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# ALLIED CUSTOM GYPSUM

## Material Safety Data Sheet Industrial Products

Allied Custom Gypsum Plasterworks 1550 Double Drive Norman, OK 73069		Product Safety: 1(800)624-5963 <a href="http://www.alliedcustomgypsum.com">www.alliedcustomgypsum.com</a> Version: ACGP2-01/23/2012 Revision: 2
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### Section I Product Identification

Products	Industrial Plaster Products see section XVI
Common Name	Plaster of Paris
Chemical Name	Calcium Sulfate Hemihydrate
Chemical Formula	CaSo4-1/ 2H2O

### Section II Information on Ingredients

<u>Ingredients</u>	<u>CAS Number</u>	<u>OSHA PEL* (mg/m<sup>3</sup>)</u>	<u>ACGIH TLV* (mg/m<sup>3</sup>)</u>	<u>WT (%)</u>
Plaster of Paris	26499-65-0	15(T)/5(R)	10	>95
Crystalline Silica	14808-60-7	0.1(R)	0.1(R)	<0.5

### Section III – Hazard Identification

This product can release nuisance dust in handling or during use. Eye, skin, nose, throat, and upper respiratory irritation may occur with prolonged dust exposures.

#### **Effects of Overexposure:**

##### **Acute:**

**Eyes:** Direct contact can cause mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician.

**Skin:** This material hardens and slowly becomes hot when mixed with water. Therefore, it **SHOULD NOT** be used to make a cast enclosing any part of the body. Failure to follow these instructions can cause severe burns that may require surgical removal of affected tissue or amputation of limb. Burns may occur without obvious pain at the time of exposure. However, direct, prolonged or repeated contact with the skin may cause irritation. Rubbing of this product against the skin can result in abrasions. Rinse with water until free of material to avoid abrasions, and then wash skin thoroughly with mild soap and water. May dry skin.

**Inhalation:** Inhalation of dusts from this product may irritate the nose, throat, lungs, and upper respiratory tract. Persons subject to large amounts of this dust will be forced to leave area because of nuisance conditions such as coughing, sneezing, and nasal irritation. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.



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Ingestion:	Unlikely to occur, but may cause gastric disturbances if swallowed. Plaster of Paris is non-toxic; however, ingestion of a sufficient quantity could lead to mechanical obstruction of the gut, especially the pyloric region. See Emergency and First Aid – Ingestion below.
<i>Chronic:</i>	Gypsum displays no specific toxic properties.
Inhalation:	Prolonged and repeated exposure to respirable crystalline silica can result in lung disease (i.e. silicosis) and/or lung cancer.
Eyes:	None known
Skin:	None known
Ingestion:	None known effects

## Carcinogenicity:

<u>Material</u>	<u>IARC</u>	<u>NTP</u>
Crystalline Silica	Group 1	Anticipated

In 1997, IARC classified inhaled crystalline silica as carcinogenic to humans categorizing it as a Group 1 agent. In this evaluation, IARC noted that carcinogenicity was not detected in all industrial circumstances studied, and may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs. In 1992, NTP listed respirable crystalline silica among the substances “reasonably anticipated to be carcinogens”.

## Section IV First Aid Measures

### Emergency and First-Aid Procedures:

Eyes:	Flush thoroughly with water for 15 minutes. If irritation persists, consult physician.
Skin:	Wash with mild soap and water. Dry skin may be treated with a commercially available hand lotion. If skin has become cracked, take appropriate action to prevent infection and promote healing.
Inhalation:	Leave the area of dust exposure and remain away until coughing and other symptoms subside. While other measures are usually not necessary, consult a physician if conditions warrant.
Ingestion:	No specific recommendations. If gastric occurs, consult physician. This product contains gypsum plaster. Plaster of Paris hardens when wetted and, if ingested, may result in obstruction of the gut, especially the pyloric region.
Target Organs:	Eyes, skin and respiratory system.
Medical Conditions Which may be Aggravated:	Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema, and asthma.
Primary Routes of Entry:	Inhalation, eyes and/or skin contact, ingestion.



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## Precautionary Labeling:

	<u>HMIS</u>	<u>NFPA</u>
Health	1	1
Flammability	0	0
Reactivity	0	0
Other	-	N/A

Rating Scale: 0 = Minimal Hazard, 1 = Slight Hazard, 3 = Serious Hazard, 4 = Extreme Hazard

## Precautionary Label Statements:

Caution, may cause irritation during use. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. When not in uses keep in tightly closed container.

## Section V Fire and Explosion Hazard Data

Flash Point	Non-combustible
Flammable Limits	N/A
Fire Extinguishing Media	Use extinguishing media appropriate for surrounding fire.
Special Fire-Fighting Procedures	None
Toxic Gases Produced	Decomposes to Sulfur dioxide @1450°C

## Section VI Spill and Disposal Procedures

### Steps to be taken in the event of a spill or discharge:

Remove by dry sweeping or vacuum. Avoid creating excessive dust. Do not wash down drains since it could plug drains. If already mixed with water, scrape up and place in container. Wear appropriate protective equipment.

