SECTION I
PRODUCT IDENTIFICATION

Chemical Family: Gypsum (Calcium Sulfate Dehydrate CaSO4 •2H2O)

PRODUCTS:

SpanShield

Use: Gypsum board products are designed for specific applications that require properties such as fire resistance, moisture resistance, abrasion resistance, sag resistance and other properties required for applications in walls and ceiling assembles.

Generic Descriptions:

Article Composite. Regular, fire resistant and/or moisture resistant gypsum core encased in paper on front and back sides.

Contains No Asbestos. HMIS Hazard Class Number 1, 0, 0.

Manufacturer Information:

KNAUF GYPSUM PHILIPPINES INC

KM 117 Highway, Calaca Industrial Seaport Corporation,
Barangay Lumbang Calzada, Calaca, Batangas 4212 Philippines

SECTION II
HAZARD IDENTIFICATION

Emergency Overview:

Plaster board panels do not present an inhalation, ingestion or contact health hazard. It is not recommended that sawing, sanding, grinding, or machining be performed on the product. Scoring and snapping method is recommended to avoid creating dust. If sawing is absolutely necessary, dust collection systems, vacuuming, and the utilization of side shield safety glasses, approved respirator, etc., may be necessary. Inhalation of dust generated from sawing and sanding could irritate nasal and throat tissues.

Potential Health Effects:

- **Eye contact:** With airborne dust may cause irritation to the eye.
- **Skin contact:** May cause dryness, itching and irritation.
- **Ingestion:** Large amounts may cause intestinal discomfort or distress.
- **Inhalation:** Dust from cutting or sawing may cause irritation of nose, throat, or lungs.

SECTION III
COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS – Number	Weight in Percentage
Calcium Sulfate Dehydrate (Gypsum)	10101-41-4	**85 - 95**
Crystalline Silica (Quartz)	14808-60-7	**< 1**
Cellulose (Paper Fiber)	9004-34-6	**5 -15**
Proprietary Additives	NA	**< 1**

SECTION IV
FIRST AID MEASURES

• **Eyes:** Remove contact lenses (if applicable). Flush eyes thoroughly with water, including under eyelids to remove all particles. Call physician immediately.

• **Skin:** Wash affected skin gently with soap and water.

• **Inhalation of airborne dust:** Remove to fresh air. Seek medical help if coughing and other symptoms do not subside.

• **Ingestion:** Not applicable for product in its supplied form.

SECTION V
FIRE AND EXPLOSION HAZARD DATA

• **Flash point** – None
• **Lower Explosion Limit** – None
• **Upper Explosion Limit** – None
• **Auto Ignition Temperature** - Not Combustible
• **Extinguishing Media** – Dry chemical, foam, water, fog or spray
• **Special Fire Fighting Procedures** - None.

Although, gypsum panels pose no fire related hazards, a self-contained breathing apparatus is recommended to limit exposure to combustion product when fighting any fire.
• **Hazardous combustion products** – None. Above 1450° C could produce SO2 and CaO.
• **Unusual fire and explosion hazards** – None

SECTION VI
ACCIDENTAL RELEASE MEASURES

Not applicable, as product is an article composite.

General recommendations:
• Wear appropriate Personal Protective Equipment. (See Section 8)
• Maintain proper ventilation.
• 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.
• Waste material is not a hazardous waste. Dispose of in accordance with applicable federal and local regulations.

SECTION VII
PRECAUTIONS FOR SAFE HANDLING AND USE

• **General -** Keep material dry. Stack or store all panels flat. Panels are heavy and can fall over, causing serious injury or death. Use proper lifting methods and equipment. Do not move unless authorized.
• **Storage Temperature -** Should not be stored or used where temperatures exceed 55 C° for extended periods or in areas of high humidity.

• **Precautions and safe handling -** Safety glasses should be worn when handling and installing the product. Gloves or protective clothing are usually not necessary but may be desirable in certain situations. Scoring and snapping is the method to be used when cutting the panels in order to reduce the potential for the creation of dust.

• **Waste disposal –** Not a hazardous material Dispose of in accordance with local, and Government regulations.

• **Transportation Data -** Gypsum panels are not hazardous for transportation.

SECTION VIII
EXPOSURE CONTROLS MEASURES / PERSONAL PROTECTION

Exposure Guidelines	**OSHA PEL** (mg/m3)		**ACGIH TLV** (mg/m3)	
Component	Total Dust (T)	Reparable Dust (R)	Total Dust (T)	Reparable Dust (R)
Calcium Sulfate Dehydrate (Gypsum)	15	5	10	NE
Crystalline Silica (Quartz)	NE	5	NE	0.025
Cellulose (Paper Fiber)	15	5	10	NE
Proprietary Additives	NE	NE	NE	NE

NE – Not Established

Engineering Controls

• **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

• **Skin Protection -** Gloves or protective clothing are usually not necessary but may be desirable in certain situations.
• **Eye Protection -** Wear safety glasses with side shields or goggles. Do not wear contact lenses in dusty environments.

• **Respiratory Protection -** Not required for normal handling and use of product. However, the wearing of approved breathing protection may be necessary for exposure to dust generated from snapping, sawing, or remanufacturing this product Data presented is for the major component of this product: Gypsum (calcium sulfate dehydrate)

SECTION IX
PHYSICAL/CHEMICAL CHARACTERISTICS

- **Appearance** - White, chalky material between face and back paper(s)
- **Odor** - No Odor
- **Physical State** - Solid
- **Boiling Point** - Not Applicable
- **Specific Gravity** – 2.2 – 2.4 gm/cc
- **Vapor Pressure** (MM OF Mercury) - Not Applicable
- **Vapor Density** (Air = 1) - Not Applicable
- **Evaporation Rate** - Not Applicable
- **Solubility in H2O** (% by wt.) - 0.241 g/100cc

SECTION X
REACTIVITY DATA

- **Stability** - Product is stable.
- **Conditions to Avoid** - Reaction with strong acids will generate carbon dioxide.
- **Incompatible Materials** – None Know
- **Hazardous Polymerization** - Does not occur
- **Hazardous Decomposition** - Above 1450° C could produce SO2 and CaO.

SECTION XI
TOXICOLOGICAL INFORMATION

Human Data

There is no information on toxic kinetics, metabolism and distribution.

There have been reports of irritation to mucus membranes of the eyes and respiratory tract upon acute exposure to dusts in excess of the recommended limits.

Chronic exposure to crystalline silica (a naturally occurring contaminant in gypsum) in the reparable size has been shown to cause silicosis, a debilitating lung disease.

In addition, the International Agency for Research on Cancer (IARC) classifies crystalline silica inhaled in the form of quartz or cristobalite from occupational sources as carcinogenic to humans, Group 1.

The National Toxicology Program (NTP) classifies reparable crystalline silica as a substance which may be reasonably anticipated to be a carcinogen.

OSHA does not regulate crystalline silica as a human carcinogen. Industrial hygiene monitoring to date has not identified any detectable reparable crystalline silica in dust sampling conducted during gypsum panel installation utilizing recommended procedures.

SECTION XII
ECOLOGICAL INFORMATION

This product does not present an ecological hazard to the environment.

• **Eco toxicological Information -** Toxicity studies performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect.

• **Environmental Fate -** Gypsum is a naturally occurring mineral. Biodegradation and/or bioaccumulation potential is not applicable.

SECTION XIII
DISPOSAL CONSIDERATIONS

• Dispose of according to Local and Provincial Environmental Regulations.
• Recycle if possible

SECTION XIV
TRANSPORTATION INFORMATION

• This product is not a DOT hazardous material

SECTION XV
REGULATORY INFORMATION

There are no local regulatory information available for Gypsum Plasterboard. However, relevant international standards like OSHA may be considered. Details of such International Standards are:

• **OSHA Hazard Communication Rule, 29 CFR 1910.1200 –** Dust and Potential reparable crystalline silica generated during product use may be hazardous.

State Regulations
California Prop 65: Reparable crystalline silica is known to the state of California to cause cancer. Industrial hygiene monitoring during recommended use of this product failed to identify any reparable crystalline silica.

Canada WHMIS
All components of this product are included in the Canadian Domestic Substances List (DSL).
Crystalline silica: WHMIS Classification D2A

• **CERCLA/SUPERFUND, 40 CFR 302 -** Not listed.

• **SARA Title III Sections 302 / 304 / 313 Hazard Category –** Not Listed

• **Toxic Substance Control Act (TSCA) -** This product complies with the TSCA Inventory requirements.

SECTION XVI
OTHER INFORMATION

Key/Legend

ACGIH American Conference of Governmental Industrial Hygienists
CAS Chemical Abstract Services Number
CFR Code of Federal Regulations
DOT Department of Transportation
EPA Environmental Protection Agency
HEPA High Efficiency Particulate Air
HMIS Hazardous Material Identification System
IARC International Agency for Research on Cancer
IATA International Air Transport Association
ICAO International Civil Aviation Organization
IMO International Maritime Organization
NIOSH National Institute for Occupational Safety and Health
NFPA National Fire Protection Association
NTP National Toxicology Program
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit
PPE Personal Protective Equipment
TLV Threshold Limit Value
TSCA Toxic Substance Control Act
TWA Time Weighted Average
WHMIS Workplace Hazardous Materials Information System

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) and with the Workplace Hazardous Materials Information System (WHMIS).