

**SECTION 1  
 CHEMICAL PRODUCT AND IDENTIFICATION**

United States Gypsum Company 550 West Adams Street Chicago, Illinois 60661-3637 A Subsidiary of USG Corporation	Product Safety: 1 (800) 507-8899 <a href="http://www.usg.com">www.usg.com</a> Version Date: May 8, 2008 Version: 6
<b>PRODUCT(S)</b>	USG Calcium Sulfate Coarse
<b>CHEMICAL FAMILY / GENERAL CATEGORY</b>	Industrial Products, Gypsum
<b>SYNONYMS</b>	Gypsum or Calcium Sulfate Dihydrate (CaSO4·2H2O)

**SECTION 2  
 HAZARD IDENTIFICATION**

**EMERGENCY OVERVIEW:**

**CAUTION!**  
 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.

**POTENTIAL HEALTH EFFECTS (See Section 11 for more information)**

**ACUTE :**

**Inhalation** Exposure to dust generated during the handling or use of the product may irritate eyes, skin, nose, throat, and upper respiratory tract. Persons subjected 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.

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

**Skin** None known.

**Ingestion** None known.

**CHRONIC:**

**Inhalation** 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. The weight percent of crystalline silica given represents total quartz and not the respirable fraction. The weight percent of respirable silica has not been measured in this product.

**Food and Drug Administration [CFR Title 21, v.3, sec 184.1230] - Calcium Sulfate is Generally Recognized as Safe (GRAS).**

**POTENTIAL ENVIRONMENTAL EFFECTS:** This product has no known adverse effect on ecology. (See Section 12 for more information.)

**SECTION 3  
 COMPOSITION, INFORMATION ON INGREDIENTS**

MATERIAL	WT%	CAS #
Gypsum, Anhydrite or Gypsum/Anhydrite Blend	>95	13397-24-5/14798-04-0
Crystalline Silica	<1	14808-60-7

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).

The weight percent for silica represents total quartz and not the respirable fraction.

**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** Wash with mild soap and water. If irritation persists, consult physician.

**Ingestion** This product is not intended to be ingested or eaten. If gastric disturbance occurs, call physician.

**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	None known		
Extinguishing Media	Water or use extinguishing media appropriate for surrounding fire.		
Special Fire Fighting Procedures	Wear appropriate personal protective equipment. See section 8.		
Unusual Fire/ Explosion Hazards	None known		
Hazardous Combustion Products	Above 1450° C - decomposes to calcium oxide (CaO) and sulfur dioxide (SO <sub>2</sub> ).		
Flash Point	Not Determined	Auto Ignition	Not Applicable
Method Used	Not Applicable	Flammability Classification	Not Applicable
Upper Flammable Limit (UFL)	Not Determined		
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. Wear the appropriate eye 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).

**SECTION 8  
 EXPOSURE CONTROLS/PERSONAL PROTECTION**

MATERIAL	WT%	TLV (mg/m <sup>3</sup> )	PEL (mg/m <sup>3</sup> )
Gypsum, Anhydrite or Gypsum/Anhydrite Blend	>95	10	15 (T) / 5 (R)
Crystalline Silica	<1	0.025 (R)	0.1 (R)

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

Appearance	White to off-white	Vapor Density (Air = 1)	Not Applicable
Odor	Low to no odor	Specific Gravity (H <sub>2</sub> O = 1)	~2.32 (Gypsum)
Odor Threshold	Not Determined	Solubility in water (g/100g)	~ 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	~ 45-150 lb/ft <sup>3</sup> / 0.7 - 2.5 kg/m <sup>3</sup>
Evaporation Rate (BuAc = 1)	Not Applicable	Molecular Weight	~172 g/mole
Upper Flammable Limit (UFL)	Not Determined	VOC Content	Zero
Lower Flammable Limit (LFL)	Not Determined	Percent Volatile	Zero
Vapor Pressure (mm Hg)	Not Applicable		

**SECTION 10  
 CHEMICAL STABILITY AND REACTIVITY**

<b>STABILITY</b>	Stable.
<b>CONDITIONS TO AVOID</b>	Contact with incompatibles (see below).
<b>INCOMPATIBILITY</b>	None known.
<b>HAZARDOUS POLYMERIZATION</b>	None known.
<b>HAZARDOUS DECOMPOSITION</b>	Above 1450° C - calcium oxide (CaO) and sulfur dioxide (SO <sub>2</sub> ).

**SECTION 11  
 TOXICOLOGICAL INFORMATION**

**ACUTE EFFECTS:** 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. There have been anecdotal reports of conjunctivitis, chronic rhinitis, laryngitis, pharyngitis, impaired sense of smell and taste, bleeding from the nose, and reactions of tracheal and bronchial membranes in exposed workers. 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:**

The concentration of respirable crystalline silica measured in bulk samples of USG gypsum was less than 0.1 wt. %.

**Crystalline Silica:** 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. The weight percent of respirable crystalline silica may not have been measured in this product. 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.

In June, 1987, 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.

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.

**SECTION 14  
 TRANSPORT INFORMATION**

**U.S. DOT INFORMATION:** Not a hazardous material per DOT shipping requirements. Not classified or regulated.

<b>Shipping Name</b>	Same as product name.
<b>Hazard Class</b>	Not classified.
<b>UNNA #</b>	None. Not classified.
<b>Packing Group</b>	None.
<b>Label (s) Required</b>	Not applicable.
<b>GGVSec/MDG-Code</b>	Not classified.
<b>ICAO/IATA-DGR</b>	Not applicable.
<b>RID/ADR</b>	None.
<b>ADNR</b>	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	3	3	CERCLA	CAA Sec. 112	RCRA Code
Gypsum, Anhydrite or Gypsum/Anhydrite Blend	>95	NL	NL	NL	NL	NL	NL
Crystalline Silica	<1	NL	NL	NL	NL	NL	NL

Key: NL = Not Listed

SARA Title III Section 302 (EPCRA) Extremely Hazardous Substances: Threshold Planning Quantity (TPQ)

SARA Title III Section 304 (EPCRA) Extremely Hazardous Substances: Reportable Quantity (RQ)

SARA Title III Section 313 (EPCRA) Toxic Chemicals: X= Subject to reporting under section 313

CERCLA Hazardous Substances: Reportable Quantity (RQ)


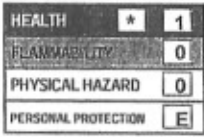
CAA Section 112 (r) Regulated Chemicals for Accidental Release Prevention: Threshold Quantities(TQ)

RCRA Hazardous Waste: RCRA hazardous waste code

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
Gypsum, Anhydrite or Gypsum/Anhydrite Blend	>95	Not Listed	Not Listed
Crystalline Silica	<1	1406	D2A
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			
S-Phrase(s): S51 S38 S39 S2			

**SECTION 16  
 OTHER INFORMATION**

Label Information
<b>Δ CAUTION!</b> Dust may cause irritation to eyes, skin, nose, throat and upper respiratory tract. Avoid irritation by reducing exposure to dust. Use in a well-ventilated area or provide sufficient local ventilation. If dusty, wear a NIOSH/MSHA-approved dust respirator. Wear eye protection. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call physician. Wash with soap and water after use. Do not ingest. If ingested, call physician. Product safety information: (800) 507-8899 or www.usg.com. KEEP OUT OF REACH OF CHILDREN.

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS			
NFPA Ratings:		HIMS Ratings:	
Health: 1		Health: 1	
Fire: 0		Fire: 0	
Reactivity: 0		Reactivity: 0	
E – Safety glasses, gloves and dust respirator			
<b>Key/Legend</b>			
TLV	Threshold Limit Value		
PEL	Permissible Exposure Limit		
CAS	Chemical Abstracts Service (Registry Number)		
NIOSH	National Institute for Occupational Safety and Health		
MSHA	Mine Safety and Health Administration		

OSHA	Occupational Health and Safety Administration
ACGIH	American Conference of Governmental Industrial Hygienists
IARC	International Agency for Research on Cancer
DOT	United States Department of Transportation
EPA	United States Environmental Protection Agency
NFPA	National Fire Protection Association
HMIS	Hazardous Materials Identification System
PPE	Personal Protection Equipment
TSCA	Toxic Substances Control Act
DSL	Canadian Domestic Substances List
NDSL	Canadian Non-Domestic Substances List
SARA	Superfund Amendments and Reauthorization Act of 1986
CAA	Clean Air Act
EPCRA	Emergency Planning & Community Right-to-know Act
RCRA	Resource Conservation and Recovery Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
UN/NA#	United Nations/North America number
CFR	Code of Federal Regulations
WHMIS	Workplace Hazardous Material Information System

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