



MATERIAL SAFETY DATA SHEET

SHEETROCK® Brand Joint Tape

MSDS NO. 06401

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United States Gypsum Company
125 South Franklin Street
Chicago, Illinois 60606-4678

Product Safety: 1 (800) 507-8899
Version Date: October 1, 1999
Version 3

SECTION I PRODUCT IDENTIFICATION

PRODUCT(S): USG SHEETROCK® Brand Joint Tape
CHEMICAL FAMILY: Cellulose

SECTION II INGREDIENTS

MATERIAL	WT%	TLV (mg/m ³)	PEL (mg/m ³)	CAS NUMBER
Cellulose Fiber	>99	10	15(T)/5(R)	9004-34-6
Limestone	<1	10	15(T)/5(R)	1317-65-3
Aluminum Sulfate	<1	NE	NE	10043-01-3
Silica-Crystalline, Respirable	<1	0.1(R)	0.1(R)	14808-60-7
(T) – Total (R) – Respirable (NE) – Not Established				

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings: Health: 0 Fire: 0 Reactivity: 0 Other: N/A
HMIS Ratings: Health: 0 Fire: 0 Reactivity: 0
Personal Protection: Use eye and skin protection. Use NIOSH/MSHA-approved respiratory protection when necessary.
0 = Minimal Hazard 1 = Slight Hazard 2 = Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard

SECTION III PHYSICAL DATA

Appearance and Odor: Manila paper in various widths.
Specific Gravity (H₂O = 1): Less than 1
Solubility in Water: Insoluble

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): None*
Auto Ignition Temperature: 450°F
Extinguishing Media: Water, CO₂, foam, dry chemical
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: None
Special Fire Fighting Protective Equipment: None

* If paper fiber or dust is dried to a bone dry condition, a paper or cellulose dust explosion problem exists. Emits toxic gases under fire conditions.

SECTION V



HEALTH HAZARD DATA

Typical use of this product would not create a health hazard. However, it may be possible to create and release nuisance dust from this product during handling or use. For example, if sanding joint tape occurs then nuisance dust would be created. Eye, nose, throat, and upper respiratory irritation may occur with prolonged exposure to high dust concentrations.

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: None known.

INHALATION: Exposure to dust may produce irritation of the nose, throat, and upper respiratory system. Persons subjected to overexposure to large amounts of dust will be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation from dust. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.

INGESTION: None known.

CHRONIC: This material displays no specific toxic properties>

EYES: None known.

SKIN: None known.

INHALATION: Chronic overexposure to respirable crystalline silica may result in lung disease (i.e., silicosis) and/or lung cancer.

INGESTION: No Known effects.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush thoroughly with plenty of water for 15 minutes to remove particles. If irritation persists, consult physician.

SKIN: If cut by edge of paper, treat as any paper cut. Take appropriate action to prevent infection and promote healing.

INHALATION: Remove to fresh air. Leave the area of dust exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however, if conditions warrant, contact physician.

INGESTION: No harmful effects expected. No specific recommendation. If gastric disturbance occurs, call physician.

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; Eye and/or Skin contact.

CARCINOGENICITY OF INGREDIENTS:

MATERIAL
Crystalline Silica

IARC
Group 1

NTP
Anticipated

In June, 1997, the International Agency for Research on Cancer (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 studies. 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 VI
REACTIVITY DATA

STABILITY: Stable.
INCOMPATIBILITY: High temperatures.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂

SECTION VII
SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Use normal clean up procedure.

WASTE DISPOSAL METHOD:

Dispose of material in accordance with federal, state, and local regulations.

SECTION VIII
SPECIAL PROTECTION INFORMATION

Personal protection is typically not necessary under normal conditions of use.

RESPIRATORY PROTECTION:

Not typically necessary under normal conditions of use. Wear a NIOSH/MSHA-approved respirator when dusty conditions exist, in poorly ventilated areas, for protection against nuisance particles.

VENTILATION:

General ventilation is expected to be satisfactory.

PERSONAL PROTECTIVE EQUIPMENT:

Wear eye protection (safety glasses or goggles) to avoid particulate irritation of the eye. Gloves or protective clothing are usually not necessary, but may be desirable in specific work situations.

SECTION IX
SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in a dry place. Paper stored in wet conditions can become a fire hazard via methane production by microbe activity.

⚠WARNING!

Avoid exposure to dust. Dust may cause eye, nose, throat or respiratory irritation. Avoid eye contact or inhalation of dust. Wear eye protection. If eye contact occurs, flush thoroughly with water. If dusty conditions exist, wear a NIOSH/MSHA-approved respirator to prevent coughing, sneezing and respiratory irritation. Do not ingest. If there is any discomfort, consult physician. Product safety information: (800) 507-8899.

KEEP OUT OF REACH OF CHILDREN.

DOD Hazardous Materials Information System
DoD 6050.5-L
AS OF July 1998

FSC: 6850
NIIN: 00F052807
Manufacturer's CAGE: 61357
Part No. Indicator: A
Part Number/Trade Name: DURABOND 45 JOINT COMPOUND

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General Information

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Item Name:
Company's Name: UNITED STATES GYPSUM COMPANY
Company's Street: 125 S FRANKLIN ST DEPT 147-4
Company's P. O. Box: N/K
Company's City: CHICAGO
Company's State: IL
Company's Country: US
Company's Zip Code: 60606-4678
Company's Emerg Ph #: 312-606-4542
Company's Info Ph #: 312-606-4542
Distributor/Vendor # 1:
Distributor/Vendor # 1 Cage:
Distributor/Vendor # 2:
Distributor/Vendor # 2 Cage:
Distributor/Vendor # 3:
Distributor/Vendor # 3 Cage:
Distributor/Vendor # 4:
Distributor/Vendor # 4 Cage:
Safety Data Action Code:
Safety Focal Point: F
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SE
Date MSDS Prepared: 20APR93
Safety Data Review Date: 11FEB97
Supply Item Manager:
MSDS Preparer's Name:
Preparer's Company: UNITED STATES GYPSUM COMPANY
Preparer's St Or P. O. Box: 125 S FRANKLIN ST DEPT 147-4
Preparer's City: CHICAGO
Preparer's State: IL
Preparer's Zip Code: 60606-4678
Other MSDS Number:
MSDS Serial Number: CDFNH
Specification Number:
Spec Type, Grade, Class:
Hazard Characteristic Code:
Unit Of Issue:
Unit Of Issue Container Qty:
Type Of Container:
Net Unit Weight:

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NRC/State License Number:
Net Explosive Weight:
Net Propellant Weight-Ammo:
Coast Guard Ammunition Code:

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Ingredients/Identity Information

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Proprietary: NO
Ingredient: PLASTER OF PARIS; GYPSUM HEMIHYDRATE
Ingredient Sequence Number: 01
Percent: 55-90
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: TP0700000
CAS Number: 26499-65-0
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K
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Proprietary: NO
Ingredient: CALCIUM CARBONATE, DOMOLITE, LIMESTONE, WHITING *96-4*
Ingredient Sequence Number: 02
Percent: 0-25
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: EV9580000
CAS Number: 1317-65-3
OSHA PEL: N/K
ACGIH TLV: 10 MG/CUM (DUST)
Other Recommended Limit: N/K
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Proprietary: NO
Ingredient: SILICA, MICA, MUSCOVITE
Ingredient Sequence Number: 03
Percent: 0-18
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: VV8760000
CAS Number: 12001-26-2
OSHA PEL: N/K
ACGIH TLV: 3 MG/CUM
Other Recommended Limit: N/K
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Proprietary: NO
Ingredient: PERLITE
Ingredient Sequence Number: 04
Percent: 0-12
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: SD5254000
CAS Number: 93763-70-3
OSHA PEL: 15 MG/CUM TOTAL DUST
ACGIH TLV: 10 MG/CUM TOTAL DUST

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Other Recommended Limit: 30 MPPCF MSHA STD

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Proprietary: NO
Ingredient: ATTAPULGITE CLAY, HYDROUS MAGNESIUM ALUMINUM SILICATE
Ingredient Sequence Number: 05
Percent: 0-9
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: RT6400000
CAS Number: 12174-11-7
OSHA PEL: N/K

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ACGIH TLV: N/K
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: POLYVINYL ALCOHOL
Ingredient Sequence Number: 06
Percent: 0-3
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: TR8100000
CAS Number: 9002-89-5
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: POLYVINYL ACETATE, VINYL ACETATE POLYMER
Ingredient Sequence Number: 07
Percent: 0-2
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: AK0920000
CAS Number: 9003-20-7
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: DOUBLE HYDRATED DOLOMITIC LIME
Ingredient Sequence Number: 08
Percent: 0-1
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: 1004915DL
CAS Number: 39445-23-3
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: POTASSIUM SULFATE
Ingredient Sequence Number: 09

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Percent: 0-1
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: TT5900000
CAS Number: 7778-80-5
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: KERATINS, HYDROLYZATES
Ingredient Sequence Number: 10
Percent: 0-0.5
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: 1009633KH

CAS Number: 69430-36-0
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: BIS(DIMETHYLDITHIOCARBAMATO)ZINC, ZIRAM
Ingredient Sequence Number: 11
Percent: 0-0.09
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: ZH0525000
CAS Number: 137-30-4
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: STARCH; VANCIDE MZ-96
Ingredient Sequence Number: 12
Percent: 0-0.2
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: GM5090000
CAS Number: 9005-25-8
OSHA PEL: N/K
ACGIH TLV: 10 MG/CUM TOTAL DUST
Other Recommended Limit: NUISANCE PARTICULATE

Proprietary: NO
Ingredient: HYDROXYPROPYL METHYCELLULOSE
Ingredient Sequence Number: 13
Percent: 0-0.5
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: NF9125000
CAS Number: 9004-65-3

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OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: SORBITOL
Ingredient Sequence Number: 14
Percent: 0-0.5
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: LZ4290000
CAS Number: 50-70-4
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: HYDROXYETHYL CELLULOSE, 2-HYDROXYETHYL ETHER CELLULOSE,
NATROSOL
Ingredient Sequence Number: 15
Percent: 0-0.2

Ingredient Action Code:
 Ingredient Focal Point: F
 NIOSH (RTECS) Number: FJ5958000
 CAS Number: 9004-62-0
 OSHA PEL: N/K
 ACGIH TLV: N/K
 Other Recommended Limit: N/K

 Proprietary: NO
 Ingredient: CITRIC ACID, ANHYDROUS CITRIC ACID * 96-4 *
 Ingredient Sequence Number: 16
 Percent: <0.2
 Ingredient Action Code:
 Ingredient Focal Point: F
 NIOSH (RTECS) Number: GE7350000
 CAS Number: 77-92-9
 OSHA PEL: N/K
 ACGIH TLV: N/K
 Other Recommended Limit: N/K

 Proprietary: NO
 Ingredient: SODIUM CITRATE, TRISODIUM SALT, CITRIC ACID
 Ingredient Sequence Number: 17
 Percent: <0.2
 Ingredient Action Code:
 Ingredient Focal Point: F
 NIOSH (RTECS) Number: GE8300000
 CAS Number: 68-04-2
 OSHA PEL: N/K
 ACGIH TLV: N/K
 Other Recommended Limit: N/K

Report for NIIN: 00F052807

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Physical/Chemical Characteristics

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Appearance And Odor: OFF WHITE TO GRAY POWDER; LOW ODOR
 Boiling Point: N/K
 Melting Point: N/K
 Vapor Pressure (MM Hg/70 F): N/K
 Vapor Density (Air=1): N/K
 Specific Gravity: 2.5-2.6
 Decomposition Temperature: N/K
 Evaporation Rate And Ref: N/K
 Solubility In Water: 0.15%
 Percent Volatiles By Volume: N/K
 Viscosity:
 pH: N/K
 Radioactivity:
 Form (Radioactive Matl):
 Magnetism (Milligauss):
 Corrosion Rate (IPY): N/K
 Autoignition Temperature:

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Fire and Explosion Hazard Data

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Flash Point: NONE
 Flash Point Method: N/P
 Lower Explosive Limit: N/K
 Upper Explosive Limit: N/K

Extinguishing Media: NON-COMBUSTIBLE
 Special Fire Fighting Proc: NONE
 Unusual Fire And Expl Hazrds: NONE

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Reactivity Data

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Stability: YES
 Cond To Avoid (Stability): N/K
 Materials To Avoid: N/K
 Hazardous Decomp Products: N/K
 Hazardous Poly Occur: NO
 Conditions To Avoid (Poly): N/K

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Health Hazard Data

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LD50-LC50 Mixture:
 Route Of Entry - Inhalation: YES
 Route Of Entry - Skin: NO
 Route Of Entry - Ingestion: NO
 Health Haz Acute And Chronic: EYES: MAY CAUSE IRRITATION. SKIN: MY CAUSE
 SEVERE BURNS THAT MAY REQUIRE SURGICAL REMOVAL OF AFFECTED TISSUE.
 INHALATION: IRRITATION TO THE EYES, NOSE, THROAT/UPPER RESPIRATORY SYSTEM.
 LONG TERM EXPOSURE MAY CAUSE LUNG DAMAGE (PULMONARY FIBROSIS).
 Carcinogenicity - NTP: NO
 Carcinogenicity - IARC: NO
 Carcinogenicity - OSHA: NO

Report for NIIN: 00F052807

Explanation Carcinogenicity: NONE
 Signs/Symptoms Of Overexp: IRRITATION, BURNS
 Med Cond Aggravated By Exp: PRE-EXISTING UPPER RESPIRATORY & LUNG DISEASE
 SUCH AS BRONCHITIS, EMPHYSEMA & ASTHMA.
 Emergency/First Aid Proc: EYES: FLUSH W/WATER FOR 15 MINS. SKIN: WASH
 W/SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. INGESTION: MAY RESULT IN
 OBSTRUCTION.

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: SWEEP UP, AVOID CREATING EXCESSIVE DUST. IF
 WASHED DOWN, MAY PLUG DRAINS. IF ALREADY MIXED W/WATER, SCRAPE UP & WASH
 DOWN RESIDUE.
 Neutralizing Agent: N/K
 Waste Disposal Method: DISPOSE OF TO SANITARY LANDFILL IN ACCORDANCE W/
 LOCAL, STATE & FEDERAL REGULATIONS.
 Precautions-Handling/Storing: KEEP DRY. DEW POINT CONDITIONS/OTHER
 CONDITIONS CAUSING PRESENCE OF LIQUID WILL HARDEN THIS MATERIAL DURING
 STORAGE.
 Other Precautions: N/K

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Control Measures

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Respiratory Protection: WEAR A NIOSH-APPROVED DUST RESPIRATOR.
 Ventilation: GENERAL MECHANICAL/LOCAL EXHAUST.
 Protective Gloves: N/K
 Eye Protection: SAFETY GLASSES/GOGGLES
 Other Protective Equipment: N/K
 Work Hygienic Practices: N/K
 Suppl. Safety & Health Data: N/K

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Transportation Data

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Transportation Action Code:
Transportation Focal Point:
Trans Data Review Date:
DOT PSN Code:
DOT Symbol:
DOT Proper Shipping Name:
DOT Class:
DOT ID Number:
DOT Pack Group:
DOT Label:
DOT/DoD Exemption Number:
IMO PSN Code:
IMO Proper Shipping Name:
IMO Regulations Page Number:
IMO UN Number:
IMO UN Class:
IMO Subsidiary Risk Label:
IATA PSN Code:
IATA UN ID Number:
IATA Proper Shipping Name:

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IATA UN Class:
IATA Subsidiary Risk Class:
IATA Label:
AFI PSN Code:
AFI Symbols:
AFI Prop. Shipping Name:
AFI Class:
AFI ID Number:
AFI Pack Group:
AFI Label:
AFI Special Prov:
AFI Basic Pac Ref:
MMAC Code:
N.O.S. Shipping Name:
Additional Trans Data:

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                          Disposal Data
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Disposal Data Action Code:
Disposal Data Focal Point:
Disposal Data Review Date:
Rec # For This Disp Entry:
Tot Disp Entries Per NSN:
Landfill Ban Item:
Disposal Supplemental Data:
1st EPA Haz Wst Code New:
1st EPA Haz Wst Name New:
1st EPA Haz Wst Char New:
1st EPA Acute Hazard New:
2nd EPA Haz Wst Code New:
2nd EPA Haz Wst Name New:
2nd EPA Haz Wst Char New:
2nd EPA Acute Hazard New:
3rd EPA Haz Wst Code New:
3rd EPA Haz Wst Name New:
3rd EPA Haz Wst Char New:
3rd EPA Acute Hazard New:

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Label Data

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Label Required:
Technical Review Date:
Label Date:
MFR Label Number:
Label Status:
Common Name:
Chronic Hazard:
Signal Word:
Acute Health Hazard-None:
Acute Health Hazard-Slight:
Acute Health Hazard-Moderate:
Acute Health Hazard-Severe:
Contact Hazard-None:

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Contact Hazard-Slight:
Contact Hazard-Moderate:
Contact Hazard-Severe:
Fire Hazard-None:
Fire Hazard-Slight:
Fire Hazard-Moderate:
Fire Hazard-Severe:
Reactivity Hazard-None:
Reactivity Hazard-Slight:
Reactivity Hazard-Moderate:
Reactivity Hazard-Severe:
Special Hazard Precautions:
Protect Eye:
Protect Skin:
Protect Respiratory:
Label Name:
Label Street:
Label P.O. Box:
Label City:
Label State:
Label Zip Code:
Label Country:
Label Emergency Number:
Year Procured:



MATERIAL SAFETY DATA SHEET

SHEETROCK® Gypsum Panels FIRECODE® CORE, Type X

MSDS #54-010-006

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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
www.usg.com
Version Date: January 1, 2011
Version: 7

PRODUCT(S) SHEETROCK® Gypsum Panels FIRECODE® CORE, Type X

**CHEMICAL FAMILY /
GENERAL CATEGORY** Wallboard, Type X

SYNONYMS Gypsum Panels, Drywall

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. This product does not present an inhalation, ingestion, or contact health hazard unless subjected to operations such as sawing, sanding or machining which result in the generation of airborne particulate. This product contains quartz (crystalline silica) as a naturally occurring contaminant.

POTENTIAL HEALTH EFFECTS (See Section 11 for more information)

ACUTE :

Inhalation	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 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 temporary 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	<p>The concentration of respirable crystalline silica measured in bulk samples of USG gypsum was less than 0.1 Wt.%. Industrial hygiene testing, following the NIOSH Method 7500, did not detect respirable crystalline silica in dust created during the cutting of USG gypsum wallboard panels by both the recommended score and snap technique and with the use of a power saw in a 10ft by 10ft room.</p> <p>Panels do not release respirable dust in their installed state and therefore do not present any known health hazards when installed and properly maintained. 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. 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.</p>
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SHEETROCK® Gypsum Panels FIRECODE® CORE, Type X

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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
FibrousGlass/Continuous Filament	3	2	A4	Not Listed
Crystalline silica	1	1	A2	Listed
Vinyl Acetate Monomer	2B	Not Listed	A3	Not Listed
Acetaldehyde	2B	2	A3	Listed
Formaldehyde	1	2	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.

POTENTIAL ENVIRONMENTAL EFFECTS: Toxicity studies of gypsum 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 #
Gypsum or Calcium Sulfate Dihydrate (CaSO ₄ •2H ₂ O)	>85	13397-24-5/10101-41-4
Cellulose	<10	9004-34-6
Starch	<3	9005-25-8
Fibrous Glass (Continuous Filament)	<1	65997-17-3#
Crystalline Silica	<5	14808-60-7^
May be available with foil-backing:		[]
Aluminum Foil (as Aluminum and Cmpds)	<3	7429-90-5
Ethylene Vinyl Acetate Polymer	<2	24937-78-8

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).

#As manufactured, continuous filament glass fibers are not respirable. Continuous filaments that are chopped, crushed, or severely mechanically processed during manufacture or use may contain very small amounts of respirable



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particulates. ^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	None known		
Flash Point	Not Determined	Auto Ignition	Not Applicable
Method Used	Not Applicable	Flammability Classification	Not Applicable
Upper Flammable Limit (UFL)	Not Determined	Rate of Burning	Not Applicable
Lower Flammable Limit (LFL)	Not Determined		

SECTION 6 ACCIDENTAL RELEASE MEASURES

CONTAINMENT: Collect panels from spillage and if not damaged or contaminated by foreign material, panels may be reclaimed.

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. When moving board with a forklift or similar equipment, it is essential that the equipment be rated capable of handling the loads. The forks should always be long enough to extend completely through the width of the load. Fork spacing between supports should be one half the length of the panels or base being handled so that a maximum of 4' extends beyond the supports on either end.

Follow traditional building practices; such as management of water away from the interior of the structure to avoid the growth of mold, mildew and fungus. Remove any building products suspected of being exposed to sustained moisture and considered conducive to mold growth from the jobsite.

Gypsum panels are very heavy awkward loads posing the risk of severe back injury. Use proper lifting techniques.

STORAGE: Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities (see Section 10). Protect product from physical damage.

Protect from weather and prevent exposure to sustained moisture.

Gypsum Association literature recommends storing board flat to avoid damaging edges, warping the board and the potential safety hazards of the board falling over. However, in other situations, storing the board flat may cause a tripping hazard or exceed floor limit loads. If stacking board vertically, leave at least 4 inches from the wall to decrease the risk of falling board and no more than 6 inches to avoid too much lateral weight against the wall.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL	WT%	TLV (mg/m ³)	PEL(mg/m ³)
Gypsum or Calcium Sulfate Dihydrate (CaSO ₄ •2H ₂ O)	>85	10	15 (T) / 5 (R)
Cellulose	<10	10	15 (T) / 5 (R)
Starch	<3	10	15 (T) / 5 (R)
Fibrous Glass (Continuous Filament)	<1	1 f/cc (R) *	15 (T) / 5 (R)
Crystalline Silica	<5	0.025 (R)	0.1 (R)
May be available with foil-backing:		[]
Aluminum Foil (as Aluminum and Cmpds)	<3	10	15 (T) / 5 (R)
Ethylene Vinyl Acetate Polymer	<2	(NE)	(NE)

(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

*ACGIH: 1 fiber/cubic centimeter air for fibers longer than 5 micrometers and thinner than 3 micrometers. Continuous filaments that are chopped, crushed, or severely mechanically processed during manufacture or use may contain very small amounts of respirable particulates [PEL = 5 mg/m³(R)].

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.



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SHEETROCK® Gypsum Panels FIRECODE® CORE, Type X

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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	Paper with gray to off white core	Vapor Density (Air = 1)	Not Applicable
Odor	Low to no odor	Specific Gravity (H ₂ O = 1)	2.32 – 2.96
Odor Threshold	Not Determined	Solubility in water (g/100g)	0.26/100g
Physical State	Solid	Partition Coefficient	Not Applicable
pH @ 25 ° C	~ 7	Auto-ignition Temp	Not Determined
Melting Point	Not Applicable	Decomposition Temp	2650°F/1450°C
Freezing Point	Not Applicable	Viscosity	Not Applicable
Boiling Point	Not Applicable	Particle Size	Varies
Flash Point	Not Determined	Bulk Density	~ 55 lb/ft ³
Evaporation Rate (BuAc = 1)	Not Applicable	Molecular Weight	~ 172
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 incompatibles (see below).
INCOMPATIBILITY	None known.
HAZARDOUS POLYMERIZATION	None known.
HAZARDOUS DECOMPOSITION	None known.



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: Panels do not release respirable dust in their installed state and therefore do not present any known health hazards when installed and properly maintained.

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. Smoking in combination with silica exposures increases the risk of cancer. 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 of gypsum performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect.

Ecotoxicity value	Not determined.
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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.



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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
Gypsum or Calcium Sulfate Dihydrate (CaSO ₄ •2H ₂ O)	>85	NL	NL	NL	NL	NL	NL
Cellulose	<10	NL	NL	NL	NL	NL	NL
Starch	<3	NL	NL	NL	NL	NL	NL
Fibrous Glass (Continuous Filament)	<1	NL	NL	NL	NL	NL	NL
Crystalline Silica	<5	NL	NL	NL	NL	NL	NL
May be available with foil-backing:		[]					
Aluminum Foil (as Aluminum and Cmpds)	<3	NL	NL	X	NL	NL	NL
Ethylene Vinyl Acetate Polymer	<2	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
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Gypsum or Calcium Sulfate Dihydrate (CaSO ₄ •2H ₂ O)	>85	Not Listed	Not Listed
Cellulose	<10	Not Listed	Not Listed
Starch	<3	Not Listed	Not Listed
Fibrous Glass (Continuous Filament)	<1	Not Listed	Not Listed
Crystalline Silica	<5	1406	D2A
May be available with foil-backing:		[]
Aluminum Foil (as Aluminum and Cmpds)	<3	47	Not Listed
Ethylene Vinyl Acetate Polymer	<2	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

S-Phrase(s): S51 S38 S39

SECTION 16 OTHER INFORMATION

Label Information

Δ WARNING!

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. If cutting board with a power tool, use a wet or vacuum saw to reduce the amount of dust generated. Panels are heavy and can fall over, causing serious injury or death. Avoid creating a tripping hazard and do not exceed floor limit loads. 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

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0		HMIS Ratings: Health: 1 Fire: 0 Reactivity: 0	HEALTH * 1	0 = Minimal Hazard
			FLAMMABILITY 0	1 = Slight Hazard
			PHYSICAL HAZARD 0	2 = Moderate Hazard
			PERSONAL PROTECTION E	3 = Serious Hazard
				4 = Severe Hazard

E – Safety glasses, gloves and dust respirator; * - Contains silica

Key/Legend

ANSI	American National Standards Institute
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
DSL	Canadian Domestic Substances List



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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
Chicago, IL 60661-3637

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his/her own particular use.

END



MATERIAL SAFETY DATA SHEET

SHEETROCK® Lightweight All Purpose Joint Compound

Ready Mixed Plus 3 with Dust Control

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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
www.usg.com
Version Date: January 1, 2011
Version: 6

PRODUCT(S) SHEETROCK® Lightweight All Purpose Joint Compound Ready Mixed Plus 3 with Dust Control

**CHEMICAL FAMILY /
GENERAL CATEGORY** Joint Treatment

SYNONYMS Joint Compound, Taping Compound, Mud

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. This product is formulated to reduce airborne sanding dust and therefore significantly reduces the risk of exposure to high dust levels.

POTENTIAL HEALTH EFFECTS (See Section 11 for more information)

ACUTE :

Inhalation	Exposure to dust generated during the handling or sanding of the product may cause temporary irritation to 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. This product is formulated to reduce airborne sanding dust and therefore significantly reduces the risk of exposure to high dust levels.
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Eyes	Dust can cause temporary mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician.
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Skin	None known.
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Ingestion	None known.
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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.
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Eyes	None known.
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Skin	None known.
------	-------------

Ingestion	None known.
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TARGET ORGANS: Eyes, skin and respiratory system.

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



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SHEETROCK® Lightweight All Purpose Joint Compound

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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
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Crystalline silica	1	1	A2	Listed
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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 184.1409] – Ground limestone 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 #
Water	>35	7732-18-5
Limestone	>35	1317-65-3
Expanded Perlite	<15	93763-70-3
Blend of mineral, binder & water-soluble polymer	<10	Proprietary*
Crystalline Silica	<5	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).

*New Jersey Trade Secret Registry Number (NJTSRN): 80100338-5007^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.



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Ingestion	This product is not intended to be ingested or eaten. If gastric disturbance occurs, call physician.
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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 800° C – limestone may decompose to calcium oxide (CaO) and carbon dioxide (CO ₂). Above 175° C – polyvinyl acetate may decompose to H ₂ O, CO ₂ , CO, and acetic acid, could produce vinyl acetate monomers.		
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 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). Do not use if material has spoiled, i.e., there is a moldy appearance or an unpleasant odor. Close container and discard properly. Keep tightly sealed following use.



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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL	WT%	TLV (mg/m ³)	PEL (mg/m ³)
Water	>35	(NE)	(NE)
Limestone	>35	10	15 (T) / 5 (R)
Expanded Perlite	<15	10	15 (T) / 5 (R)
Blend of mineral, binder & water-soluble polymer	<10	(NE)	(NE)
Crystalline Silica	<5	0.025 (R)	0.1 (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

Appearance	Off white	Vapor Density (Air = 1)	< 1(same as water)
Odor	Low to no odor	Specific Gravity (H ₂ O = 1)	1.3 - 1.7
Odor Threshold	Not Determined	Solubility in water (g/100g)	Unlimited dispersibility
Physical State	Paste	Partition Coefficient	Not Determined
pH @ 25 °C	~ 7-8.5	Auto-ignition Temp	Not Determined
Melting Point	Not Applicable	Decomposition Temp	Not Determined
Freezing Point	32°F/ 0°C	Viscosity	Not Determined
Boiling Point	212°F/ 100°C	Particle Size	99% Finer than 250 microns
Flash Point	Not Determined	Bulk Density	1.3-1.7 kg/L



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Evaporation Rate (BuAc = 1)	Not Determined	Molecular Weight	Mixture
Upper Flammable Limit (UFL)	Not Determined	VOC Content	<2 g/L
Lower Flammable Limit (LFL)	Not Determined	Percent Volatile	35-50
Vapor Pressure (mm Hg)	~24 mmHg@ 25°C		

SECTION 10 CHEMICAL STABILITY AND REACTIVITY

STABILITY	Stable.
CONDITIONS TO AVOID	High temperatures cause decomposition (see below). DNPH, commonly used to determine formaldehyde concentrations, will react with this product resulting in formaldehyde formation. Thus formaldehyde may be reported as higher than actual and in error.
INCOMPATIBILITY	None known.
HAZARDOUS POLYMERIZATION	None known.
HAZARDOUS DECOMPOSITION	Above 800° C – limestone may decompose to calcium oxide (CaO) and carbon dioxide (CO ₂). Above 175° C – polyvinyl acetate may decompose to H ₂ O, CO ₂ , CO, and acetic acid, could produce vinyl acetate monomers.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE EFFECTS: None known.

CHRONIC EFFECTS / CARCINOGENICITY:

There is no vinyl acetate/acetaldehyde/formaldehyde added to this product: Ethylene vinyl acetate polymer is a common emulsion polymer most familiar as the component of ordinary white glue which exhibits the “sticky” characteristic. Ethylene vinyl acetate polymer is not classified as a carcinogen by IARC, NTP or ACGIH. Trace amounts of residual vinyl acetate monomers, acetaldehyde and formaldehyde may be associated with the production of ethylene vinyl acetate polymer. Any exposure to vinyl acetate monomer, acetaldehyde, or formaldehyde is expected to remain well below OSHA regulatory and ACGIH recommended limits during normal handling and use of this product.

Crystalline Silica: Industrial hygiene atmospheric respirable crystalline silica testing did not detect any respirable crystalline silica during the sanding of SHEETROCK® Brand Lightweight All Purpose Joint Compound Ready Mixed Plus 3 with Dust Control. Samples taken within the breathing zone of workers while sanding on the jobsite were collected and analyzed according to NIOSH test methods 600 and 7500. 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. The development of silicosis may increase the risks of additional health effects. Smoking in combination with silica exposures increases the risk of cancer. The risk of developing silicosis is dependent upon the exposure intensity and duration.



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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).

Industrial hygiene measurement for exposures to formaldehyde cannot use 2,4-dinitrophenylhydrazine (DNPH) in sample collection or during analysis due to reaction with an ingredient in this product that will produce formaldehyde. Sample results will show higher concentrations of formaldehyde than actually exist employing DNPH anywhere in the analytical method. Previous standard IH sampling measurement using DNPH have shown formaldehyde exposure concentrations well below 8 hour time weighted average occupational exposure standards including the DNPH error.

SECTION 12 ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY: This product has no known adverse effect on ecology.

Ecotoxicity value	Not determined.
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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.

Shipping Name	Same as product name.
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Hazard Class	Not classified.
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UN/NA #	None. Not classified.
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Packing Group	None.
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Label (s) Required	Not applicable.
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GGVSec/MDG-Code	Not classified.
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ICAO/IATA-DGR	Not applicable.
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RID/ADR	None.
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ADNR	None.
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SECTION 15 REGULATORY INFORMATION



MATERIAL SAFETY DATA SHEET

SHEETROCK® Lightweight All Purpose Joint Compound

Ready Mixed Plus 3 with Dust Control

MSDS #61-362-001

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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
Water	>35	NL	NL	NL	NL	NL	NL
Limestone	>35	NL	NL	NL	NL	NL	NL
Expanded Perlite	<15	NL	NL	NL	NL	NL	NL
Blend of mineral, binder & water-soluble polymer	<10	NL	NL	NL	NL	NL	NL
Crystalline Silica	<5	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
Water	>35	Not Listed	Not Listed
Limestone	>35	Not Listed	D2A
Expanded Perlite	<15	Not Listed	D2A
Blend of mineral, binder & water-soluble polymer	<10	Not Listed	Not Listed
Crystalline Silica	<5	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): None known.

SECTION 16 OTHER INFORMATION



MATERIAL SAFETY DATA SHEET

SHEETROCK® Lightweight All Purpose Joint Compound Ready Mixed Plus 3 with Dust Control

MSDS #61-362-001

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Label Information

Δ CAUTION!

Dust generated from sanding product 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. 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

NFPA Ratings:			HMIS Ratings:		<table><tr><td>HEALTH</td><td>*</td><td>1</td></tr><tr><td>FLAMMABILITY</td><td></td><td>0</td></tr><tr><td>PHYSICAL HAZARD</td><td></td><td>0</td></tr><tr><td>PERSONAL PROTECTION</td><td></td><td>E</td></tr></table>	HEALTH	*	1	FLAMMABILITY		0	PHYSICAL HAZARD		0	PERSONAL PROTECTION		E	0 = Minimal Hazard
HEALTH	*		1															
FLAMMABILITY			0															
PHYSICAL HAZARD			0															
PERSONAL PROTECTION		E																
Health:	1	Health:	1	1 = Slight Hazard														
Fire:	0	Fire:	0	2 = Moderate Hazard														
Reactivity:	0	Reactivity:	0	3 = Serious Hazard														
					4 = Severe Hazard													

E – Safety glasses, gloves and dust respirator; * - Contains silica

Key/Legend

ANSI	American National Standards Institute
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
DSL	Canadian Domestic Substances List
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



MATERIAL SAFETY DATA SHEET

MSDS #61-362-001

SHEETROCK® Lightweight All Purpose Joint Compound Ready Mixed Plus 3 with Dust Control

Page 9 of 9

Prepared by:
Product Safety
USG Corporation
550 West Adams Street
Chicago, IL 60661-3637

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his/her own particular use.

END



MATERIAL SAFETY DATA SHEET

SHEETROCK® Gypsum Panels

MSDS #54-000-001

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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
www.usg.com
Version Date: June 1, 2008
Version: 6

PRODUCT(S) SHEETROCK® Gypsum Panels

**CHEMICAL FAMILY /
GENERAL
CATEGORY** Wallboard

SYNONYMS Gypsum Panels, Drywall

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.

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	<p>The concentration of respirable crystalline silica measured in bulk samples of USG gypsum was less than 0.1 Wt.%. Industrial hygiene testing, following the NIOSH Method 7500, did not detect respirable crystalline silica in dust created during the cutting of USG gypsum wallboard panels by both the recommended score and snap technique and with the use of a power saw in a 10ft by 10ft room.</p> <p>Panels do not release respirable dust in their installed state and therefore do not present any known health hazards when installed and properly maintained. 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.</p>
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
Fibrous Glass/Continuous Filament	3	2	A4	Not Listed
Vinyl Acetate Monomer	2B	Not Listed	A3	Not Listed
Acetaldehyde	2B	2	A3	Listed
Formaldehyde	1	2	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.

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 or Calcium Sulfate Dihydrate ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$)	>85	13397-24-5/10101-41-4
Cellulose	<10	9004-34-6
Starch	<3	9005-25-8
Crystalline Silica	<1	14808-60-7
May Contain:		[]
Fibrous Glass (Continuous Filament)	<1	65997-17-3#
May be available with foil-backing:		[]
Aluminum Foil (as Aluminum and Compds)	<3	7429-90-5
Ethylene Vinyl Acetate Polymer	<2	24937-78-8

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. As manufactured, continuous filament glass fibers are not respirable. Continuous filaments that are chopped, crushed, or severely mechanically processed during manufacture or use may contain very small amounts of respirable particulates.



MATERIAL SAFETY DATA SHEET

SHEETROCK® Gypsum Panels

MSDS #54-000-001

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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	None known		
Flash Point	Not Determined	Auto Ignition	Not Applicable
Method Used	Not Applicable	Flammability Classification	Not Applicable
Upper Flammable Limit (UFL)	Not Determined	Rate of Burning	Not Applicable
Lower Flammable Limit (LFL)	Not Determined		

SECTION 6 ACCIDENTAL RELEASE MEASURES

CONTAINMENT: Collect panels from spillage and if not damaged or contaminated by foreign material, panels may be reclaimed.

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.



MATERIAL SAFETY DATA SHEET

SHEETROCK® Gypsum Panels

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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. When moving board with a forklift or similar equipment, it is essential that the equipment be rated capable of handling the loads. The forks should always be long enough to extend completely through the width of the load. Fork spacing between supports should be one half the length of the panels or base being handled so that a maximum of 4' extends beyond the supports on either end.

Follow traditional building practices; such as management of water away from the interior of the structure to avoid the growth of mold, mildew and fungus. Remove any building products suspected of being exposed to sustained moisture and considered conducive to mold growth from the jobsite.

Gypsum panels are very heavy awkward loads posing the risk of severe back injury. Use proper lifting techniques.

STORAGE: Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities (see Section 10). Protect product from physical damage.

Protect from weather and prevent exposure to sustained moisture.

Gypsum Association literature recommends storing board flat to avoid damaging edges, warping the board and the potential safety hazards of the board falling over. However, in other situations, storing the board flat may cause a tripping hazard or exceed floor limit loads. If stacking board vertically, leave at least 4 inches from the wall to decrease the risk of falling board and no more than 6 inches to avoid too much lateral weight against the wall.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL	WT%	TLV (mg/m ³)	PEL (mg/m ³)
Gypsum or Calcium Sulfate Dihydrate (CaSO ₄ •2H ₂ O)	>85	10	15 (T) / 5 (R)
Cellulose	<10	10	15 (T) / 5 (R)
Starch	<3	10	15 (T) / 5 (R)
Crystalline Silica	<1	0.025 (R)	0.1 (R)
May Contain:		[]
Fibrous Glass (Continuous Filament)	<1	1 f/cc (R) *	15 (T) / 5 (R)
May be available with foil-backing:		[]
Aluminum Foil (as Aluminum and Compds)	<3	10	15 (T) / 5 (R)
Ethylene Vinyl Acetate Polymer	<2	(NE)	(NE)

(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

*ACGIH: 1 fiber/cubic centimeter air for fibers longer than 5 micrometers and thinner than 3 micrometers. Continuous filaments that are chopped, crushed, or severely mechanically processed during manufacture or use may contain very small amounts of respirable particulates [PEL = 5 mg/m³(R)].

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.



MATERIAL SAFETY DATA SHEET

SHEETROCK® Gypsum Panels

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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	Paper with gray to off white core	Vapor Density (Air = 1)	Not Applicable
Odor	Low to no odor	Specific Gravity (H ₂ O = 1)	2.32 – 2.96
Odor Threshold	Not Determined	Solubility in water (g/100g)	0.26/100g
Physical State	Solid	Partition Coefficient	Not Applicable
pH @ 25 ° C	~ 7	Auto-ignition Temp	Not Determined
Melting Point	Not Applicable	Decomposition Temp	2650°F/1450°C
Freezing Point	Not Applicable	Viscosity	Not Applicable
Boiling Point	Not Applicable	Particle Size	Varies
Flash Point	Not Determined	Bulk Density	~ 55 lb/ft ³
Evaporation Rate (BuAc = 1)	Not Applicable	Molecular Weight	~ 172
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

STABILITY	Stable.
CONDITIONS TO AVOID	Contact with incompatibles (see below).
INCOMPATIBILITY	None known.
HAZARDOUS POLYMERIZATION	None known.
HAZARDOUS DECOMPOSITION	None known.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE EFFECTS: None known.

CHRONIC EFFECTS / CARCINOGENICITY:

The concentration of respirable crystalline silica measured in bulk samples of USG gypsum was less than 0.1 Wt.%. Industrial hygiene testing, following the NIOSH Method 7500, did not detect respirable crystalline silica in dust created during the cutting of USG gypsum wallboard panels by both the recommended score and snap technique and with the use of a power saw in a 10ft by 10ft room.

Panels do not release respirable dust in their installed state and therefore do not present any known health hazards when installed and properly maintained.

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, 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.

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.

Shipping Name	Same as product name.
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Hazard Class	Not classified.
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UN/NA #	None. Not classified.
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MATERIAL SAFETY DATA SHEET

SHEETROCK® Gypsum Panels

MSDS #54-000-001

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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
Gypsum or Calcium Sulfate Dihydrate (CaSO ₄ •2H ₂ O)	>85	NL	NL	NL	NL	NL	NL
Cellulose	<10	NL	NL	NL	NL	NL	NL
Starch	<3	NL	NL	NL	NL	NL	NL
Crystalline Silica	<1	NL	NL	NL	NL	NL	NL
May Contain:		[]
Fibrous Glass (Continuous Filament)	<1	NL	NL	NL	NL	NL	NL
May be available with foil-backing:		[]
Aluminum Foil (as Aluminum and Cmpds)	<3	NL	NL	X	NL	NL	NL
Ethylene Vinyl Acetate Polymer	<2	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
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MATERIAL SAFETY DATA SHEET

SHEETROCK® Gypsum Panels

MSDS #54-000-001

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Gypsum or Calcium Sulfate Dihydrate (CaSO ₄ •2H ₂ O)	>85	Not Listed	Not Listed
Cellulose	<10	Not Listed	Not Listed
Starch	<3	Not Listed	Not Listed
Crystalline Silica	<1	1406	D2A
May Contain:		[]
Fibrous Glass (Continuous Filament)	<1	Not Listed	Not Listed
May be available with foil-backing:		[]
Aluminum Foil (as Aluminum and Cmpds)	<3	47	Not Listed
Ethylene Vinyl Acetate Polymer	<2	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

S-Phrase(s): S51 S38 S39 S2


SECTION 16

OTHER INFORMATION

Label Information**Δ WARNING!**

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. If cutting board with a power tool, use a wet or vacuum saw to reduce the amount of dust generated. Panels are heavy and can fall over, causing serious injury or death. Avoid creating a tripping hazard and do not exceed floor limit loads. 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:		<table><tr><td>HEALTH</td><td>*</td><td>1</td></tr><tr><td>FLAMMABILITY</td><td></td><td>0</td></tr><tr><td>PHYSICAL HAZARD</td><td></td><td>0</td></tr><tr><td>PERSONAL PROTECTION</td><td></td><td>E</td></tr></table>	HEALTH	*	1	FLAMMABILITY		0	PHYSICAL HAZARD		0	PERSONAL PROTECTION		E	0 = Minimal Hazard
HEALTH	*		1															
FLAMMABILITY			0															
PHYSICAL HAZARD			0															
PERSONAL PROTECTION		E																
Health:	1	Health:	1	1 = Slight Hazard														
Fire:	0	Fire:	0	2 = Moderate Hazard														
Reactivity:	0	Reactivity:	0	3 = Serious Hazard														
					4 = Severe Hazard													

E – Safety glasses, gloves and dust respirator

Key/Legend

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



MATERIAL SAFETY DATA SHEET

SHEETROCK® Gypsum Panels

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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
Prepared by: Product Safety USG Corporation 550 West Adams Street Chicago, IL 60661-3637	
The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his/her own particular use.	
END	



MATERIAL SAFETY DATA SHEET

SHEETROCK® Brand Patching Plaster

MSDS NO. 06231

Page 1 of 4

United States Gypsum Company
125 South Franklin Street
Chicago, Illinois 60606-4678

Product Safety: 1 (800) 507-8899
Version Date: October 1, 1999
Version 3

SECTION I PRODUCT IDENTIFICATION

PRODUCT(S): USG SHEETROCK® Brand Patching Plaster

CHEMICAL FAMILY: Calcium sulfate hemihydrate (plaster of paris, $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$)

SECTION II INGREDIENTS

MATERIAL	WT%	TLV (mg/m ³)	PEL (mg/m ³)	CAS NUMBER
Plaster of Paris	>95	10	15(T)/5(R)	26499-65-0
Crystalline Silica	<5	0.1(R)	0.1(R)	14808-60-7
May contain the following:				
Limestone	<20	10	15(T)/5(R)	1317-65-3
Or Dolomite		10	15(T)/5(R)	16389-88-1
(T) – Total (R) – Respirable				

***** This is a Non-Asbestos Product. *****

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

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings: Health: 0 Fire: 0 Reactivity: 0 Other: N/A
HMIS Ratings: Health: 0 Fire: 0 Reactivity: 0
Personal Protection: Use eye and skin protection. Use NIOSH/MSHA-approved respiratory protection when necessary.
0 = Minimal Hazard 1 = Slight Hazard 2 = Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard

SECTION III PHYSICAL DATA

Appearance and Odor: Off white to gray powder; low odor.
Melting Point: 1450°C – decomposes
Solubility In Water: 0.15%
Specific Gravity (H₂O = 1): 2.3-2.6
pH Range: 7.5-8.5
Coating Voc: 0 g/l
Material Voc: 0 g/l
Hardening Time: Varies. Check usage and/or product specification data for each product.

SECTION IV FIRE AND EXPLOSION HAZARD DATA



MATERIAL SAFETY DATA SHEET

SHEETROCK® Brand Patching Plaster

MSDS NO. 06231

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Flash Point (Method Used):	Noncombustible
Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Special Fire Fighting Procedures:	None
Unusual Fire and Explosion Hazards:	None
Special Fire Fighting Protective Equipment:	None

SECTION V

HEALTH HAZARD DATA

Nuisance dust can be released during dry sanding of this product. Eye, skin, nose, throat, and upper respiratory irritation can occur with prolonged dust exposure.

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: When mixed with water, this material hardens and then slowly becomes hot. **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. 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, then wash skin thoroughly with mild soap and water. May dry skin. If irritation persists, consult physician.

INHALATION: Inhalation of dusts from this product may irritate the nose, throat, lungs, 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 from dust. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.

INGESTION: Unlikely to occur, but may cause gastric disturbances if swallowed. Plaster of paris is nontoxic, 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.

CHRONIC: This material displays no specific toxic properties.

EYES: None known.

SKIN: None known.

INHALATION: Prolonged and repeated exposure to respirable crystalline silica may result in lung disease (i.e., silicosis) and/or lung cancer.

INGESTION: No known effects.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush thoroughly with plenty of water for 15 minutes to remove particles. If irritation persists, consult physician.

SKIN: 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.

INHALATION: Remove to fresh air. Leave the area of dust exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however, if conditions warrant, contact physician.

INGESTION: No harmful effects expected. No specific recommendation. If gastric disturbance occurs, call 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; Eye and/or Skin contact.



MATERIAL SAFETY DATA SHEET

SHEETROCK® Brand Patching Plaster

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CARCINOGENICITY OF INGREDIENTS:**MATERIAL**

Respirable Crystalline Silica

IARC

Group 1

NTP

Anticipated

The average concentration of respirable crystalline silica measured in USG plaster of paris was less than 0.1 Wt. %. However, the quantity of respirable crystalline silica in this product has not been determined.

In June, 1997, the International Agency for Research on Cancer (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 studies. 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 VI REACTIVITY DATA

STABILITY:

Stable.

INCOMPATIBILITY:

Acids.

HAZARDOUS POLYMERIZATION:

Will not occur.

HAZARDOUS DECOMPOSITION:

Stable under normal temperature and pressure. Thermal decomposition will produce H₂O, CO₂, CO, and acetic acid. Product will decompose at temperatures above 1450°C to CaO and SO₂.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Use normal clean up procedure. Shovel material from spillage into a waste container for disposal, avoid creating excessive dust and minimize airborne dust. If already mixed with water, scoop up and place in disposable container. Wear appropriate protection equipment. If washed down, may plug drains.

WASTE DISPOSAL METHOD:

Dispose of material in accordance with federal, state, and local regulations. Slurry may plug drains.

SECTION VIII SPECIAL PROTECTION INFORMATION

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

RESPIRATORY PROTECTION:

Not typically necessary under normal conditions of use. Provide general ventilation and local exhaust ventilation to meet TLV requirements of individual ingredients and to control dusting conditions. Wear a NIOSH/MSHA-approved respirator when dusty conditions exist, in poorly ventilated areas, and if TLV is exceeded.

VENTILATION:

Ventilate to keep exposures below TLV. General ventilation is expected to be satisfactory. Use local exhaust ventilation if necessary to control dust.

PERSONAL PROTECTIVE EQUIPMENT:

Wear eye protection (safety glasses or goggles) to avoid particulate irritation of the eye. Gloves or protective clothing



are usually not necessary, but may be desirable in specific work situations. Wear adequate clothing to minimize chafing or drying of skin.

SECTION IX

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Normal precautions should be followed in handling, storage, and use. During handling and use wear the appropriate respiratory, eye and skin protection of warranted per environmental conditions.

Use wet sanding technique to reduce dust exposure when finishing joints. See "Finishing and Decorating Gypsum Panels – Wet Sanding, J-610/12-87".

Recommended Storage Methods: Keep dry. Dew point conditions or other conditions causing presence of liquid will harden this material during storage.

ΔWARNING!

When mixed with water, this material hardens and then slowly becomes hot. **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 generated from sanding product may cause eye, skin, nose, throat or respiratory irritation. Use wet-sanding to avoid creating dust. Avoid inhalation of dust and eye contact. If dusty, wear a NIOSH/MSHA-approved respirator. Wear eye protection. Provide good general ventilation and local exhaust ventilation to avoid excessive amounts of dust. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call physician. Do not ingest. If ingested, call physician. Product safety information: (800) 507-8899.

KEEP OUT OF REACH OF CHILDREN.

END



MATERIAL SAFETY DATA SHEET

USG™ Plaster Bonder

MSDS NO. 05795 67

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United States Gypsum Company
125 South Franklin Street
Chicago, Illinois 60606-4678

Product Safety: 1 (800) 507-8899
Version Date: October 1, 1999
Version 3

SECTION I PRODUCT IDENTIFICATION

PRODUCT(S): USG Plaster Bonder
CHEMICAL FAMILY: Aqueous Mixture of Polyvinyl Acetate

SECTION II INGREDIENTS

MATERIAL	WT%	TLV (mg/m ³)	PEL (mg/m ³)	CAS NUMBER
Water	<50	(NE)	(NE)	7732-18-5
Vinyl Acetate Polymer	>40	(NE)	(NE)	9003-20-7
Butyl Benzyl Phthalate*	< 5	(NE)	(NE)	85-68-7
Ethylene Glycol*	< 5	127(C,V,M)	127 (C,V,M)	107-21-1
Iron Oxide	< 0.2	(NE)	15(T)/5(R)	1309-37-1
Vinyl Acetate Monomer	<0.1	10ppm	10ppm	108-05-4
Acetaldehyde	<0.1	100ppm	100ppm	75-07-0

(T) – Total (R) – Respirable (C) – Ceiling (V) – Vapor (M) – Mist (NE) – Not Established

*These chemicals are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0 Other: N/A
HMIS Ratings: Health: 1 Fire: 0 Reactivity: 0
Personal Protection: Use eye and skin protection. Use NIOSH/MSHA-approved respiratory protection when necessary.
0 = Minimal Hazard 1 = Slight Hazard 2 = Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard

SECTION III PHYSICAL DATA

Appearance and Odor: Pigmented colored liquid, vinyl acetate odor.
Melting Point: 0°C
Solubility In Water: Water-based vinyl acetate polymer emulsion.
Specific Gravity (H₂O=1): 1.0 – 1.2
pH: 4.0 – 4.5
Boiling Point: 100°C
Vapor Pressure: 17 mm Hg @ 20°C
Coating VOC: 45 g/L
Material VOC: 23 g/L



SECTION IV
FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):	Non-combustible.
Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Special Fire Fighting Procedures:	None
Unusual Fire and Explosion Hazards:	Dried polymer films are capable of burning, yielding oxides of carbon, acetic acid, and smoke. Emits acrid smoke and irritating fumes. Vinyl acetate monomer vapors may be evolved at elevated temperatures.
Special Fire Fighting Protective Equipment:	Self-contained breathing apparatus for fire conditions.

SECTION V
HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

ACUTE:

EYES: Direct contact can cause irritation of eyes.

SKIN: Direct, prolonged or repeated contact with the skin can cause irritation.

INHALATION: Inhalation of dusts, mists and vapors from this product can irritate the nose, throat, lungs, and upper respiratory tract. High vapor or mist concentrations caused by inadequate ventilation can result in headache, nausea, and cause irritation of the nose, throat, and lungs.

INGESTION: No evidence of adverse effect from available information.

CHRONIC: None known for this mixture.

INHALATION: This product may contain small amounts of vinyl acetate monomer, vapors of which have been shown to cause tumors in the respiratory tract of laboratory animals. Chronic overexposure to vinyl acetate is not expected to occur during normal handling and use of this product. Vinyl acetate has been shown to cause irritation and cancer in inhalation studies with laboratory animals. Test levels of 600ppm over a lifetime caused an increase in tumors in the respiratory tract of the test animals. 200ppm caused irritation. No tumors were observed in the animals exposed at 50ppm or lower. There is no evidence of adverse effects to humans exposed to levels at or below the TLV.

EYES: None known.

SKIN: None known.

INGESTION: Ingestion of ethylene glycol can cause fatal kidney injury and liver damage in humans; and reproductive effects and liver damage in animals.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush thoroughly with water for 15 minutes. If irritation persists, see physician.

SKIN: Rinse with water, then wash skin thoroughly with soap and water. If irritation persists, consult physician. Launder contaminated clothes before reuse.

INHALATION: Remove subject to fresh air. If respiratory symptoms persist (irritation, cough, etc.), consult physician.

INGESTION: If swallowed, induce vomiting only if victim is alert. Get prompt medical attention. Do Not attempt to give anything by mouth to a drowsy or unconscious person.

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.

CARCINOGENICITY OF INGREDIENTS:



MATERIAL SAFETY DATA SHEET

USG™ Plaster Bonder

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MATERIAL
Vinyl Acetate Monomer
Acetaldehyde

IARC
2B
2B

NTP
Not Listed
Anticipated

SECTION VI REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY: Substances which react with water.

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION: Stable under normal temperature and pressure. Product contains low level of organic volatiles, which may be emitted or released in application processes involving the use of heat. Vent all ovens and process vessels to the outside atmosphere. Thermal decomposition will produce H₂O, CO₂, CO, and acetic acid. Could produce vinyl acetate monomers when temperature is above 175°C.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Wear appropriate protective equipment. See Health Hazards and Special Protection Information Sections for further information. Spilled material can produce slippery conditions, be cautious to avoid falling. Contain spill with inert absorbent and transfer to container for disposal. Keep spills and cleaning runoff out of municipal sewers, watersheds, water systems, and open bodies of water. Do not flush to storm sewer or waterway.

WASTE DISPOSAL METHOD:

Dispose of material in accordance with Federal, State and Local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

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

RESPIRATORY PROTECTION:

Not typically necessary under normal conditions of use. Avoid inhalation of mist or dust. Wear a NIOSH/MSHA-approved respirator if TLV is exceeded.

VENTILATION:

General mechanical ventilation or local exhaust to keep exposures below TLV.

PERSONAL PROTECTIVE EQUIPMENT:

Wear safety glasses, goggles, or face shield for eye protection. Wear neoprene gloves for hand protection. Wear adequate clothing to minimize skin contact. Wash clothing on a regular basis.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid freezing temperatures during storage. If frozen, thaw slowly at room temperature. Store at temperatures less than 120°F. Monomer vapors can be evolved when material is heated. Avoid breathing vapors. Avoid eye and skin



MATERIAL SAFETY DATA SHEET

USG™ Plaster Bonder

MSDS NO. 05795

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contact. Wear appropriate protective equipment when working with this product. Wash thoroughly after handling.

• **WARNING!**

Avoid exposure to mist or dust. Inhalation of vapor or mist may cause headache, nausea, or irritation of nose, throat, and lungs. Use in a well-ventilated area. Keep container closed when not in use. Wear a NIOSH/MSHA-approved respirator in poorly ventilated areas. Avoid contact with eyes and skin. Wear eye protection. If eye contact occurs, flush thoroughly with water for 15 minutes. Prolonged or repeated contact with skin can cause irritation. Wear waterproof gloves and protective work clothing for skin protection. If skin contact occurs, wash thoroughly with soap and water. If eye or skin irritation persists, call physician. Do not ingest. If ingested, call physician immediately. Product safety information: (800) 507-8899.

KEEP OUT OF REACH OF CHILDREN.

END



MATERIAL SAFETY DATA SHEET

SHEETROCK® Brand Spackling Powder

MSDS NO. 06260

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United States Gypsum Company
125 South Franklin Street
Chicago, Illinois 60606-4678

Product Safety: 1 (800) 507-8899
Version Date: October 1, 1999
Version 3

SECTION I PRODUCT IDENTIFICATION

PRODUCT(S): USG SHEETROCK® Brand Spackling Powder

CHEMICAL FAMILY: Mixture of Calcium Sulfate Hemihydrate (Plaster of Paris, $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$), and minerals

SECTION II INGREDIENTS

MATERIAL	WT%	TLV (mg/m ³)	PEL (mg/m ³)	CAS NUMBER
Plaster of Paris	>60	10	15(T)/5(R)	26499-65-0
Limestone	>10	10	15(T)/5(R)	1317-65-3
Or Dolomite		10	15(T)/5(R)	16389-88-1
Expanded Perlite	<10	10	15(T)/5(R)	93763-70-3
Mica	<10	3(R)	3(R)	12001-26-2
Vinyl Alcohol Polymer	<5	(NE)	(NE)	9002-89-5
Attapulgate	<5	(NE)	(NE)	12174-11-7
Crystalline Silica	<5	0.1(R)	0.1(R)	14808-60-7
(T) – Total (R) – Respirable (NE) – Not Established				

***** This is a Non-Asbestos Product. *****

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

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings: Health: 0 Fire: 0 Reactivity: 0 Other: N/A
HMIS Ratings: Health: 0 Fire: 0 Reactivity: 0
Personal Protection: Use eye and skin protection. Use NIOSH/MSHA-approved respiratory protection when necessary.
0 = Minimal Hazard 1 = Slight Hazard 2 = Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard

SECTION III PHYSICAL DATA

Appearance and Odor: Off white to gray powder; low odor.
Melting Point: 1450°C – decomposes
Solubility In Water: 0.15%
Specific Gravity (H₂O = 1): 2.3-2.6
pH Range: 7-8.5
Coating Voc: 0 g/l
Material Voc: 0 g/l
Hardening Time: Varies. Check usage and/or product specification data for each product.



SECTION IV
FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):	Noncombustible
Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Special Fire Fighting Procedures:	None
Unusual Fire and Explosion Hazards:	None
Special Fire Fighting Protective Equipment:	None

SECTION V
HEALTH HAZARD DATA

Nuisance dust can be released during dry sanding of this product. Eye, skin, nose, throat, and upper respiratory irritation can occur with prolonged dust exposure.

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: When mixed with water, this material hardens and then slowly becomes hot. **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. 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, then wash skin thoroughly with mild soap and water. May dry skin. If irritation persists, consult physician.

INHALATION: Inhalation of dust from this product may irritate the nose, throat, lungs, 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 from dust. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.

INGESTION: Unlikely to occur, but may cause gastric disturbances if swallowed. Plaster of paris is nontoxic, 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.

CHRONIC: This material displays no specific toxic properties.

EYES: None known.

SKIN: None known.

INHALATION: Prolonged and repeated exposure to respirable crystalline silica may result in lung disease (i.e. silicosis) and/or lung cancer. Long-term breathing of large amounts of respirable mica may cause lung disease.

INGESTION: No known effects.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Immediately flush thoroughly with water for 15 minutes. If irritation persists, consult physician.

SKIN: Rinse with water, then 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.

INHALATION: Remove to fresh air. Leave the area of dust exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however, if conditions warrant, contact physician.

INGESTION: No harmful effects expected. No specific recommendation. If gastric disturbance occurs, call 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.



MATERIAL SAFETY DATA SHEET

SHEETROCK® Brand Spackling Powder

MSDS NO. 06260

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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; Eye and/or Skin contact.

CARCINOGENICITY OF INGREDIENTS:

MATERIAL

Crystalline Silica

IARC

Group 1

NTP

Anticipated

The average concentration of respirable crystalline silica measured in USG plaster of paris was less than 0.1 Wt. %. However, the quantity of respirable crystalline silica in this product has not been determined.

In June, 1997, the International Agency for Research on Cancer (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 studies. 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 VI REACTIVITY DATA

STABILITY:

Stable.

INCOMPATIBILITY:

Acids.

HAZARDOUS POLYMERIZATION:

Will not occur.

HAZARDOUS DECOMPOSITION:

Stable under normal temperature and pressure. Thermal decomposition will produce H₂O, CO₂, CO, and acetic acid. Product will decompose at temperatures above 1450°C to CaO and SO₂.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Use normal clean up procedure. Shovel material from spillage into a waste container for disposal, avoid creating excessive dust and minimize airborne dust. If already mixed with water, scoop up and place in disposable container. Wear appropriate protection equipment. If washed down, may plug drains.

WASTE DISPOSAL METHOD:

Dispose of material in accordance with federal, state, and local regulations. Slurry may plug drains.

SECTION VIII SPECIAL PROTECTION INFORMATION

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

RESPIRATORY PROTECTION:

Not typically necessary under normal conditions of use. Provide general ventilation and local exhaust ventilation to meet TLV requirements of individual ingredients and to control dusting conditions. Avoid creating dust. Wear a NIOSH/MSHA-approved respirator when dusty conditions exist, in poorly ventilated areas, and if TLV is exceeded.

VENTILATION:



General ventilation is expected to be adequate, but if necessary use local exhaust ventilation to keep exposures below TLV.

PERSONAL PROTECTIVE EQUIPMENT:

Wear eye protection (safety glasses or goggles) to avoid particulate irritation of the eye. Gloves or protective clothing are usually not necessary, but may be desirable in specific work situations. Wear adequate clothing to minimize chafing or drying of skin.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Normal precautions should be followed in handling, storage, and use. During handling and use wear the appropriate respiratory, eye and skin protection of warranted per environmental conditions.

Use wet sanding technique to reduce dust exposure when finishing joints. See "Finishing and Decorating Gypsum Panels – Wet Sanding, J-610/12-87".

Recommended Storage Methods: Keep dry. Dew point conditions or other conditions causing presence of liquid will harden this material during storage.

⚠WARNING!

When mixed with water, this material hardens and then slowly becomes hot. **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 generated from sanding product may cause eye, skin, nose, throat or respiratory irritation. Use wet-sanding to avoid creating dust. Avoid inhalation of dust and eye contact. If dusty, wear a NIOSH/MSHA-approved respirator. Prolonged and repeated exposure to respirable mica may cause lung disease. Wear eye protection. Provide good general ventilation and local exhaust ventilation to avoid excessive amounts of dust. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call physician. Do not ingest. If ingested, call physician. Product safety information: (800) 507-8899.

KEEP OUT OF REACH OF CHILDREN.

END