SAFETY DATA SHEET

1. Identification

Product identifier           Metal Casting Plaster 278
Product list                Metal Casting Plaster BR-278
Other means of identification
SDS number                  GP-41H
Recommended use             Industrial plaster.
Recommended restrictions    Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

Manufacturer/Importer/Supplier/Distributor information
Company name                GP Industrial Plasters LLC
Address                     100 Peachtree Street, NW
                             Atlanta, GA 30303
Telephone                   Technical Information 800.225.6119
                             (M)SDS Request 404.652.5119
E-mail                      MSDSREQ@GAPAC.COM
Emergency phone number      Chemtrec - Emergency 800.424.9300

2. Hazard(s) identification

Physical hazards
Health hazards               Category 4
Acute toxicity, oral
Eye irritation               Category 2B
Sensitization, skin         Category 1
Carcinogenicity             Category 1A
Specific target organ toxicity, repeated exposure Category 1 (lung)

Environmental hazards       Category 3
Hazardous to the aquatic environment, acute hazard

OSHA defined hazards         Not classified.

Label elements

Signal word                  Danger
Hazard statement             Harmful if swallowed. May cause an allergic skin reaction. Causes eye irritation. May cause cancer. Causes damage to organs (lung) through prolonged or repeated exposure. Harmful to aquatic life.
Precautionary statement
Prevention                   Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment. After mixing with water, do not allow prolonged contact with skin until the product has completely hardened and cooled.
Response                     If swallowed: Rinse mouth. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If exposed or concerned: Get medical advice/attention. Specific treatment (see section 4 on the SDS).
Storage
Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS). Protect from moisture.

Disposal
Dispose of contents/container in accordance with applicable regulations.

Hazard(s) not otherwise classified (HNOC)
Heat develops as product hardens. May cause serious burns during hardening (rehydration) resulting in possible permanent injury.

Supplemental information
None.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALCIUM SULFATE</td>
<td>HEMIHYDRATE</td>
<td>10034-76-1</td>
<td>60 - 80</td>
</tr>
<tr>
<td>WOLLASTONITE</td>
<td></td>
<td>13983-17-0</td>
<td>10 - 30</td>
</tr>
<tr>
<td>DIATOMACEOUS EARTH</td>
<td></td>
<td>61790-53-2</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Sand (crystalline silica)</td>
<td></td>
<td>14808-60-7</td>
<td>3 - 7</td>
</tr>
<tr>
<td>PORTLAND CEMENT</td>
<td></td>
<td>65997-15-1</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>ZIRAM</td>
<td></td>
<td>137-30-4</td>
<td>0 - 0.1</td>
</tr>
</tbody>
</table>

Other components below reportable levels

0.1 - 1

The specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Composition comments
Gypsum (calcium sulfate), diatomaceous earth and Portland Cement contain naturally occurring crystalline silica (quartz) which is listed as a lung carcinogen. See Section 8 for exposure information.

4. First-aid measures

Inhalation
Move to fresh air. Call a physician if symptoms develop or 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 if irritation develops and persists.

Ingestion
Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn’t get into the lungs. May result in obstruction and irritation if ingested. Get medical attention.

Most important symptoms/effects, acute and delayed
Causes eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort. Dusts may irritate the respiratory tract, skin and eyes. Coughing. Discomfort in the chest. Shortness of breath. May cause an allergic skin reaction. Dermatitis. Rash. Skin contact during hardening (rehydration) may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin. Prolonged exposure may cause chronic effects.

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

General information
IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
None known.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

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
Firefighters should wear full protective clothing including self contained breathing apparatus. 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. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe 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.

Methods and materials for containment and cleaning up

Sweep up or gather material and place in appropriate container for disposal. Minimize dust generation and accumulation. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Contain the spill, then place in a suitable container. For waste disposal, see section 13 of the SDS. Prevent entry into waterways, sewer, basements or confined areas.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. If large quantities enter a waterway, advise local authorities.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in a dry place. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep away from food, drink and animal feedingstuffs.

