

**SAFETY DATA SHEET**

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

Date Revised: 3/25/22; Supersedes: 10/11/19

**Section 1 Identification of the Substance/Preparation and of the Company/Undertaking.****1.1 Product Identifier:****Product Type:** Additive to increase hardness of Gypsum used by dental laboratory.**Trade Names:** Gypsum Hardener**1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:****Product Use:** Additive to increase hardness of Gypsum used by dental laboratory**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:** CHEMTRAC 1(800) 424-9300 (U.S. and Canada)  
International Calls: 1- 703-527-3887 (Collect calls accepted)

**Other Product Information:** [Infor@whipmix.com](mailto:Infor@whipmix.com)

**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.****3.1 Substance:** Not applicable**3.2 Mixture:**

Substance	CAS No. / EC Number	%	CLP/GHS Classification (1272/2008)	ATE/ Specific Concentration limits/ M-Factor
Colloidal Silica (Substance with a Union workplace exposure limit)	7631-86-9 / 231-545-4	40-60%	Not Classified	None
Ethanol	64-17-5 / 200-578-6	3-7%	Flam Liq. 2 H225 Eye Irrit. 2 H319	SCL: Eye Irrit. 2: ≥50%
Methanol	67-56-1 / 200-659-6	<0.5%	Flam Liq. 2 H225 Acute Tox. 3 H301 Acute Tox. 3 H311	ATE Oral: 100 mg/kg ATE Inhalation, vapors: 3 mg/L ATE Dermal: 0.5 mg/kg

			Acute Tox. 3 H331 STOT SE 1 H370	SCL: STOT SE 1: ≥10% SCL: STOT SE 2: 3-<10%
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**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:** No adverse effects expected. If vapors are inhaled and irritation is experienced, get medical attention.  
**Eyes:** Flush eyes with large quantities of water, while holding the eyelids apart. If irritation persists, consult a physician.

**Skin:** No first aid is required. Wash skin with soap and water. If irritation develops, get medical attention.

**Ingestion:** No adverse effects expected. If large amounts are swallowed or if irritation or discomfort occurs, get medical attention.

**4.2 Most Important symptoms and effects, both acute and delayed:** May cause eye irritation. Prolonged skin contact may cause irritation. Inhalation of vapors may cause irritation to the nose, throat, and upper respiratory tract. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**4.3 Indication of any immediate medical attention and special treatment needed:** Immediate medical attention is not required.

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

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

**5.2 Special Hazards Arising from the Substance or Mixture:** None known.

**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 equipment. Avoid contact with eyes.

**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 absorbent and place into an appropriate container for disposal. Wash spill site with water.

**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. Wash thoroughly after handling. Keep containers closed when not in use.

**7.2 Conditions for Safe Storage, Including any Incompatibilities:** Store as directed on package insert.

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

**Industrial uses:** None identified

**Professional uses:** Additive to increase hardness of Gypsum used by dental laboratory

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

##### **8.1 Control Parameters:**

Colloidal Silica (as silica, amorphous)	80 mg/m <sup>3</sup> TWA OSHA PEL % SiO <sub>2</sub> 10 mg/m <sup>3</sup> TWA Belgium OEL 4 mg/m <sup>3</sup> TWA, Germany MAK (inhalable aerosol)
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	2.4 mg/m <sup>3</sup> TWA (respirable), 6 mg/m <sup>3</sup> TWA (inhalable) Ireland OEL 2.4 mg/m <sup>3</sup> TWA (respirable), 6 mg/m <sup>3</sup> TWA (inhalable) UK WEL	
Ethanol	1000 ppm TWA OSHA PEL 1000 ppm STEL ACGIH TLV 1000 ppm TWA Belgium OEL 1000 ppm TWA, 5000 ppm STEL France OEL 200 ppm TWA, 800 ppm STEL Germany MAK 1000 ppm STEL Ireland OEL 1000 ppm STEL Spain OEL 500 ppm TWA, 1000 ppm STEL Sweden OEL 260 mg/m <sup>3</sup> TWA, 1900 mg/m <sup>3</sup> Netherland OEL 1000 ppm TWA UK WEL	
Methanol	200 ppm TWA, 250 ppm STEL ACGIH TLV (skin) 200 ppm TWA OSHA PEL 200 ppm TWAL EU OEL 200 ppm TWA, 250 ppm STEL Belgium OEL (skin) 200 ppm TWA France OEL 100 ppm TWA, 200 ppm STEL Germany MAK (skin) 200 ppm TWA Ireland OEL 200 ppm TWA, 250 ppm STEL Spain OEL (skin) 200 ppm TWA, 250 ppm STEL Sweden OEL 133 mg/m <sup>3</sup> TWA Netherland OEL 200 ppm TWA, 250 ppm STEL 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 maintain exposure below occupational exposure limits.

### **Personal Protective Measures**

**Respiratory protection:** None normally required. 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:** None required. Wash hands thoroughly after handling.

