



SAFETY DATA SHEET

(Revision: 1/16/2019; Supersedes: 4/21/2015)

Regulation (EC) No 1907/2006 (REACH)

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: CHEMTREC 1(800) 424-9300 (U.S. and Canada)
International Calls: 1- 703-527-3887 (Collect calls accepted)

Other Product Information: www.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.

<u>Substance</u>	<u>CAS No. / EC Number</u>	<u>%</u>	<u>CLP/GHS Classification (1272/2008)</u>
Colloidal Silica	7631-86-9 / 231-545-4	40-60%	Not hazardous
Ethanol	64-17-5 / 200-578-6	3-7%	Flam Liq 2 H225

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, 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 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
Ethanol	1000 ppm TWA OSHA PEL 1000 ppm STEL ACGIH TLV 1000 ppm TWA Belgium OEL 1000 ppm TWA, 5000 ppm STEL France OEL 500 ppm TWA, 1000 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 ³ TWA Netherland OEL 1000 ppm TWA 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 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

Appearance: Translucent liquid

Odor: No odor

Odor threshold: Not available

Melting point/freezing point: Not available

Flash point: Not flammable

Flammability (solid, gas): Not applicable

Flammable limits: LEL: Not flammable

Vapor pressure: Not available

Relative density: 1.0 -1.2 @ 77°F

Partition coefficient: n-octanol/water: Not available

Decomposition temperature: Not available

Explosive Properties: Not applicable

pH: 2.5 -3.0

Boiling point: 212°F (100°C)

Evaporation rate: Not available

UEL: Not applicable

Vapor density (air = 1): Not available

Solubility In Water: Dispersible

Auto-ignition temperature: Not applicable

Viscosity: Max 6.0 cps @ 77°F

Oxidizing Properties: Not applicable

9.2 Other Information: None available

Section 10 Stability and Reactivity.

10.1 Reactivity: Not reactive.

10.2 Chemical stability: Stable.

10.3 Possibility of hazardous reactions: Not expected to be reactive.

10.4 Conditions to avoid: None known.

10.5 Incompatible materials: Avoid oxidizing agents and acids.

10.6 Hazardous decomposition products: None known.

Section 11 Toxicological Information.

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eyes: Test data shows this product may cause mild irritation with redness and tearing

Skin: Test data shows this product may cause mild skin irritation.

Ingestion: Swallowing large amounts may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation: No adverse effects are expected under normal use conditions.

Chronic Health Effects: None known.

Acute Toxicity Data:

Product: Oral rat LD50 >34,000 mg/kg, Dermal rabbit LD50 >10,000 mg/kg

Section 12 Ecological Data.**12.1 Ecotoxicity:**

Colloidal Silica: 96 hr LC50 Danio rerio >10,000 mg/L, 24 hr EC50 daphnia magna >1000 mg/L, 72 hr EC50 Desmodemus subspicatus >10000 mg/L

Ethanol: 96 hr LC50 14.2 mg/L, 48 hr LC50 Ceriodaphnia dubia 5012 mg/L, 72 hr EC50 Chlorella vulgaris 275 mg/L

12.2 Persistence and degradability: No data available.**12.3 Bioaccumulative potential:** Ethanol has a BCF of 3. This suggests the potential for bioconcentration in aquatic organisms is low.**12.4 Mobility in soil:** Ethanol is highly mobile in soil.**12.5 Results of PBT and vPvB assessment:** Components do not meet the criteria of PBT or vPvB.**12.6 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 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.**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: Isopropanol, Methanol, and Methyl Isobutyl Ketone**SARA Section 311/312 (40 CFR 370) Hazard Categories:** Not hazardous**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.**California:** This product contains the following substances known to the state of California to cause cancer and/or reproductive toxicity:

Methanol	67-56-1	<0.1%
Methyl Isobutyl Ketone	108-10-1	<0.1%

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.

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

16. Other Information.

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

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

Flam Liq 2 Flammable Liquid Category 2

H225 Highly flammable liquid and vapor

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Date: