



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Ceramical Gypsum Cement

**Other means of identification**

**SDS number** 52000000039

**Synonyms** Ceramics

**Recommended use** Molds.

**Recommended restrictions** Uses other than the recommended use.

### Manufacturer/Importer/Supplier/Distributor information

**Company name** United States Gypsum Company

**Address** 550 West Adams Street  
Chicago, Illinois 60661-3637

**Telephone** 1-800-874-4968

**Website** www.usg.com

**Emergency phone number** 1-800-507-8899

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Serious eye damage/eye irritation Category 1  
Sensitization, skin Category 1

**OSHA defined hazards** Not classified.

### Label elements



**Signal word** Danger

**Hazard statement** May cause an allergic skin reaction. Causes serious eye damage.

### Precautionary statement

**Prevention** Avoid breathing dust. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection.

**Response** If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. 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. Wash contaminated clothing before reuse.

**Storage** Not assigned.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** None.

## 3. Composition/information on ingredients

### Mixtures

| Chemical name   | CAS number | %    |
|---|------------|------|
| Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) | 26499-65-0 | > 95 |
| Portland Cement   | 65997-15-1 | < 5  |

**Composition comments** All concentrations are in percent by weight. The exact concentrations of the above listed chemicals are being withheld as a trade secret.

## 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | Move to fresh air. Call a physician if symptoms develop or persist.  |
| <b>Skin contact</b>   | Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.   |
| <b>Eye contact</b>  | Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.   |
| <b>Ingestion</b>  | Plaster of Paris hardens and if ingested may result in stomach and intestinal blockage. Drinking gelatin solutions or large volumes of water may delay setting. Get medical attention if symptoms occur.   |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Dusts may irritate the respiratory tract, skin and eyes. Coughing. May cause an allergic skin reaction. Dermatitis. Rash. |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.   |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.  |

## 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).                      |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.                        |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.   |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>Fire fighting equipment/instructions</b>                          | Use water spray to cool unopened containers.  |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.    |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.   |

## 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.   |
| <b>Methods and materials for containment and cleaning up</b>               | <p>Minimize dust generation and accumulation. Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.</p> <p>Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.</p> <p>Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p> |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.   |

## 7. Handling and storage

|   |   |
|---|---|
| <b>Precautions for safe handling</b>                                | Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not get this material in contact with eyes. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Persons susceptible to allergic reactions should not handle this product. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).  |

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Permissible Exposure Limits (PEL) 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/m3  | Respirable fraction. |
|  |      | 15 mg/m3 | Total dust.          |
| Portland Cement (CAS 65997-15-1)   | PEL  | 5 mg/m3  | Respirable fraction. |
|  |      | 15 mg/m3 | Total dust.          |

#### US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000)

| Components   | Type | Value    | Form                 |
|--|------|----------|----------------------|
| Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0) | TWA  | 5 mg/m3  | Respirable fraction. |
|  |      | 15 mg/m3 | Total dust.          |
|  |      | 50 mppcf | Total dust.          |
|  |      | 15 mppcf | Respirable fraction. |
| Portland Cement (CAS 65997-15-1)   | TWA  | 50 mppcf |                      |

#### US. ACGIH Threshold Limit Values (TLV)

| Components   | Type | Value    | Form                 |
|--|------|----------|----------------------|
| Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0) | TWA  | 10 mg/m3 | Inhalable fraction.  |
| Portland Cement (CAS 65997-15-1)   | TWA  | 1 mg/m3  | Respirable fraction. |

#### NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

| Components                       | Type | Value      |
|----------------------------------|------|------------|
| Portland Cement (CAS 65997-15-1) | IDLH | 5000 mg/m3 |

#### 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/m3  | Respirable. |
|  |      | 10 mg/m3 | Total       |
| Portland Cement (CAS 65997-15-1)   | TWA  | 5 mg/m3  | Respirable. |
|  |      | 10 mg/m3 | Total       |

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Provide eyewash station.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles) and a face shield.

|                                       |   |
|---------------------------------------|---|
| <b>Skin protection</b>                |   |
| <b>Hand protection</b>                | Wear appropriate chemical resistant gloves.   |
| <b>Skin protection</b>                |   |
| <b>Other</b>                          | Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.  |
| <b>Respiratory protection</b>         | 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), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.   |
| <b>General hygiene considerations</b> | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.  |

## 9. Physical and chemical properties

### Appearance

|  |                                    |
|--|------------------------------------|
| <b>Physical state</b>                          | Solid.                             |
| <b>Form</b>                                    | Powder.                            |
| <b>Color</b>                                   | Gray to off-white.                 |
| <b>Odor</b>                                    | Low to no odor.                    |
| <b>Odor threshold</b>                          | Not applicable.                    |
| <b>pH</b>                                      | 11 - 13                            |
| <b>Melting point/freezing point</b>            | Not applicable.<br>Not applicable. |
| <b>Initial boiling point and boiling range</b> | Not applicable.                    |
| <b>Flash point</b>                             | Not applicable.                    |
| <b>Evaporation rate</b>                        | Not applicable.                    |
| <b>Flammability (solid, gas)</b>               | Not available.                     |

### Upper/lower flammability or explosive limits

|  |                                     |
|--|-------------------------------------|
| <b>Explosive limit - lower (%)</b>             | Not applicable.                     |
| <b>Explosive limit - upper (%)</b>             | Not applicable.                     |
| <b>Vapor pressure</b>                          | Not applicable.                     |
| <b>Vapor density</b>                           | Not applicable.                     |
| <b>Relative density</b>                        | 2.96 - 3.15 (H <sub>2</sub> O=1)    |
| <b>Solubility(ies)</b>                         |                                     |
| <b>Solubility (water)</b>                      | 0.15 - 1 g/100 g (H <sub>2</sub> O) |
| <b>Partition coefficient (n-octanol/water)</b> | Not applicable.                     |
| <b>Auto-ignition temperature</b>               | Not applicable.                     |
| <b>Decomposition temperature</b>               | 2642 °F (1450 °C)                   |
| <b>Viscosity</b>                               | Not applicable.                     |
| <b>Other information</b>                       |                                     |
| <b>Bulk density</b>                            | 75 - 85 lb/ft <sup>3</sup>          |
| <b>Explosive properties</b>                    | Not explosive.                      |
| <b>Oxidizing properties</b>                    | Not oxidizing.                      |
| <b>Particle size</b>                           | Varies.                             |
| <b>VOC</b>                                     | Not applicable.                     |

## 10. Stability and reactivity

|                           |   |
|---------------------------|---|
| <b>Reactivity</b>         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b> | Material is stable under normal conditions.   |

|   |  |
|---|--|
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.  |
| <b>Conditions to avoid</b>                | Avoid temperatures exceeding the decomposition temperature. 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. |
| <b>Incompatible materials</b>             | Acids. Strong oxidizing agents.  |
| <b>Hazardous decomposition products</b>   | Calcium oxides. Sulfur oxides.   |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Dust may irritate respiratory system. Prolonged inhalation may be harmful. |
| <b>Skin contact</b> | Dust or powder may irritate the skin. May cause an allergic skin reaction. |
| <b>Eye contact</b>  | Causes serious eye damage.   |
| <b>Ingestion</b>    | Ingestion may cause irritation and stomach discomfort.                     |

|   |  |
|---|--|
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Dusts may irritate the respiratory tract, skin and eyes. Coughing. May cause an allergic skin reaction. Dermatitis. Rash. |
|---|--|

### Information on toxicological effects

|  |  |
|--|--|
| <b>Acute toxicity</b>                    | Not expected to be acutely toxic.                      |
| <b>Skin corrosion/irritation</b>         | Prolonged skin contact may cause temporary irritation. |
| <b>Serious eye damage/eye irritation</b> | Causes serious eye damage.                             |

### Respiratory or skin sensitization

|                                  |                                      |
|----------------------------------|--------------------------------------|
| <b>Respiratory sensitization</b> | Not a respiratory sensitizer.        |
| <b>Skin sensitization</b>        | May cause an allergic skin reaction. |

|                               |  |
|-------------------------------|--|
| <b>Germ cell mutagenicity</b> | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
|-------------------------------|--|

|                        |   |
|------------------------|---|
| <b>Carcinogenicity</b> | Not classifiable as to carcinogenicity to humans. |
|------------------------|---|

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### NTP Report on Carcinogens

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

|                              |  |
|------------------------------|--|
| <b>Reproductive toxicity</b> | This product is not expected to cause reproductive or developmental effects. |
|------------------------------|--|

|   |                 |
|---|-----------------|
| <b>Specific target organ toxicity - single exposure</b> | Not classified. |
|---|-----------------|

|   |                 |
|---|-----------------|
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified. |
|---|-----------------|

|                          |                           |
|--------------------------|---------------------------|
| <b>Aspiration hazard</b> | Not an aspiration hazard. |
|--------------------------|---------------------------|

|                        |                                      |
|------------------------|--------------------------------------|
| <b>Chronic effects</b> | Prolonged inhalation may be harmful. |
|------------------------|--------------------------------------|

## 12. Ecological information

|                    |  |
|--------------------|--|
| <b>Ecotoxicity</b> | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
|--------------------|--|

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

|                                      |  |
|--------------------------------------|--|
| <b>Persistence and degradability</b> | Calcium sulfate dissolves in water forming calcium and sulfate ions. |
|--------------------------------------|--|

|                                  |                                  |
|----------------------------------|----------------------------------|
| <b>Bioaccumulative potential</b> | Bioaccumulation is not expected. |
|----------------------------------|----------------------------------|

|                         |                    |
|-------------------------|--------------------|
| <b>Mobility in soil</b> | No data available. |
|-------------------------|--------------------|

**Other adverse effects** None expected.

### 13. Disposal considerations

**Disposal instructions** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

#### **SARA 304 Emergency release notification**

Not regulated.

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

#### **Toxic Substances Control Act (TSCA)**

All components of the mixture on the TSCA 8(b) inventory are designated "active".

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

##### **SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** Yes

**Classified hazard categories** Serious eye damage or eye irritation  
Respiratory or skin sensitization

##### **SARA 313 (TRI reporting)**

Not regulated.

#### **Other federal regulations**

##### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

##### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

#### **US state regulations**

##### **US. Massachusetts RTK - Substance List**

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

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

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

### US. Rhode Island RTK

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

### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### International Inventories

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Industrial Chemicals (AICIS)                   | No                     |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | No                     |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply 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).

## 16. Other information, including date of preparation or last revision

|                     |   |
|---------------------|---|
| Issue date          | 07-May-2014   |
| Revision date       | 31-July-2024  |
| Version #           | 03  |
| 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. |

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>

NFPA Ratings:  
Health: 2  
Flammability: 0  
Physical hazard: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### NFPA ratings



### Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.