SECTION 1 CHEMICAL PRODUCT AND IDENTIFICATION

United States Gypsum Company

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Chicago, Illinois 60661-3637

A Subsidiary of USG Corporation

Product Safety: 1 (800) 507-8899

www.usg.com

Version Date: January 1, 2011

Version: 6

PRODUCT(S) IMPERIAL Finish Plaster

CHEMICAL FAMILY /
GENERAL CATEGORY

Texture/Finishing

SYNONYMS

Interior wall and ceiling finish, surfacer

SECTION 2 HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

ΔWARNING!

This product is not expected to produce any unusual hazards during normal use. Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. Respirable crystalline silica is classified as a carcinogen and long term breathing of respirable crystalline silica dust can cause silicosis and/or lung cancer. Take necessary measures to avoid exposure to respirable crystalline silica.

POTENTIAL HEALTH EFFECTS (See Section 11 for more information)

ACUTE:

	Exposure to dust generated during the handling or use of the product may cause temporary irritation to eyes, skin, nose, throat, and upper respiratory tract. Persons subjected to large amounts of this
Inhalation	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
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persist, consult physician.

None known.

Eyes Dust can cause temporary mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician.

Symptoms persist or develop, consult physician

Ingestion None known.

CHRONIC:

Skin

Inhalation

Due to the sand content of this product, exposures to respirable crystalline silica might be possible during the normal use of this product. Actual exposure 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. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration.

Eyes None known.

Skin None known.

Ingestion None known.

TARGET ORGANS: Eyes, skin and respiratory system.

PRIMARY ROUTES OF ENTRY: Inhalation, eyes and skin contact.

CARCINOGENICITY CLASSIFICATION OF INGREDIENT(S) All substances listed are associated with the nature of the raw materials used in the manufacture of this product and are not independent components of the product formulation. All substances, if present, are at levels well below regulatory limits. See Section 11: Toxicology Information for detailed information.

MATERIAL	IARC	NTP	ACGIH	CAL- 65
Crystalline silica	1	1	A2	Listed

IARC - International Agency for Research on Cancer: 1- Carcinogenic to humans; 2A – Probably carcinogenic to humans; 2B – Possibly carcinogenic to humans; 3 - Not classifiable as a carcinogen; 4 – Probably not a carcinogen

NTP – National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS): 1-Known to be carcinogen; 2- Anticipated to be carcinogens

ACGIH – American Conference of Governmental Industrial Hygienists: A1 – Confirmed human carcinogen; A2 – Suspected human carcinogen; A3 – Animal carcinogen; A4 - Not classifiable as a carcinogen; A5 – Not suspected as a human carcinogen

CAL-65 – California Proposition 65 "Chemicals known to the State of California to Cause Cancer"

Respirable crystalline silica: IARC: Group 1 carcinogen, NTP: Known human carcinogen.

POTENTIAL ENVIRONMENTAL EFFECTS: Toxicity studies performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect. (See Section 12 for more information.)

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

MATERIAL	WT%	CAS#
Plaster of Paris (CaSO4•½H2O)	>65	26499-65-0
Crystalline Silica (Sand)	<25	14808-60-7
Gypsum (CaSO4•2H2O)	<10	13397-24-5

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory and the Canadian Domestic Substances List (DSL).

SECTION 4 FIRST AID MEASURES

FIRST AID	PROCEDURES
Inhalation	Remove to fresh air. Leave the area of exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, contact physician.
Eyes	In case of contact, do not rub or scratch your eyes. To prevent mechanical irritation, flush thoroughly with water for 15 minutes. If irritation persists, consult physician.
Skin	To prevent the drying effect of plaster of paris, wash with mild soap and water. A commercially available hand lotion may be used to treat dry skin areas. If skin has become cracked, take appropriate action to prevent infection and promote healing. If irritation persists, consult physician.

Ingestion

Plaster of paris hardens and, if ingested, may result in obstruction of the gut, especially the pyloric region. Drinking gelatin solutions or large volumes of water may delay setting.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED: Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Pre-existing skin diseases such as, but not limited to, rashes and dermatitis.

NOTES TO PHYSICIAN: Treatment should be directed at the control of symptoms and the clinical condition.

SECTION 5 FIRE FIGHTING MEASURES

General Fire Hazards		Not expecte	d to burn.		
Extinguishing Media		Water or use	e extinguishing media a	ppropriate for surrounding fire.	
Special Fire Fighting Procedure	s	Wear approp	priate personal protectiv	ve equipment. See section 8.	
Unusual Fire/ Explosion Hazards		None known			
Hazardous Combustion Products		Above 1450 (SO2).	Above 1450° C - decomposes to calcium oxide (CaO) and sulfur dioxide (SO2).		
Flash Point	Not	Determined	Auto Ignition	Not Applicable	
Method Used	Not .	Applicable Flammability		No. A. Produc	
Upper Flammable Limit (UFL) No		Determined Classification		Not Applicable	
Lower Flammable Limit (LFL) Not [Determined	Rate of Burning	Not Applicable	

SECTION 6 ACCIDENTAL RELEASE MEASURES

CONTAINMENT: No special precautions. Wear appropriate personal protective equipment. See section 8.

CLEAN-UP: Use normal clean up procedures. No special precautions.

DISPOSAL: Follow all local, state, provincial and federal regulations. Never discharge large releases directly into sewers or surface waters.

SECTION 7 HANDLING AND STORAGE

HANDLING: Avoid dust contact with eyes and skin. Wear the appropriate eye and skin protection against dust (See Section 8). Minimize dust generation and accumulation. Avoid breathing dust. Wear the appropriate respiratory protection against dust in poorly ventilated areas and if TLV is exceeded (see Sections 2 and 8). Use good safety and industrial hygiene practices.

STORAGE: Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities (see Section 10). As a dry powder, dew point conditions or other conditions causing presence of liquid will harden plaster of paris during storage.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL	WT%	TLV (mg/m³)	PEL(mg/m³)
Plaster of Paris (CaSO4 •⅓H2O)	>65	10	15(T)/5(R)
Crystalline Silica (Sand)	<25	0.025(R)	0.1(R)
Gypsum (CaSO4•2H2O)	<10	10	15(T)/5(R)

(T)-Total; (R)-Respirable; (NE)-Not Established; (C)-Ceiling; (STEL)-Short-term exposure limit

(F)-Fume; (Du)-Dust; (M)-Mist

ppm-part per million; f/cc-fiber per cubic centimeter; mppcf- million particles per cubic foot

ENGINEERING CONTROLS: Provide ventilation sufficient to control airborne dust levels. If user operations generate airborne dust, use ventilation to keep dust concentrations below permissible exposure limits. Where general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to control dust levels below permissible exposure limits.

RESPIRATORY PROTECTION: Wear a NIOSH/MSHA-approved respirator equipped with particulate cartridges when dusty in poorly ventilated areas, and if TLV is exceeded. A respiratory program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If engineering controls are not possible, wear a properly fitted NIOSH/MSHA-approved particulate respirator.

OTHER PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face	Wear eye protection, safety glasses or goggles, to avoid possible eye contact.
Skin	Wear gloves and protective clothing to prevent repeated or prolonged skin contact.
General	Selection of Personal Protective Equipment will depend on environmental working conditions and operations.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	White to off-white	Vapor Density (Air = 1)	Not Applicable
Odor	Low to no odor	Specific Gravity (H₂O = 1)	~2.96 (Plaster of Paris), ~2.6 (Sand), ~2.3 (Gypsum)
Odor Threshold	Not Determined	Solubility in water (g/100g)	0.15 - 0.40 (Plaster of Paris); Insoluble (Sand); 21 (Gypsum)
Physical State	Solid/ Powder	Partition Coefficient	Not Determined
pH @ 25 ° C	~7	Auto-ignition Temp	Not Determined
Melting Point	Not Applicable	Decomposition Temp	2642°F/1450°C
Freezing Point	Not Applicable	Viscosity	Not Applicable
Boiling Point	Not Applicable	Particle Size	Varies

Flash Point	Not Determined Bulk Density		Not Determined
Evaporation Rate (BuAc = 1)	Not Applicable	Molecular Weight	~ 145 g/mole (Plaster of Paris)
Upper Flammable Limit (UFL)	Not Determined	VOC Content	Zero g/L
Lower Flammable Limit (LFL)	Not Determined	Percent Volatile	Zero
Vapor Pressure (mm Hg)	Not Applicable		

SECTION 10 CHEMICAL STABILITY AND REACTIVITY

STABILITY	Stable.
CONDITIONS TO AVOID	Contact with acids, water, high humidity.
INCOMPATIBILITY	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.
HAZARDOUS POLYMERIZATION	None known.
HAZARDOUS DECOMPOSITION	Above 1450° C - calcium oxide (CaO) and sulfur dioxide (SO2).

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE EFFECTS: The acute oral toxicity study [OECD TG 420] of calcium sulfate dihydrate showed that this chemical did not cause any changes even at 2,000 mg/kg b.w. Therefore, the oral LD50 value was more than 2,000-mg/kg b.w. for female rats. Gypsum paste applied experimentally to the eyes of rabbits was not an irritant. Gypsum dust particulate has shown an irritant action on mucous membranes of the respiratory tract and eyes. The sulfate ion has caused gastro-intestinal disturbance in humans following large oral doses. Limited studies involving the repeated inhalation of an (unspecified) calcium sulfate failed to identify any particular target organs in monkeys, rats and hamsters. No evidence of mutagenicity was found in Ames bacterial tests.

CHRONIC EFFECTS / CARCINOGENICITY:

Plaster of Paris: Testing of dust from USG plaster of paris has not detected respirable crystalline silica.

Sand/ Crystalline Silica: Chronic overexposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration.

In June, 1997, IARC classified crystalline silica (quartz and cristobalite) as a human carcinogen. In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.

IARC states that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

SECTION 12 ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY: This product has no known adverse effect on ecology. Toxicity studies performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect.

Ecotoxicity value Not determined.

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of material in accordance with federal, state, and local regulations. Never discharge directly into sewers or surface waters. Consult with environmental regulatory agencies for guidance on acceptable disposal practices. Slurry may plug drains. Trace amounts of residue can be flushed to a drain, using plenty of water.

SECTION 14 TRANSPORT INFORMATION

U.S. DOT INFORMATION	DN: Not a hazardous material per DOT shipping requirements. Not classified or regulated.
Shipping Name	Same as product name.
Hazard Class	Not classified.
UN/NA#	None. Not classified.
Packing Group	None.
Label (s) Required	Not applicable.
GGVSec/MDG-Code	Not classified.
ICAO/IATA-DGR	Not applicable.
RID/ADR	None.
ADNR	None.

SECTION 15 REGULATORY INFORMATION

UNITED STATES REGULATIONS

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory.

MATERIAL	WT%	3 0 2	3 0 4	3 1 3	CERCLA	CAA Sec. 112	RCRA Code
Plaster of Paris (CaSO4 • 1⁄2H2O)	>65	NL	NL	NL	NL	NL	NL
Crystalline Silica (Sand)	<25	NL	NL	NL	NL	NL	NL
Gypsum (CaSO4•2H2O)	<10	NL	NL	NL	NL	NL	NL
Key: NL = Not Listed							
SARA Title III Section 302 (EPCRA) Extremely Hazard	dous Substances:	Thres	hold P	anning	Quan	tity (TF	PQ)
SARA Title III Section 304 (EPCRA) Extremely Hazard	dous Substances:	Repo	rtable (Quantity	y (RQ)		
SARA Title III Section 313 (EPCRA) Toxic Chemicals:	: X= Subject to rep	orting	under	section	า 313		
CERCLA Hazardous Substances: Reportable Quantity (RQ)							
CAA Section 112 (r) Regulated Chemicals for Accidental Release Prevention: Threshold Quantities(TQ)							
RCRA Hazardous Waste: RCRA hazardous waste co	ode						

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of Controlled Product regulations and the MSDS contains all the information required by the Controlled Products Regulations. All ingredients of this product are included in the Canadian Domestic Substances List (DSL).

MATERIAL	WT%	IDL Item #	WHMIS Classification
Plaster of Paris (CaSO4 •½H2O)	>65	Not Listed	Not Listed
Crystalline Silica (Sand)	<25	1406	D2A
Gypsum (CaSO4•2H2O)	<10	Not Listed	Not Listed

IDL Item#: Canadian Hazardous Products Act - Ingredient Disclosure List Item #

WHMIS Classification: Workplace Hazardous Material Information System

Risk and Safety Phrases defined by European Union Directive 67/548/EEC (Annex III and IV)

R-Phrase(s): R36/37/38 R49 S-Phrase(s): S51 S38 S39

SECTION 16 OTHER INFORMATION

Label Information

∧ WARNING!

When mixed with water, this material hardens and becomes very hot sometimes quickly. DO NOT attempt to make a cast enclosing any part of the body using this material. Failure to follow these instructions can cause severe burns that may require surgical removal of affected tissue or amputation of limb. Dust can cause irritation to eyes, skin and respiratory tract. Wear eye, skin and respiratory protection as necessary per working conditions. If eye contact occurs flush with water for 15 minutes. Do not ingest. If ingested, call physician. Dust can contain silica. Prolonged and repeated breathing of silica dust can cause lung damage and/or cancer. Product safety information: 800-507-8899 or usg. com. Customer Service: 800 USG-4-YOU (800 874-4968). KEEP OUT OF REACH OF CHILDREN.



INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS 0 = Minimal Hazard HEALTH 1 NFPA Ratings: HMIS Ratings: 1 = Slight Hazard 0 **FLAMMABILITY** Health: 1 Health: 1 2 = Moderate Hazard 1 PHYSICAL HAZARD Fire: 0 Fire: 0 3 = Serious Hazard PERSONAL PROTECTION Ε 4 = Severe Hazard Reactivity: Reactivity: E - Safety glasses, gloves and dust respirator; * - Contains silica Key/Legend American National Standards Institute ANSI **ACGIH** American Conference of Governmental Industrial Hygienists CAA Clean Air Act CAS Chemical Abstracts Service (Registry Number) **CERCLA** Comprehensive Environmental Response, Compensation and Liability Act of 1980 CFR Code of Federal Regulations DOT United States Department of Transportation Canadian Domestic Substances List DSL **EPA** United States Environmental Protection Agency **EPCRA** Emergency Planning & Community Right-to-know Act **HMIS** Hazardous Materials Identification System **IARC** International Agency for Research on Cancer **MSHA** Mine Safety and Health Administration **NDSL** Canadian Non-Domestic Substances List **NFPA** National Fire Protection Association NIOSH National Institute for Occupational Safety and Health **OSHA** Occupational Health and Safety Administration **PEL** Permissible Exposure Limit **PPE** Personal Protection Equipment **RCRA** Resource Conservation and Recovery Act SARA Superfund Amendments and Reauthorization Act of 1986 TLV Threshold Limit Value **TSCA** Toxic Substances Control Act UN/NA# United Nations/North America number **WHMIS** Workplace Hazardous Material Information System Prepared by: **Product Safety USG** Corporation 550 West Adams Street

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