

**Section 1 - Identification**

- 1.1 Product Identifier:** Ultra Cal 30 Gypsum Cement
- 1.2 General Use:** Low expansion tooling cement
- 1.3 Manufacturer:** The Monster Makers, Inc.,  
13597 West Parkway Rd., Cleveland, OH 44135  
Phone: (216) 671-8700  
[sales@monstermakers.com](mailto:sales@monstermakers.com)
- 1.4 Emergency Contact:** Chem-Tel  
Domestic: 800-255-3924 International 813-248-0585

**Section 2 - Hazards**

- 2.1 Classification of the substance or mixture:** Not classified
- 2.2 GHS Label elements, including precautionary statements**



**Pictograms:**

**Signal Word:** Danger

General

**Hazard Statement:** Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause cancer.

**Precautionary Statements:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/clothing and eye/face protection.

If exposed or concerned: Get medical advice/attention.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Store locked up.

Dispose of in accordance with local, state, and federal regulations.

**Hazards not otherwise classified (HNOC) or not covered by GHS**

**Section 3 - Composition / Information on Ingredients**

**3.1 Substances**

Name	CAS#	% by Weight
Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1)	26499-65-0	>90
Portland Cement	65997-15-1	<10
<b>Impurities</b>		
Crystalline Silica (Quartz)	14808-60-7	<0.5

All concentrations are in percent by weight unless ingredient is a gas.

Raw materials in this product contain respirable crystalline silica as an impurity. The weight percent of respirable crystalline silica found in this product is 0.5%. Exposures to respirable crystalline silica during the normal use of this product must be determined by workplace hygiene testing.

**Section 4 - First Aid Measures****4.1 Description of first aid measures**

**Inhalation:** Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.

**Eye Contact:** Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.

**Skin Contact:** Contact with wet or dry product: Wash area with cold running water immediately. Open sores or cuts should be thoroughly flushed and covered with suitable dressings.

**Ingestion:** Rinse mouth with water and give one or two glass/es of water or milk. Get medical treatment immediately. If the victim is unconscious, do not give anything by mouth.

**4.2 Most important symptoms and effects, both acute and delayed:** Dust may irritate throat and respiratory system and cause coughing. May cause serious chemical burns to the skin. May cause chemical eye burns. Permanent eye damage including blindness could result.**4.3 After first aid, get appropriate in-plant, paramedic, or community medical support.****Section 5 - Fire-Fighting Measures**

**5.1 Extinguishing Media:** Use fire-extinguishing media appropriate for surrounding materials

**5.2 Special hazards arising from the substance or mixture:** Not a fire hazard

**5.3 Advice for firefighters:** Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials. Cool material exposed to heat with water spray and remove it if no risk is involved.

**Section 6 - Accidental Release Measures**

**6.1 Personal Precautions, protective equipment and emergency procedures:**

See section 8.

**6.2 Environmental precautions:** Avoid discharge to drains, sewers, and other water systems.



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**6.3 Methods and materials for containment and cleaning up:** Vacuum up the spilled material. Vacuums used for this purpose should be equipped with HEPA filters. Containers must be labeled. Collect in approved containers and seal securely. For waste disposal, see Section 13 of the SDS

#### Section 7 - Handling and Storage

- 7.1 Precautions for safe handling:** Minimize dust production when mixing, or opening and closing bags. Avoid inhalation of dust. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene practices and use appropriate lifting techniques.
- 7.2 Conditions for safe storage, including any incompatibilities:**  
Store in a cool, dry, well-ventilated place. Store away from incompatible materials. Avoid contact with acids, water, and moisture.

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

**8.1 Control Parameters:**

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0)	PEL	5 mg/m <sup>3</sup>	Respirable Fraction
		15 mg/m <sup>3</sup>	Total Dust
Portland Cement (CAS 65997-15-1)	PEL	5 mg/m <sup>3</sup>	Respirable fraction
		15 mg/m <sup>3</sup>	Total Dust

**US. OSHA Table Z-3 (29 CFR 1910.1000)**

Components	Type	Value	Form
Portland Cement (CAS 65997-15-1)	TWA	50 mppcf	
<b>Impurities</b>			
Crystalline Silica (Quartz) (CAS 14808-60-7)	TWA	0.3 mg/m <sup>3</sup>	Total dust.
		0.1 mg/m <sup>3</sup>	Respirable.
		2.4 mppcf	Respirable.

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0)	TWA	10 mg/m <sup>3</sup>	Inhalable fraction
Portland Cement (CAS 65997-15-1)	TWA	1mg/m <sup>3</sup>	Respirable fraction
<b>Impurities</b>			
Crystalline Silica (Quartz) (CAS 14808-60-7)	TWA	.025 mg/m <sup>3</sup>	Respirable fraction

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value	Form
Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0)	TWA	5 mg/m <sup>3</sup>	Respirable
		10mg/m <sup>3</sup>	Total
Portland Cement (CAS 65997-15-1)	TWA	5 mg/m <sup>3</sup>	Total
Impurities			
Crystalline Silica (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m <sup>3</sup>	Respirable dust

**Exposure controls:** Provide sufficient ventilation for operation causing dust formation. Observe occupational exposure limits and minimize the risk of exposure.

**Respiratory Protections:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), and approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

**Hand Protection:** Impervious (chemical-/oil-proof) protective gloves

**Eye Protection:** Safety glasses with side shield. (Goggle type if necessary)

**Other Protective Clothing/Equipment:**

Normal work clothing (long sleeved shirts and long pants) is recommended

**Comments:** Wash your hands and face thoroughly and gargle after handling the material.

Section 9 - Physical and Chemical Properties
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**9.1 Information on basic physical and chemical properties:**

<b>Appearance:</b> Powder, White <b>Odor/Threshold:</b> Almost odorless <b>pH:</b> 11 - 13 <b>Melting Point/Freezing Point:</b> N/A <b>Low/High Boiling Point:</b> N/A <b>Flash point:</b> N/A <b>Evaporation Rate :</b> N/A <b>Flammability:</b> N/A <b>UEL/LEL:</b> N/A	<b>Vapor Pressure:</b> N/A <b>Vapor Density (Air=1):</b> N/A <b>Specific Gravity (H<sub>2</sub>O=1, at 4C):</b> N/A <b>Water Solubility:</b> 0.21 g/100 g (H <sub>2</sub> O) <b>Partition Coefficient:</b> N/A <b>Auto-Ignition Temperature:</b> N/A <b>Decomposition Temperature:</b> 2642F (1450 C) <b>Viscosity:</b> N/A <b>% Volatile:</b> N/A
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Section 10 - Stability and Reactivity
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**10.1 Reactivity:** Stable

**10.2 Chemical Stability:** No self-reactivity

**10.3 Possibility of hazardous reactions:** Hazardous polymerization does not occur.

**10.4 Conditions to avoid:** Contact with incompatible materials. Exposure to moisture. When mixed with water this product can become very hot, Encasing or making moulds of any body part can cause serious burns that may require surgical removal of affected tissue and even amputation of encased body part.



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**105. Incompatible Materials:** Acids. Exposure to water and acids must be supervised because the reactions are vigorous and produce large amounts of heat. Crystalline silica in contact with powerful oxidizing agents, such as fluorine, chlorine trifluoride and oxygen difluoride, may cause fires. Crystalline silica will dissolve in hydrofluoric acid and produce a corrosive gas, silicon tetrafluoride.

**10.6 Hazardous Decomposition Products:** Calcium oxides. Sulfur oxides.

### Section 11 - Toxicological Information

#### 11.1 Information on Toxicological Effects:

**Skin Corrosion/Irritation:** Exposure to dry product may cause drying of the skin and mild irritation, or more significant effects from the aggravation of other conditions. Wet product is caustic ( $\text{pH} \geq 12$ ) and dermal exposure may cause more severe skin effects, including thickening, cracking or fissuring of the skin. Prolonged exposure can cause severe skin damage in the form of chemical (caustic) burns. Some individuals who are exposed to wet or dry product may exhibit an allergic response, which can result in symptoms ranging from mild rashes to severe skin ulcers.

**Serious Eye Damage/Irritation:** Exposure to airborne dust may cause immediate or delayed irritation to the eyes. Depending on the level of exposure, effects may range from redness to chemical burns and blindness.

**Respiratory/Skin Sensitization:** Trace amounts of Cr(VI) compounds from Portland Cement may cause allergic skin reaction even after one exposure.

**Germ Cell Mutagenicity:** N/A

**Carcinogenicity:** Repeated and prolonged exposures to high levels of respirable crystalline silica may cause cancer.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline silica (Quartz) (CAS 14808-60-7) 1 Carcinogenic to humans.

#### NTP Report on Carcinogens

Crystalline silica (Quartz) (CAS 14808-60-7) Known to be Human Carcinogen

**Reproductive Toxicity:** Not expected to be a reproductive hazard.

**Specific Target Organ Toxicity - Single Exposure:** N/A, none expected

**Specific Target Organ Toxicity - Repeated Exposure:** N/A, none expected

**Potential Health Effects - Miscellaneous:** Prolonged and routine inhalation of high levels of respirable crystalline silica particles can lead to the lung disease known as silicosis. Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica. Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

**Section 12 - Ecological Information**

**12.1 Ecotoxicity:** This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. Large amounts of the product may affect the pH-factor in water with possible risk of harmful effects to aquatic organisms.

Components	Species	Test Result
Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) > 1970 mg/l, 96 hours

**12.2 Persistence and Degradability:**

Calcium sulfate dissolves in water forming calcium and sulfate ions.

**12.3 Bioaccumulative Potential:** N/A, not expected

**12.4 Mobility in Soil:** N/A

**13 - Disposal Considerations****13.1 Waste Treatment Methods:**

Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly

**Section 14 - Transport Information**

**14.1 UN Number:** N/A

**14.2 UN Proper Shipping Name:** N/A

**14.3 Transport Hazard Class(es):** N/A

**14.4 Packing Group:** N/A

**14.5 Environmental Hazards:** N/A

**Section 15 - Regulatory Information****15.1 Safety Health and environmental regulation/legislation specific for the substance or mixture:  
In the United States (EPA Regulations):**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200 (OSHA) and 8 CCR 5194 (Cal/OSHA)

**TSCA Inventory Status (40 CFR710):** Not regulated

**SARA 302 Components:** N/A

**SARA 311/312 Hazard(s):** Yes

**SARA 313 Components:** N/A

**US State Regulations****US. Massachusetts RTK – Substance List**

Crystalline silica (Quartz) (CAS 14808-60-7)

Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0)

Portland Cement (CAS 65997-15-1)

**US. New Jersey Worker and Community Right-To-Know Act**

Crystalline silica (Quartz) (CAS 14808-60-7)



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Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0)  
Portland Cement (CAS 65997-15-1)

**US. Pennsylvania Worker and Community Right-To-Know Law**

Crystalline silica (Quartz) (CAS 14808-60-7)  
Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0)  
Portland Cement (CAS 65997-15-1)

**US. Rhode Island RTK**

Not regulated

**US California Proposition 65**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed Substance**

Crystalline silica (Quartz) (CAS 14808-60-7)

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**Section 16 - Other Information**

HMIS	
H	2
F	0
R	0



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**Date Prepared: 7/16/18**

**Glossary:** ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CASChemical Abstract Service; Chemtrec-Chemical Transportation Emergency Center (US); CHIPChemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRAEmergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association; IMDG-International Maritime Dangerous Goods Code; LC-Lethal Concentration; LD-Lethal Dose; LEL-Lower Explosion Level; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limit;





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OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL-Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; UEL-Upper Explosion Level; US DOT-US Department of Transportation; WHMIS-Workplace Hazardous Materials Information System.

**Further Information:** Plaster of Paris: Is classified as a hazardous substance but is generally considered a safe material for routine use. When plaster of Paris is used responsibly it is not considered as a dangerous material. However, when mixed with water this product can become very hot. DO NOT attempt to make a cast enclosing any part of the body. Encasing any body part can cause serious burns and even amputation of the encased body part.

Crystalline silica: Raw materials in this product may contain respirable crystalline silica. Exposures to respirable crystalline silica are not expected during the normal use of this product. However, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer.

OSHA's "Preventing Skin Problems from Working with Portland Cement" provides excellent guidance and can be downloaded at: <https://www.osha.gov/dsg/guidance/cement-guidance.html>

**Disclaimer:** The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of The Monster Makers, Inc. regardless of the legal theory advanced, it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use. This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH). Classifications of the chemical in accordance with 29 CFR 1910.1200, signal word, hazard and precautionary statement(s), symbol(s) and other information are based on listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS and EC No 1907/2006 and are considered trade secrets under US Federal Law (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union Directives.