye Damage/Irritation: Based on the available data, the classification criteria are not met.

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

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

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

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

Specific Target Organ Toxicity:

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

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

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

11.2 Information on other hazards: Not applicable

11.2.1 Endocrine disrupting properties: Not applicable

11.2.2 Other information: Not applicable

Section 12 Ecological Data.

12.1 Toxicity:

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

Desmodesmus 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 Endocrine Disrupting Properties: Not applicable

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 Maritime transport in bulk according to IMO instruments: Not applicable

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 the OSHA Hazard Classification.

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.

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

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

International Chemical Inventories

Australia: All of the components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempt.

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

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

Japan: All of the components in this product are listed on the Existing and New Chemical Substance list (ENCS) or exempt.

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

Philippines: All of the components in this product are listed on the Philippines Inventory of Chemical Substances (PICCS) or exempt.

15.2 Chemical Safety Assessment: None required.

Section 16 Other Information.

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

Date Revised: March 28, 2022

SDS Revision History: Updated SDS format to comply with Reg (EU) 2020/878 and updated Section 8.

Supersedes Date: October 11, 2019

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

None.

Key literature references and sources for data: ECHA database, GESTIS, eChemPortal, TOXNET

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP): Calculation method

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Translated By:

Date: March 28, 2022

Date: