

# MATERIAL SAFETY DATA SHEET

## MOISTURE RESISTANT GYPSUM BOARD

MSDS No. : GB – 02

Page No. : 1 of 6

Date : 01 Aug. 2010

Supersedes : New  
Date

### SECTION 1 PRODUCT & COMPANY INFORMATION

#### Manufacturer Information:

UNITED MINING INDUSTRIES  
P.O. BOX 31491 Al Razi St., Light Industrial Area  
Yanbu Al-Sinaiyah, Kingdom of Saudi Arabia  
Tel. No.: 00-966-4-3968777  
Fax. No.: 00-966-4-3962666  
Email: [info@ugc.com.sa](mailto:info@ugc.com.sa)  
Website: [www.umi.com.sa](http://www.umi.com.sa)

#### Product Safety:

QUALITY CONTROL DEPARTMENT  
Tel. No.: 00-966-4-3968777 Ext. 115  
  
TECHNICAL & OPERATIONS DEPARTMENT  
Tel. No.: 00-966-4-3968777 Ext. 122  
  
Website: [www.umi.com.sa](http://www.umi.com.sa)

<b>Product(s)</b>	Moisture Resistant Gypsum Board
<b>Chemical Family</b>	Gypsum (Calcium Sulfate Dihydrate CaSO <sub>4</sub> .2H <sub>2</sub> O)
<b>General Category</b>	Gypsum Panel Products
<b>Synonyms</b>	Gypsum Wallboard, Drywall
<b>Application</b>	UMI Moisture Resistant Gypsum Board is designed for use on walls, ceilings, or partitions with a surface suitable to receive decoration, and for specific applications that require properties such as moisture resistant, sag resistance, impact resistance and lightweight.
<b>Description</b>	A family of gypsum panel products consisting of a noncombustible core, primarily of gypsum, with a paper surfacing on the face, back and long edges.

### SECTION 2 HAZARDS IDENTIFICATION

#### ΔWARNING!

This product has not been documented to produce any unusual hazards during normal use. Exposure to dust above recommended levels may irritate the skin, eyes, nose, throat, or upper respiratory tract.

**POTENTIAL HEALTH EFFECTS:** See Section 11 for Toxicological Information.

#### ACUTE:

<b>Inhalation</b>	Acute exposure to dust in excess of PEL/TLV generated during the handling or use of the product may result in coughing, wheezing, impaired pulmonary function and irritation of the nose, throat, and upper respiratory tract. It is recommended that a NIOSH approved particulate respirator be worn whenever working with this product. If respiratory symptoms persist, consult physician.
<b>Eyes</b>	Exposure to dust can cause irritation of eyes. If redness, pain, itching or other symptoms persist or develop, seek medical attention.
<b>Skin</b>	Not known.
<b>Ingestion</b>	Not Known.

#### CHRONIC:

<b>Inhalation</b>	In its installed state, gypsum board does not release any respirable dust and therefore does not present any known health hazards. Frequent and prolonged exposure to respirable dust can cause silicosis, a devastating lung disease and/or lung cancer.
<b>Eyes</b>	Not known.
<b>Skin</b>	Not known.
<b>Ingestion</b>	Not Known.

**TARGET ORGANS:** Eyes, skin, respiratory system

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

#### OSHA REGULATORY STATUS:

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

# MATERIAL SAFETY DATA SHEET

## MOISTURE RESISTANT GYPSUM BOARD

MSDS No. : GB – 02

Page No. : 2 of 6

Date : 01 Aug. 2010

Supersedes  
Date : New

### SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

MATERIAL COMPONENT	WEIGHT PERCENT	CAS NUMBER
Gypsum (Calcium Sulfate Dihydrate CaSO <sub>4</sub> .2H <sub>2</sub> O)	>90	10101-41-4
Cellulose (paper fiber)	□7	9004-34-6
Starch	□1	9005-25-8
Crystalline Silica	□1	14808-60-7

### SECTION 4 FIRST AID MEASURES

#### FIRST AIR PROCEDURES:

<b>Inhalation</b>	Remove exposed person to fresh air immediately. If breathing difficulty persists, contact physician.
<b>Eyes</b>	In case of contact, do not rub eyes. Immediately flush eyes thoroughly with water for 15 minutes. Remove contact lenses (if applicable). Seek medical attention if symptoms persist.
<b>Skin</b>	Wash with mild soap and water. Seek medical attention if symptoms persist.
<b>Ingestion</b>	This product is not intended to be ingested or eaten. If abdominal discomfort occurs, seek 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.

### SECTION 5 FIRE FIGHTING MEASURES

<b>General Fire hazards</b>	Not known.		
<b>Extinguishing Media</b>	Water, dry chemicals, foam, spray or fog		
<b>Protection for Firefighters</b>	Standard personal protective equipment. See section 8.		
<b>Fire/Explosion Hazards</b>	Not known.		
<b>Hazardous Combustion Products</b>	Not known. Above 1450 °C, material can decompose and release Sulfur Dioxide (SO <sub>2</sub> ) and oxides of Carbon.		
<b>Flash Point</b>	Not determined.	Auto Ignition	Not applicable.
<b>Method Used</b>	Not applicable.	Flammability Classification	Not applicable.
<b>Upper Flammable Limit</b>	Not determined.		
<b>Lower Flammable Limit</b>	Not determined.	Rate of Burning	Not applicable.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

<b>Containment</b>	Collect gypsum boards from spillage and if not damaged or contaminated by foreign materials, gypsum boards may be recycled or reused. Wear proper PPE.
<b>Clean Up</b>	Pick-up larger pieces to avoid a tripping hazard. Return large pieces of damaged/scraped material for recycling. Sweep or vacuum remaining material into a waste container for disposal. Use a light water spray to minimize dust generation. Wear proper PPE.
<b>Disposal</b>	Waste material is not a hazardous waste. Dispose of in accordance with applicable federal, state, and local regulations. Wear proper PPE.

# MATERIAL SAFETY DATA SHEET

## MOISTURE RESISTANT GYPSUM BOARD

MSDS No. : GB – 02

Page No. : 3 of 6

Date : 01 Aug. 2010

Supersedes  
Date : New

### SECTION 7 HANDLING AND STORAGE

#### HANDLING:

- Work in pairs whenever possible.
- Lift carefully with good techniques by using the legs, not the back.
- Stack gypsum panel products flat – not on edge or end.
- Wear a dust mask when conditions warrant.
- Ground electrical power tools properly.
- Select and use the correct tool for each job.
- Ensure that all tools are in good repair.
- Protect eyes with safety glasses or goggles when necessary.
- Proceed at a deliberate but steady pace.
- Always take precautions and time to make sure the work is done safely.
- Wear other personal protective devices and clothing such as a hard hat, gloves, safety shoes, etc.
- 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.

#### 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.
- Store panels flat to minimize damage and warping.
- Do not stack panels too high when storing to minimize the risk of falling.

Note: Gypsum Association literature, “(GA-801-07) **HANDLING AND STORAGE OF GYPSUM PANEL PRODUCTS: A GUIDE FOR DISTRIBUTORS, RETAILERS, AND CONTRACTORS** can be used as a guide for the safe handling and storage of gypsum panel products.

### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

MATERIAL COMPONENT	OSHA PEL (mg/m <sup>3</sup> )	ACGIH TLV (mg/m <sup>3</sup> )
Gypsum (Calcium Sulfate Dihydrate CaSO <sub>4</sub> .2H <sub>2</sub> O)	15 (T) / 5 (R)	10 (T)
Cellulose (paper fiber)	15 (T) / 5 (R)	10 (T)
Starch	15 (T) / 5 (R)	10 (T)
Crystalline Silica	0.1 (R)	0.025 (R)

T – Total Dust, R – Respirable Dust

#### ENGINEERING CONTROL:

- **Work/Hygiene Practices:** The score and snap method of cutting is recommended. Sawing, drilling or machining will produce dust.
- **Ventilation:** Provide local and general exhaust ventilation to maintain a dust level below the PEL/TLV.
- Utilize wet methods, when appropriate, to reduce generation of dust.

#### PERSONAL PROTECTIVE EQUIPMENT:

<b>Respiratory Protection</b>	A NIOSH approved particulate respirator is recommended in poorly ventilated areas or if the PEL/TLV is exceeded. OSHA's 29 CFR 1910.134 (Respiratory Protection Standard) must be followed whenever work conditions require respirator use.
<b>Eyes Protection</b>	Wear eye protection, safety glasses or goggles, to avoid possible eye contact.
<b>Skin Protection</b>	Wear gloves and protective clothing to prevent repeated or prolonged skin contact.

# MATERIAL SAFETY DATA SHEET

## MOISTURE RESISTANT GYPSUM BOARD

MSDS No. : GB – 02  
Date : 01 Aug. 2010  
Page No. : 4 of 6  
Supersedes : New  
Date

### SECTION 9 PHYSICAL & CHEMICAL PROPERTIES

Appearance	Paper with off-white to white core	Vapor Density (Air=1)	Not Applicable
Odor	Low to no odor	Specific Gravity ( H <sub>2</sub> O=1)	2.31 – 2.96
Odor Threshold	Not Determined	Solubility in water, @ 20 °C	2.1 – 2.6 g/L
Physical State	Solid	Partition Coefficient	Not Applicable
pH @ 25 °C	□ 7	Auto-ignition Temp	Not Determined
Melting Point	Not Applicable	Decomposition Temp	1450 °C / 2650 °F
Freezing Point	Not Applicable	Viscosity	Not Applicable
Boiling Point	Not Applicable	Particle Size	Varies
Flash Point	Not Determined	Bulk Density	□ 55 lb/ft <sup>3</sup> / 0.88 g/cc
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 in dry environments.
Conditions to Avoid	Contact with strong acids may result in generation of carbon dioxide
Incompatibility	Not known.
Hazardous Polymerization	Not Known
Hazardous Decomposition	Above 1450 °C, gypsum will decompose to Calcium Oxide (CaO), with releases of Sulfur Dioxide (SO <sub>2</sub> ) and various Oxides of Carbon.

### SECTION 11 TOXICOLOGICAL INFORMATION

Information presented is for the major component of this product: Gypsum (calcium sulfate dihydrate)

There is no information on toxicokinetics, metabolism and distribution.

Acute exposure to dusts in excess of the permissible limits has been reported to cause irritation to mucus membranes of the eyes and respiratory tract.

Chronic exposure to a naturally occurring contaminant in gypsum, crystalline silica dust can cause silicosis, a devastating lung disease. Crystalline silica inhaled in the form of quartz or cristobalite is classified as human lung carcinogen by the International Agency for Research on Cancer (IARC). Respirable crystalline silica as a substance may likely to be carcinogen as classified by the National Toxicology Program (NTP). OSHA does not regulate crystalline silica as a human carcinogen, however OSHA has an established Permissible Exposure Limit, or PEL, which is the maximum amount of crystalline silica to which workers may be exposed during an 8-hour work shift

### SECTION 12 ECOLOGICAL INFORMATION

This product has no known adverse effect to environment.

Gypsum is a naturally occurring mineral. Biodegradation and/or bioaccumulation potential is not applicable.

# MATERIAL SAFETY DATA SHEET

## MOISTURE RESISTANT GYPSUM BOARD

MSDS No. : GB – 02	Page No. : 5 of 6
Date : 01 Aug. 2010	Supersedes Date : New

### SECTION 13 DISPOSAL CONSIDERATION

#### 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

<b>DOT Information</b>	This product is not hazardous, classified nor regulated.
<b>Shipping Name</b>	Same as product name.
<b>Hazard Class</b>	Not classified.
<b>ICAO/IATA/IMO</b>	Not applicable

### SECTION 15 REGULATORY INFORMATION

**OSHA:** Dust and potential respirable crystalline silica generated during product use may be hazardous.

### SECTION 16 OTHER INFORMATION

#### MSDS Revision Summary:

Effective Date Change: **01 August 2010**

Supersedes Date: **New**

Changes:

#### Key Legend:

ACGIH	American Conference of Governmental Industrial Hygienist
CAS No.	Chemical Abstract Services Number
CFR	Code of Federal Regulations
DOT	Department of Transportation
IARC	International Agency for Research on Cancer
IATA	International Air Transportation Association
ICAO	International Civil Aviation Organization
IMO	International Maritime Organization
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit

# MATERIAL SAFETY DATA SHEET

## MOISTURE RESISTANT GYPSUM BOARD

MSDS No. : GB – 02

Page No. : 6 of 6

Date : 01 Aug. 2010

Supersedes  
Date : New

### SECTION 16

#### OTHER INFORMATION (Continuation)

PPE Personal Protective Equipment

TLV Threshold Limit Value

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This material safety data sheet was prepared to comply with the OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### **Disclaimer of Liability:**

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of the material. Information contained herein is believed to be true and accurate, but all statements or suggestions are made without any warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained for the use thereof.

- END -