



# SAFETY DATA SHEET

(Revision: 2/9/2015)

## 1. Identification.

- **Product Type:** Silica
- **Trade Names:** Dazzle P
- **Product Use:** Polishing Compound for Dental appliances.
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- **Company** Whip Mix Corporation  
: 361 Farmington Avenue  
Louisville, Kentucky, USA 40209  
Emergency Telephone Number: (502) 634-1451  
Fax Number: (502) 634-4512  
**Transportation** CHEMTREC 1(800) 424-9300 (U.S. and Canada)  
**Emergencies:** International Calls: 1- 703-527-3887 (Collect calls accepted)

## 2. Hazard Identification

**OSHA Hazcom 2014 Classification:**

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

### Labeling:

Danger!



May cause cancer if inhaled.

Causes damage to lung 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.

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

## 3. Composition/Information on Ingredients.

<u>Substance</u>	<u>CAS No.</u>	<u>%</u>
Diatomaceous Earth	68855-54-9	0 – 100
Crystalline Silica, Quartz	14808-60-7	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 eye irritation. Inhalation of dust may cause mucous membrane and respiratory irritation. Prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis) and increase the risk of lung cancer. 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. 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	$80 \text{ mg/m}^3$ % Silica + 2	TWA PEL (respirable fraction)
Crystalline Silica Quartz	$10 \text{ mg/m}^3$ % Silica + 2	TWA PEL (respirable fraction)
	$30 \text{ mg/m}^3$ % Silica + 2	TWA PEL (total dust)
	$0.025 \text{ mg/m}^3$	TWA 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:** Fine white powder.

**Odor:** Odorless.

**Odor threshold:** Not applicable

**pH:** Not available

**Melting point/freezing point:** Not available

**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:** Not available  
**Explosive Properties:** Not applicable

**Evaporation rate:** Not applicable  
**UEL:** Not applicable  
**Vapor density (air = 1):** Not applicable  
**Solubility In Water:** Insoluble  
**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 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.

**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.

**Carcinogenicity:** Crystalline silica quartz 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 Quartz: Oral rat LD50 >22,500 mg/kg

#### 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

Crystalline Silica Quartz: 72 hr LC50 Carp - >10,000 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:** Chronic Health

**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	14808-60-7	35-50%	Cancer
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#### Canadian Regulations

**Canadian Workplace Hazardous Materials Information System (WHMIS):** Class D Division 2A (Very Toxic material causing other toxic effects)

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

This SDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the SDS contains all of the information required by the CPR.

#### 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 Reactivity 0 Other 0  
*Hazard: 4-Severe; 3-Serious; 2-Moderate; 1-Slight; 0-Minimum*

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