### Disposal Procedure:

Dispose of material in accordance with all applicable federal, state and local regulations. Can be disposed as inert solid in a landfill. Slurry may plug drains.

## Section VII Handling and Storage

**Handling:** Avoid contact with skin and eyes. Do not breathe dust. Use only in well-ventilated areas. Wear appropriate eye and respiratory protection, NIOSH approved dust mask, if dust is generated. When using, do not eat or drink. Wash hands before eating, drinking or smoking.

**Storage:** Keep out of reach of children. Keep the container tightly closed and dry. Store in a covered, dry, climate controlled area, away from incompatibles.



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## Section VIII Exposure Control

When using product, provide local and general exhaust ventilation to keep airborne dust concentrations below exposure limits.

No TLV assigned to this mixture, see Ingredients Section. Minimize exposures in accordance with good hygiene practice.

- Engineering Controls:** Ventilate to keep exposures below TLV requirements of the individual ingredients. General ventilation is expected to be satisfactory. Use local exhaust ventilation if necessary to control dust.
- Respiratory Protection:** None required where adequate ventilation conditions exist. In order to meet TLV requirements of individual ingredients and to control dusting conditions, provide general ventilation and local exhaust ventilation. Avoid creating dust. Wear a NIOSH/MSHA- approved dust respirator in poorly ventilated areas and/or if TLV requirements of the individual ingredients is exceeded.
- Personal Protective Equipment:** While not necessary, gloves and/or protective clothing may be desirable in certain working conditions, such as, repeated or prolonged skin contact. Wear eye protection (safety glasses or goggles) to avoid particulate irritation of the eye.

## Section IX Physical/Chemical Characteristics

Appearance	White Powder
Melting Point	1,450°C - decomposes
Odor	Low
Solubility (in water)	0.15%
Specific Gravity	2.6-3.0
pH:	8
Hardening Time	25-120 minutes

## Section X Chemical Stability and Reactivity

- Chemical Stability:** Stable at normal storage conditions
- Conditions of reactivity:** Reacts with water (normal condition of use)
- Incompatible materials:** Acids
- Hazardous decomposition products:** May include, and are not limited to: calcium oxide, sulfur dioxide,



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## Section XI Toxicological Information

**Chronic EFFECTS:** The acute oral toxicity study [OECD TG 420] of calcium sulfate dihydrate showed that this chemical did not cause any changes.

### CHRONIC EFFECTS / CARCINOGENICITY:

Crystalline Silica: Exposures to respirable crystalline silica are not expected during the normal use of this product; however, levels must be determined by in house workplace hygiene testing.

In 1997, IARC classified inhaled crystalline silica as carcinogenic to humans categorizing it as a Group 1 agent. In this evaluation, IARC noted that carcinogenicity was not detected in all industrial circumstances studied, and may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs. In 1992, NTP listed respirable crystalline silica among the substances "reasonably anticipated to be carcinogens".

## Section XII Ecological Information

There are no known causes from this product that would harm the Ecology.

Toxicity studies with fish, invertebrates and plants that live in the water showed no toxic effect.

## Section XIII Spill and Disposal Procedures

### **Steps to be taken in the event of a spill or discharge:**

Remove by dry sweeping or vacuum. Avoid creating excessive dust. Do not wash down drains since it could plug drains. If already mixed with water, scrape up and place in container. Wear appropriate protective equipment.

### **Disposal Procedure:**

Dispose of material in accordance with all applicable federal, state and local regulations. Can be disposed as inert solid in a landfill. Slurry may plug drains.

## Section XIV Transport Information

### **Department of Transportation (DOT) Requirements**

This product is not regulated as a hazardous material by the United States (DOT) Transportation regulations.

### **Canadian Transportation of Dangerous Goods (TDG) Requirements**

Not regulated as dangerous goods



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## Section XV Regulatory Information

### **U.S. EPA's Toxic Substance Control Act Chemical Substance Inventory**

- Not listed as reportable quantity or regulated quantity.

### **Canadian Controlled Product Regulations:**

Gypsum: Not listed

Crystalline Silica: IDL\* Item #1406

\*IDL Item: Canadian Hazardous Product Act Ingredient Disclosure List

\*WHMIS: Workplace Hazardous Safety Information System

## Section XVI Product List

Dynaplast® Base Alpha  
Dynaplast® Alpha Q/S  
Dynaplast® Alpha Q/S Buff  
Dynaplast® HS  
Dynaplast® GRG Gypsum Cement  
Dynaplast® GRG XL  
Dynaplast® OCG 60  
Dynaplast® OCG 120  
Dynaplast® DS712  
Dynaplast® DS712 Buff  
Pottery Plaster  
Moulding Plaster  
Moulding Plaster S/S  
15 min Moulding Plaster  
20 min Moulding Plaster  
30 min Moulding Plaster  
Lab Dental Plaster Q/S  
Dental Plaster 1530