



SAFETY DATA SHEET

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

Date Revised: 3/22/22; Supersedes Date: 2/9/15

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

1.1 Product Identifier:

Product Type: Silica

Trade Names: Dazzle PS

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

Product Use: Polishing Compounds 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

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:

CLP/GHS Classification (1272/2008):

Health Hazards	Physical Hazards	Environmental Hazards
Specific Target Organ Toxicity – Repeat Exposure Category 1 (H372)	Not Hazardous	Not Hazardous

2.2 Label Elements:

Danger!



Contains Crystalline silica, quartz

H372 May cause damage to lungs through prolonged or repeated exposure by inhalation.

Prevention

P260 Do not breathe dust.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Response

P314 Get medical attention if you feel unwell.

Disposal

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

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
Diatomaceous Earth (Substance with a Union workplace exposure limit)	68855-54-9 / 272-489-0	0 – 100	Not Classified	None
Crystalline Silica, Quartz	14808-60-7 / 238-878-4	35-50	STOT RE 1 H372	None

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: 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.

4.2 Most important symptoms and effects, both acute and delayed: May cause eye irritation. Inhalation of dust may cause mucous membrane and respiratory irritation. Swallowing large amounts may cause gastrointestinal blockage and discomfort.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention is required for ingestions.

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 does not burn.

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.

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

6.3 Methods and Material 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.

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. 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.

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: Polishing Compounds for dental appliances.

Section 8 Exposure Controls/Personal Protection

8.1 Control Parameters:

Diatomaceous Earth	0.3 mg/m ³ TWA German MAK (respirable aerosol) 1.2 mg/m ³ TWA Ireland OEL (respirable fraction)
Crystalline Silica Quartz	0.25 mg/m ³ TWA ACGIH TLV (respirable fraction) 0.1 mg/m ³ TWA France OEL(respirable aerosol) 0.075 mg/m ³ TWA Netherlands OEL (respirable dust) 0.1 mg/m ³ TWA Belgium OEL (respirable) 0.1 mg/m ³ TWA Ireland OEL (respirable fraction) 0.05 mg/m ³ TWA Spain OEL (respirable fraction) 0.1 mg/m ³ TWA Sweden OEL(respirable aerosol)

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.

Individual Protection Measures: Refer to Reg (EU) 2016/425

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 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 impervious 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.

Environmental Exposure Control: This product is not hazardous to the environment. No specific controls are required.

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: Solid

Appearance: Fine white powder

Color: White

Odor: Odorless

Melting Point/Freezing Point: No data available

Boiling Point/Range: Not applicable

pH: 9-10.5 (when mixed with water)

Flash Point: Not applicable

Evaporation Rate: Not applicable

Vapor Pressure: Not applicable

Explosive Limits:

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

Vapor Density: Not applicable

Relative Vapor Density (at 20°C): Not applicable

Specific Gravity: No data available

Density/Relative Density: 2.3

Solubility(ies): Insoluble in water

Octanol/Water Partition Coefficient: Not applicable

Auto-ignition Temperature: Not applicable

Decomposition Temperature: Not applicable

Kinematic Viscosity: Not applicable

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: Avoid unintentional contact with water. Product will harden and produce heat.

10.5 Incompatible materials: Avoid acids and oxidizing agents.

10.6 Hazardous decomposition products: Crystalline silica will dissolve in hydrofluoric acid and produce silicone tetrafluoride.

Section 11 Toxicological Information.

11.1 Information on Toxicological Effects:

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: Repeated or prolonged exposure to Crystalline Silica Quartz may damage lungs.

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

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 are listed as a carcinogen by 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: 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.

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:

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

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

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: No data available

12.5 Results of PBT and vPvB assessment: Not required.

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
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:

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)

15.2 Chemical Safety Assessment: None required.

Section 16 Other Information.

Date Revised: March 22, 2022

SDS Revision History: Updated Section 2 label elements and SDS to new format Reg (EU) 2020/878.

Supersedes Date: February 9, 2015

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

STOT RE 1 Specific Target Organ Toxicity Repeat Exposure Category 1

H372 Causes damage to organs through prolonged or repeated exposure.

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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