8. Exposure controls/personal protection

Occupational exposure limits

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALCIUM SULFATE HEMIHYDRATE (CAS 10034-76-1)</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>PORTLAND CEMENT (CAS 65997-15-1)</td>
<td>PEL</td>
<td>15 mg/m3</td>
<td>Total dust.</td>
</tr>
<tr>
<td>Sand (crystalline silica) (CAS 14808-60-7)</td>
<td>PEL</td>
<td>0.05 mg/m3</td>
<td>Respirable dust.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIATOMACEOUS EARTH (CAS 61790-53-2)</td>
<td>TWA</td>
<td>0.86 mg/m3</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALCIUM SULFATE HEMIHYDRATE (CAS 10034-76-1)</td>
<td>TWA</td>
<td>10 mg/m3</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>PORTLAND CEMENT (CAS 65997-15-1)</td>
<td>TWA</td>
<td>1 mg/m3</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Sand (crystalline silica) (CAS 14808-60-7)</td>
<td>TWA</td>
<td>0.025 mg/m3</td>
<td>Respirable fraction.</td>
</tr>
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</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIATOMACEOUS EARTH (CAS 61790-53-2)</td>
<td>TWA</td>
<td>6 mg/m3</td>
<td></td>
</tr>
<tr>
<td>PORTLAND CEMENT (CAS 65997-15-1)</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Respirable.</td>
</tr>
<tr>
<td>10 mg/m3</td>
<td>Total</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9. Physical and chemical properties

#### Appearance
- **Powder**

#### Physical state
- **Solid.**

#### Form
- **Powder.**

#### Color
- **Light grey to white**

#### Odor
- **Low odor**

#### Odor threshold
- Not available.

#### pH
- **8 - 10**

#### Melting point/freezing point
- **2684.58 °F (1473.65 °C) estimated**

#### Initial boiling point and boiling range
- Not applicable

#### Flash point
- Not applicable

#### Evaporation rate
- Not available

#### Flammability (solid, gas)
- Not available.

#### Upper/lower flammability or explosive limits
- **Flammability limit - lower (%)** Not applicable
- **Flammability limit - upper (%)** Not applicable
- **Explosive limit - lower (%)** Not available.
- **Explosive limit - upper (%)** Not available.
- **Vapor pressure** Not applicable
Vapor density
Relative density
Solubility(ies)
  Solubility (water)
Partition coefficient (n-octanol/water)
Auto-ignition temperature
Decomposition temperature
Viscosity
Other information
  Explosive properties
  Flash point class
  Oxidizing properties
  Specific gravity

10. Stability and reactivity
Reactivity
Chemical stability
Possibility of hazardous reactions
Conditions to avoid
Incompatible materials
Hazardous decomposition products

11. Toxicological information
Information on likely routes of exposure
  Inhalation
  Skin contact
  Eye contact
  Ingestion
Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects
Acute toxicity

Product  Species  Test Results
Metal Casting Plaster 278
  Acute
  Oral
    LD50  Rat  1780 mg/kg estimated
Components  Species  Test Results
  CALCIUM SULFATE HEMIHYDRATE (CAS 10034-76-1)
    Acute
    Oral
      LD50  Rat  > 1581 mg/kg
<table>
<thead>
<tr>
<th>Components</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sand (crystalline silica) (CAS 14808-60-7)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td>LD50 Rat 500 mg/kg</td>
</tr>
<tr>
<td><strong>ZIRAM (CAS 137-30-4)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td>LD50 Rabbit 2000.1 mg/kg</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
</tr>
<tr>
<td><strong>LC50</strong></td>
<td>Rat 81 mg/l/4h</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td>LD50 Rat 320 mg/kg</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation**  
Skin contact during hardening (rehydration) may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin.

**Serious eye damage/eye irritation**  
Causes eye irritation.

**Respiratory or skin sensitization**  
**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity**  
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**  
Exposure to respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by IARC and NTP as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to a respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of respirable crystalline silica exposure and the length of time (usually years) of exposure.

**IARC Monographs. Overall Evaluation of Carcinogenicity**  
- DIATOMACEOUS EARTH (CAS 61790-53-2) 3 Not classifiable as to carcinogenicity to humans.
- Sand (crystalline silica) (CAS 14808-60-7) 1 Carcinogenic to humans.
- WOLLASTONITE (CAS 13983-17-0) 3 Not classifiable as to carcinogenicity to humans.
- ZIRAM (CAS 137-30-4) 3 Not classifiable as to carcinogenicity to humans.

Sand (crystalline silica) (CAS 14808-60-7) Cancer

**US. National Toxicology Program (NTP) Report on Carcinogens**  
Sand (crystalline silica) (CAS 14808-60-7) Known To Be Human Carcinogen.

**Reproductive toxicity**  
This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure**  
Not classified.

**Specific target organ toxicity - repeated exposure**  
Causes damage to organs (lung) through prolonged or repeated exposure.

**Aspiration hazard**  
Not an aspiration hazard.

**Chronic effects**  
Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

**12. Ecological information**

**Ecotoxicity**  
Harmful to aquatic life.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CALCIUM SULFATE HEMIHYDRATE (CAS 10034-76-1)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50 Fathead minnow (Pimephales promelas)</td>
<td>&gt; 1970 mg/l, 96 hours</td>
</tr>
</tbody>
</table>
Components | Species | Test Results
--- | --- | ---
ZIRAM (CAS 137-30-4) | | 
**Aquatic** | | 
*Acute* | | 
Fish | LC50 | Fish | 0.0097 - 1.7 mg/l, 96 hours

*Chronic* | | 
Fish | NOEC | Fish | 0.101 - 0.222 mg/l, 33 days

**Persistence and degradability** | No data is available on the degradability of this product.

**Bioaccumulative potential** | 
Partition coefficient n-octanol / water (log Kow) | 1.23

**Mobility in soil** | No data available.

**Other adverse effects** | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions** | Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

**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.

**US RCRA Hazardous Waste P List: Reference** | 
ZIRAM (CAS 137-30-4) | P205

**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 (see: Disposal instructions).

**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.

**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)** | ZIRAM (CAS 137-30-4) | Listed.

**SARA 304 Emergency release notification** | Not regulated.


**Superfund Amendments and Reauthorization Act of 1986 (SARA)** | 
**SARA 302 Extremely hazardous substance** | Not listed.

**SARA 311/312 Hazardous chemical** | Yes
Acute toxicity (any route of exposure)
Serious eye damage or eye irritation
Respiratory or skin sensitization
Carcinogenicity
Specific target organ toxicity (single or repeated exposure)

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
California Proposition 65

WARNING: This product can expose you to chemicals including 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
Sand (crystalline silica) (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))
Sand (crystalline silica) (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>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<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 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: March-04-2015
Revision date: August-22-2018
Version #: 05

HMIS® ratings
Health: 2*
Flammability: 0
Physical hazard: 1

NFPA ratings
Health: 2
Flammability: 0
Instability: 0

Disclaimer
This SDS is intended to quickly provide useful information to the user(s) of this material or product. It is not intended to serve as a comprehensive discussion of all possible risks or hazards, and it assumes a reasonable use of the product. The information contained in this SDS is believed to be accurate as of the date of preparation of this SDS and has been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. The user or handler (or their employer) should consider the specific conditions in which this material will be used, handled, or stored and determine what specific safety or other precautions are required. Employers should ensure that their employees, agents, contractors, and customers who will use the product receive adequate warnings and safe handling procedures, including a current SDS. Product users or handlers (or their employer) who are unsure of what specific precautions are required should consult their employer, product supplier, or safety or health professionals before handling or working with this product. Please notify us immediately if you believe this SDS or other safety and health information about this product is inaccurate or incomplete.