



SAFETY DATA SHEET

(Revision: 10/29/18)

1. Identification.

- **Product Type:** Silica
- **Trade Names:** Dazzle PS
- **Product Use:** Polishing Compound for Dental appliances.
- **Company:** *Whip Mix Corporation*
361 Farmington Ave.
Louisville, Kentucky, USA 40209
Emergency Telephone Number: (502)-637-1451
Fax Number: (502) 634-4512

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)

2. Hazard Identification

OSHA Hazcom 2012 Classification:

Health Hazards	Physical Hazards
Carcinogen Category 1A Specific Target Organ Toxicity – Repeat Exposure Category 1	Not Hazardous

Labeling:

Danger!



May cause cancer if inhaled.
 Causes damage to lungs through prolonged or repeated exposure by inhalation.

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves and eye protection.
- IF exposed or concerned: Get medical attention.
- Get medical attention if you feel unwell.
- Store locked up.

Substance	CAS No.	%
Purpose of contents and container in accordance with local and national regulations.		
Diatomaceous Earth	68855-54-9	0-100
3. Composition/Information on Ingredients		
Crystalline Silica, Cristobalite	14464-46-1	35-50

The exact concentration is being withheld as a trade secret.

4. 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: May cause gastrointestinal discomfort. If swallowed, drink 1 or 2 glasses of water to dilute. Never give

anything by mouth to an unconscious or convulsing person. Get medical attention if large amount is swallowed and symptoms develop.

Most important symptoms/effects, acute and delayed: May cause mechanical eye irritation. Inhalation of dust may cause mucous membrane and respiratory irritation. Prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis), increase the risk of lung cancer, and may cause damage to the kidneys and immune system. Risk of cancer depends on duration and level of exposure.

Indication of Any Immediate Medical Attention and Special Treatment Needed: Immediate medical attention is not required.

5. Fire-Fighting Measures.

Suitable (and unsuitable) Extinguishing Media: Use media appropriate for surrounding fire.

Specific Hazards Arising From the Chemical: The product does not burn.

Special Protective Equipment and Precautions for Fire-fighters: Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus.

6. Accidental Release Measures.

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate protective clothing as described in Section 8.

Environmental Hazards: Report releases as required by local and national authorities.

Methods and Materials for Containment and Cleaning up: Collect using dustless method (HEPA vacuum or wet method) and place in appropriate container for use. Do not use compressed air.

7. Handling and Storage.

Precautions for Safe Handling: Avoid contact with eyes. Do not breathe dust. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation and proper dust collection methods to keep exposure level below occupational exposure limits. Silica dust may be in the air without a visible dust cloud. Practice good housekeeping to prevent accumulation of dust in work areas. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

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

8. Exposure Controls/Personal Protection

Occupational Exposure Limits:

Diatomaceous Earth	$\frac{80 \text{ mg/m}^3}{\% \text{ Silica} + 2}$ TWA OSHA PEL (respirable fraction)
Crystalline Silica Cristobalite	0.05 mg/m ³ TWA OSHA PEL (respirable dust) 0.025 mg/m ³ TWA ACGIH TLV (respirable fraction)

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

Respiratory protection: If the exposure limits are exceeded a NIOSH approved particulate respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 or other applicable regulations and good industrial hygiene practice.

Skin protection: For prolonged use or in dusty conditions, wear rubber gloves.

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

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

9. Physical and Chemical Properties.

Appearance: Light pink to white powder.

Odor: Odorless.

Odor threshold: Not applicable

Melting point/freezing point: >1300°C (>2372°F)

pH: 10 (10% suspension)

Boiling point: Not applicable

Flash point: Not applicable
Flammability (solid, gas): Not applicable
Flammable limits: LEL: Not applicable
Vapor pressure: Not applicable
Relative density: 2.3
Partition coefficient: n-octanol/water: Not available
Decomposition temperature: >1300°C (>2372°F)
Explosive Properties: Not applicable

Evaporation rate: Not applicable
UEL: Not applicable
Vapor density (air = 1): Not applicable
Solubility In Water: Insoluble- <1%
Auto-ignition temperature: Not applicable
Viscosity: Not applicable
Oxidizing Properties: Not applicable

10. Stability and Reactivity.

Reactivity: None known.
Chemical stability: Stable
Possibility of hazardous reactions: None known.
Conditions to avoid: Avoid unintentional contact with water.
Incompatible materials: Avoid acids, caustic solutions, and oxidizing agents.
Hazardous decomposition products: Crystalline silica will dissolve in hydrofluoric acid and produce silicone tetrafluoride.

11. Toxicological Information.

Potential Health Effects:

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

Skin: Dust may cause irritation.

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

Inhalation: Inhalation of dust may cause irritation to the nose, throat and upper respiratory tract with coughing and shortness of breath.

Chronic Health Effects: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. Prolonged exposure may also cause damage to the kidneys and immune system.

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

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

Carcinogenicity: Crystalline silica Cristobalite is listed as "Carcinogenic to Humans" (Group 1) by IARC and "Known to be a Human Carcinogen" by NTP. None of the other components of this product are listed as carcinogens by OSHA, IARC or NTP.

Acute Toxicity Data:

Diatomaceous Earth: Oral rat LD50 > 2000 mg/kg; Inhalation rat LC50 > 2.6 mg/L/4 hr (maximum attainable concentration)

Crystalline Silica Cristobalite: No toxicity data available.

12. Ecological Data.

Ecotoxicity:

Diatomaceous Earth: 96 hr LC50 *Oncorhynchus mykiss* >100 mg/L, 48 hr LD50 *daphnia magna* >100 mg/L, 72 hr EC50 *Desmodesmus subspicatus* >100 mg/L

Persistence and degradability: Biodegradation is not applicable to inorganic substances.

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: Not required.

13. Disposal Considerations.

Dispose in accordance with all national and local regulations.

14. Transport Information.

US DOT: Not Regulated
Canada TDG: Not Regulated
IMDG: Not Regulated
IATA/ICAO: Not Regulated

Special precautions: Not applicable

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

15. Regulatory Information.

Safety, health, and environmental regulations specific for the product in question

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: See OSHA Hazard Classification in Section 2.

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 TSCA inventory.

California: This product contains the following substances known to the state of California to cause cancer and/or reproductive toxicity:

Crystalline Silica	14464-46-1	35-50%	Cancer
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Canadian Regulations

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

International Chemical Inventories

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

China: All of the components in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC) or exempt.

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

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

New Zealand: All of the components in this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempt.

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

Taiwan: All of the components of this product are listed on the Taiwan National Existing Chemical Substance Inventory (NECSI).

16. Other Information.

HMIS Rating: Health 1* Flammability 0 Physical Hazard 0

Hazard: 4-Severe; 3-Serious; 2-Moderate; 1-Slight; 0-Minimum

SDS Revision History: Updated Section 3, 8, 9, 11, 12, and 15.
Date of last revision: February 9, 2015

This SDS conforms to US OSHA Hazcom 2012 (29 CFR1910.1200) and Canada WHMIS 2015.

This product has been classified in accordance with the applicable mixture rules.

Prepared By: <i>Denise A. Deeds</i>	Translated By:
Date: October 29, 2018	Date: