SAFETY DATA SHEET

1. Identification

Product identifierCAL-SEAL NOVA™ Gypsum Cement
Other means of identification
   SDS number52000000159
   Recommended useGypsum Cement
   Recommended restrictionsUse in accordance with manufacturer's recommendations.
Manufacturer/Importer/Supplier/Distributor information
   Company nameUnited States Gypsum Company
   Address550 West Adams Street
   AddressChicago, Illinois 60661-3637
   Telephone1-800-874-4968
   Websitewww.usg.com
   Emergency phone number1-800-507-8899

2. Hazard(s) identification

Physical hazards
Health hazards
   Skin corrosion/irritationCategory 2
   Serious eye damage/eye irritationCategory 1
   Sensitization, skinCategory 1
   CarcinogenicityCategory 1A
OSHA defined hazardsNot classified.
Label elements

Signal wordDanger
Hazard statementCauses skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer.
Precautionary statement
   PreventionObtain 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/protective clothing/eye protection/face protection.
   ResponseIf 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 it before reuse.

3. Composition/information on ingredients

Mixtures

Hazard(s) not otherwise classified (HNOC)None known.
Supplemental informationNone.

CAL-SEAL NOVA™ Gypsum Cement

948137 Version #: 01 Revision date: - Issue date: 06-February-2019
Plaster of Paris (Calcium sulfate hemihydrate CAS 10034-76-1) 26499-65-0 > 95
Portland Cement 65997-15-1 < 3

Impurities

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline silica (Quartz)</td>
<td>14808-60-7</td>
<td>&lt; 0.5</td>
</tr>
</tbody>
</table>

Composition comments

All concentrations are in percent by weight.

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.

4. 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.

Skin contact
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.

Eye contact
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.

Ingestion
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.

Most important symptoms/effects, acute and delayed
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. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information
IF exposed or concerned: Get medical advice/attention. 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

Suitable extinguishing media
Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media
Not applicable.

Specific hazards arising from the chemical
Not a fire hazard.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions
Use water spray to cool unopened containers.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. See Section 8 of the SDS for Personal Protective Equipment.

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.

Environmental precautions
Avoid discharge to drains, sewers, and other water systems.
7. Handling and storage

Precautions for safe handling
Wear appropriate personal protective equipment (See Section 8). Do not get in eyes and avoid contact with skin and clothing. Avoid inhalation of dust. Minimize dust production when mixing, or opening and closing bags. Use with adequate dust control and local ventilation. Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded. Wash hands thoroughly after handling. Use a non-alkaline soap such as Neutralite Safety Solution or Mason's Hand Rinse.

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.

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impurities</td>
<td>Type</td>
</tr>
<tr>
<td>Crystalline silica (Quartz) (CAS 14808-60-7)</td>
<td>TWA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td>Type</td>
<td>Value</td>
</tr>
<tr>
<td>Plaster of Paris (Calcium sulfate hemihydrate CAS 10034-76-1) (CAS 26499-65-0)</td>
<td>PEL</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Portland Cement (CAS 65997-15-1)</td>
<td>PEL</td>
<td>15 mg/m³</td>
</tr>
<tr>
<td>5 mg/m³</td>
<td>Respirable fraction.</td>
<td></td>
</tr>
<tr>
<td>15 mg/m³</td>
<td>Total dust.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. OSHA Table Z-3 (29 CFR 1910.1000)</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td>Type</td>
</tr>
<tr>
<td>Portland Cement (CAS 65997-15-1)</td>
<td>TWA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. ACGIH Threshold Limit Values</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td>Type</td>
<td>Value</td>
</tr>
<tr>
<td>Plaster of Paris (Calcium sulfate hemihydrate CAS 10034-76-1) (CAS 26499-65-0)</td>
<td>TWA</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Portland Cement (CAS 65997-15-1)</td>
<td>TWA</td>
<td>1 mg/m³</td>
</tr>
</tbody>
</table>

| Impurities | Type | Value | Form |
|---------------------------------------------------------------|-------|-------|
| Crystalline silica (Quartz) (CAS 14808-60-7) | TWA | 0.1 mg/m³ | Respirable. |
| 2.4 mppcf | Respirable. |

<table>
<thead>
<tr>
<th>US. NIOSH: Pocket Guide to Chemical Hazards</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td>Type</td>
<td>Value</td>
</tr>
<tr>
<td>Plaster of Paris (Calcium sulfate hemihydrate CAS 10034-76-1) (CAS 26499-65-0)</td>
<td>TWA</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Portland Cement (CAS 65997-15-1)</td>
<td>TWA</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>5 mg/m³</td>
<td>Respirable.</td>
<td></td>
</tr>
<tr>
<td>10 mg/m³</td>
<td>Total</td>
<td></td>
</tr>
</tbody>
</table>
US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Impurities</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline silica (Quartz)</td>
<td>TWA</td>
<td>0.05 mg/m³</td>
<td>Respirable dust.</td>
</tr>
</tbody>
</table>

**Biological limit values**
No biological exposure limits noted for the ingredient(s).

**Exposure guidelines**
Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

**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. Provide eyewash station.

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

- **Eye/face protection**
  Wear approved safety goggles.

- **Skin protection**
  Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

- **Hand protection**
  Wear appropriate chemical resistant clothing.

- **Respiratory protection**
  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 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.

**Thermal hazards**
Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**
During work avoid kneeling in fresh mortar or concrete wherever possible. If kneeling is absolutely necessary, then appropriate waterproof personal protective equipment must be worn. Do not eat, drink or smoke when working with cement to avoid contact with skin or mouth. Immediately after working with cement or cement-containing materials, workers should wash or shower. Remove contaminated clothing, footwear, watches, etc, and clean thoroughly before re-use. Observe any medical surveillance requirements.

**9. Physical and chemical properties**

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

- **Upper/lower flammability or explosive limits**
  - Flammability limit - lower (%): Not applicable.
  - Flammability limit - lower (%) temperature: Not applicable.
  - Flammability limit - upper (%): Not applicable.
  - Flammability limit - upper (%) temperature: Not applicable.
Explosive limit - lower (%) Not applicable.
Explosive limit - lower (%) temperature Not applicable.
Explosive limit - upper (%) Not applicable.
Explosive limit - upper (%) temperature Not applicable.

Vapor pressure Not applicable.
Vapor density Not applicable.
Relative density 2.96 - 3.15 (H2O = 1)

Solubility(ies)
   Solubility (water) 0.15 - 1 g/100g (in water)

Partition coefficient (n-octanol/water) Not applicable.

Auto-ignition temperature Not applicable.
Decomposition temperature 2642 °F (1450 °C)

Viscosity Not applicable.

Other information
   Bulk density 60 - 80 lb/ft³
   Explosive properties Not explosive.
   Flammability Not applicable.
   Oxidizing properties Not oxidizing.
   VOC 0 g/l

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability Material is stable under normal conditions.
Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.
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.
Hazardous decomposition products Calcium oxides. Sulfur oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation Inhalation of dusts may cause respiratory irritation. Prolonged and repeated exposure to airborne respirable crystalline silica can cause silicosis and/or lung cancer.
Skin contact 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 (pH ≥ 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.
Eye contact Exposure to airborne dust may cause immediate or delayed irritation of the eyes. Depending on the level of exposure, effects may range from redness to chemical burns and blindness.
Ingestion Ingestion may cause irritation and stomach discomfort.
Symptoms related to the physical, chemical and toxicological characteristics 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.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.
Skin corrosion/irritation Causes skin irritation.
Causes serious eye damage.

**Respiratory or skin sensitization**

- **Respiratory sensitization**: Not classified but possible due to skin sensitization effect.
- **Skin sensitization**: Trace amounts of Cr(VI) compounds from Portland Cement may cause allergic skin reaction even after one exposure.
- **Germ cell mutagenicity**: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
- **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.
  - Crystalline silica (Quartz) (CAS 14808-60-7) Cancer

**Reproductive toxicity**

Not expected to be a reproductive hazard.

**Specific target organ toxicity - single exposure**

No data available, but none expected.

**Specific target organ toxicity - repeated exposure**

Not classified. For detailed information, see section 16.

**Aspiration hazard**

Due to the physical form of the product it is not an aspiration hazard.

**Chronic effects**

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. May cause eczema-like skin disorders (dermatitis).

12. Ecological information

**Ecotoxicity**

The product is not expected to be hazardous to the environment. Large amounts of the product may affect the pH-factor in water with possible risk of harmful effects to aquatic organisms.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plaster of Paris (Calcium sulfate hemihydrate CAS 10034-76-1) (CAS 26499-65-0)</td>
<td>Aquatic Fish</td>
<td>LC50</td>
</tr>
</tbody>
</table>

**Persistence and degradability**

No data available.

**Bioaccumulative potential**

Bioaccumulation is not expected.

**Mobility in soil**

No data available.

**Other adverse effects**

None expected.

13. Disposal considerations

**Disposal instructions**

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

**Local disposal regulations**

Dispose of in accordance with local 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.

**Contaminated packaging**

Dispose of in accordance with local regulations.

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.
  Crystalline silica (Quartz) (CAS 14808-60-7)
  - Cancer
  - lung effects
  - immune system effects
  - kidney effects

Superfund Amendments and Reauthorization Act of 1986 (SARA)

- SARA 302 Extremely hazardous substance
  Not listed.
- SARA 311/312 Hazardous chemical
  - Yes
  - Classified hazard categories
    - Skin corrosion or irritation
    - Serious eye damage or eye irritation
    - Respiratory or skin sensitization
    - Carcinogenicity
- 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
  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)
  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
  Crystalline silica (Quartz) (CAS 14808-60-7)
  Portland Cement (CAS 65997-15-1)
California Proposition 65

WARNING: This product can expose you to Crystalline silica (Quartz), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Crystalline silica (Quartz) (CAS 14808-60-7) Listed: October 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

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

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*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).

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

Issue date: 06-February-2019

Revision date: -

Version #: 01

Further information

Crystalline silica: Raw materials in this product contain respirable crystalline silica as an impurity. 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.

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

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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.