**Eye/Face protection:** Wear safety glasses if contact is possible. In the EU refer to EN 166.

**Other:** Protective clothing as required to avoid prolonged skin contact.

## 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:** 2.5 -3.0

**Flash Point:** Not flammable

**Evaporation Rate:** Not available

**Vapor Pressure:** Not available

**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:** 1.0 -1.2 @ 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:** Max 6.0 cps @ 77°F/ 25°C

**Particle Characteristics:** Not applicable

**Flammability (gas, liquid, solid):** Not flammable

<b>9.2.1 Information with regard to physical hazard classes:</b>	Not applicable
<b>9.2.2 Other Safety Characteristics:</b>	Not applicable
<b>Section 10 Stability and Reactivity.</b>	
<p><b>10.1 Reactivity:</b> Not reactive.</p> <p><b>10.2 Chemical stability:</b> Stable.</p> <p><b>10.3 Possibility of hazardous reactions:</b> Not expected to be reactive.</p> <p><b>10.4 Conditions to avoid:</b> None known.</p> <p><b>10.5 Incompatible materials:</b> Avoid oxidizing agents and acids.</p> <p><b>10.6 Hazardous decomposition products:</b> None known.</p>	
<b>Section 11 Toxicological Information.</b>	
<b>11.1 Information on Toxicological Effects:</b>	
<p><b>Potential Health Effects:</b></p> <p><b>Eyes:</b> Test data shows this product may cause mild irritation with redness and tearing</p> <p><b>Skin:</b> Test data shows this product may cause mild skin irritation.</p> <p><b>Ingestion:</b> Swallowing large amounts may cause gastrointestinal irritation, nausea, vomiting and diarrhea.</p> <p><b>Inhalation:</b> No adverse effects are expected under normal use conditions.</p> <p><b>Chronic Health Effects:</b> None known.</p>	
<p><b>Acute Toxicity Data:</b></p> <p>Product: Oral rat LD50 &gt;34,000 mg/kg, Dermal rabbit LD50 &gt;10,000 mg/kg</p>	
<p><b>Skin Corrosion/Irritation:</b> Based on the available data, the classification criteria are not met.</p> <p><b>Serious Eye Damage/Irritation:</b> Based on the available data, the classification criteria are not met.</p> <p><b>Respiratory or Skin Sensitization:</b> Based on the available data, the classification criteria are not met.</p> <p><b>Germ Cell Mutagenicity:</b> Based on the available data, the classification criteria are not met.</p> <p><b>Carcinogenicity:</b> None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, or EU CLP.</p> <p><b>Reproductive Toxicity:</b> Based on the available data, the classification criteria are not met.</p> <p><b>Specific Target Organ Toxicity:</b></p> <p><b>Single Exposure:</b> Based on the available data, the classification criteria are not met.</p> <p><b>Repeated Exposure:</b> Based on the available data, the classification criteria are not met.</p> <p><b>Aspiration Hazards:</b> Based on the available data, the classification criteria are not met.</p>	
<b>11.2 Information on other hazards:</b> Not applicable	
<b>11.2.1 Endocrine disrupting properties:</b> Not applicable	
<b>11.2.2 Other information:</b> Not applicable	
<b>Section 12 Ecological Data.</b>	
<p><b>12.1 Toxicity:</b></p> <p>Colloidal Silica: 96 hr LC50 Danio rerio &gt;10,000 mg/L, 24 hr EC50 daphnia magna &gt;1000 mg/L, 72 hr EC50 Desmodesmus subspicatus &gt;10000 mg/L</p> <p>Ethanol: 96 hr LC50 14.2 mg/L, 48 hr LC50 Ceriodaphnia dubia 5012 mg/L, 72 hr EC50 Chlorella vulgaris 275 mg/L</p>	
<p><b>12.2 Persistence and degradability:</b> No data available.</p> <p><b>12.3 Bioaccumulative potential:</b> Ethanol has a BCF of 3. This suggests the potential for bioconcentration in aquatic organisms is low.</p>	
<p><b>12.4 Mobility in soil:</b> Ethanol is highly mobile in soil.</p> <p><b>12.5 Results of PBT and vPvB assessment:</b> Components do not meet the criteria of PBT or vPvB.</p>	
<p><b>12.6 Endocrine Disrupting Properties:</b> Not applicable</p> <p><b>12.7 Other adverse effects:</b> Not required.</p>	

## 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:** **WARNING:** This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects or other reproductive harm and Methyl Isobutyl Ketone, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### 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 Canadian Domestic Substances List (DSL) 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.

**Philippines:** All of the components of this product are listed on the Philippines Inventory of Chemicals and 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 25, 2022

**SDS Revision History:** Updated SDS format to comply with Reg (EU) 2020/878 and updated Section 3, 8, and 15.

**Supersedes Date:** October 11, 2019

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

Acute Tox. 3 Acute Toxicity Category 3

Flam Liq 2 Flammable Liquid Category 2

STOT SE 1 Specific Target Organ Toxicity Single Exposure Category 1

STOT SE 2 Specific Target Organ Toxicity Single Exposure Category 2

H225 Highly flammable liquid and vapor

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs.

H371 May cause damage to organs.

**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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Date: March 25, 2022	Date: