

SAFETY DATA SHEET

Section 1: Identification of the chemical and of the supplier

Product identifier	Glass Mat Panel
Other means of identification	
Synonyms	USG Boral Securock® Glass-mat Sheathing (12.7mm and 15.9mm)
Recommended use of the chemical and restrictions on use	
Recommended use	Interior and Exterior Use
Recommended restrictions	Use in accordance with manufacturer's recommendations.
Details of principal suppliers	
Distributor / Supplier	USG Boral Sdn. Bhd.
Address	Lot 606, Jalan Lagoon Selatan, 47500 Subang Jaya, Selangor Darul Ehsan, Malaysia
Telephone	+603 5629 2000
Fax	+603 5629 2008
E-mail	contact-us.my@usgboral.com
Emergency phone number	1-800-88-8099 / +6 04-657 0099 (Monday-Friday: 8.10am-5.10pm) +6 012-430 9499 (including weekends and public holidays) National Poison Center, Universiti Sains Malaysia

Section 2: Hazard identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.

Label elements

Hazard symbol	None.
Signal word	None.
Hazard statement	None.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Get medical advice/attention if you feel unwell.
Storage	Store as indicated in Section 7.
Disposal	Dispose of in accordance with local, state, and federal regulations.
Other hazards which do not result in classification	None known.
Supplemental information	None.

Section 3: Composition and information of the ingredients of the hazardous chemical

Mixtures

Chemical name	CAS number	Content in percent (%)
Calcium sulfate dihydrate (alternative CAS 10101-41-4)	13397-24-5	> 95
Continuous filament glass fiber	65997-17-3	< 5

Composition comments All concentrations are in percent by weight. Occupational Exposure Limits for impurities are listed in Section 8.

The gypsum used to manufacture gypsum panels contains respirable crystalline silica averaging up to 0.4 percent by weight, depending on source and region, as indicated by bulk sampling methods. Industrial hygiene laboratory testing conducted at USG Boral on gypsum panels across the region using both personal and area sampling measured no detectable respirable crystalline silica when cutting the product by "score and snap", hand saw or jig saw. Although the industrial hygiene testing results showed no detectable RCS, good work practices which minimize the extent of dust generation should be followed.

Section 4: First-aid measures

Inhalation	Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.
Skin contact	Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or persists.
Eye contact	Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Under normal conditions of intended use, this material does not pose a risk to health. Dust may irritate throat and respiratory system and cause coughing.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved.

Section 5: Fire-fighting measures

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Not applicable.
Specific hazards arising from the chemical	Not a fire hazard.
Special protective equipment and precautions for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials.
Hazchem code	None.
Specific methods	Cool material exposed to heat with water spray and remove it if no risk is involved.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	See Section 8 of the SDS for Personal Protective Equipment.
Environmental precautions	Avoid discharge to drains, sewers, and other water systems.
Methods and materials for containment and cleaning up	No specific clean-up procedure noted. For waste disposal, see Section 13 of the SDS.

Section 7: Handling and storage

Precautions for safe handling	<p>Use work methods which minimise dust production. Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment. Wash hands after handling. Observe good 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.</p> <p>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 job site. Gypsum panels are very heavy, awkward loads posing the risk of severe back injury. Use proper lifting techniques.</p>
Conditions for safe storage, including any incompatibilities	Store in a cool, dry, well-ventilated place. Store away from incompatible materials. Protect product from physical damage. Protect from weather and prevent exposure to sustained moisture. Gypsum Association literature (GA-801-07) 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 and personal protection

Occupational exposure limits

Malaysia. OELs. (Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations)

Components	Type	Value	Form
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	TWA	10 mg/m ³	
Continuous filament glass fiber (CAS 65997-17-3)	TWA	1 fibers/ml	Fiber.
		5 mg/m ³	Inhalable fraction.
Impurities	Type	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.1 mg/m ³	Respirable fraction.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	TWA	10 mg/m ³	Inhalable fraction.
Continuous filament glass fiber (CAS 65997-17-3)	TWA	1 fibers/cm ³	Respirable fibers (length > 5 µm & aspect ratio ≥ 3:1)
Impurities	Type	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m ³	Respirable fraction.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimise the risk of exposure.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear approved safety goggles.

Skin protection

Hand protection

It is a good industrial hygiene practice to minimise skin contact. For prolonged or repeated skin contact use suitable protective gloves.

Other

Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards

None.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.

Section 9: Physical and chemical properties

Appearance	Paper faced with gypsum core.
Physical state	Solid.
Form	Panel.
Colour	Grey to off-white.
Odour	Low to no odour.
Odour threshold	Not applicable.
pH	6 - 8
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not applicable.
Explosive limit - upper (%)	Not applicable.

Vapour pressure Not applicable.

Vapour density Not applicable.

Relative density 2.32 (Gypsum)

Solubility(ies)

Solubility (water) Soluble (0.26 g/100 g H₂O)

Partition coefficient (n-octanol/water) Not applicable.

Auto-ignition temperature Not applicable.

Decomposition temperature 1454.4 °C (2650 °F) (Core)

Viscosity Not applicable.

Other information

Bulk density 800 - 1000 kg/m³

Particle size Varies.

VOC 0 (solid)

Section 10: Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions Hazardous polymerisation does not occur.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidising agents. Strong acids.

Hazardous decomposition products In case of fire: Calcium oxides, carbon dioxide, and carbon monoxide.

Section 11: Toxicological information

Information on likely routes of exposure

Inhalation Dust may irritate respiratory system. Prolonged inhalation may be harmful.

Skin contact Dust or powder may irritate the skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Eye contact Dust may irritate the eyes.

Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Dusts may irritate the respiratory tract, skin and eyes.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation This product is not expected to cause skin sensitisation.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not expected to increase the risk of cancer. Repeated and prolonged exposures to high levels of respirable crystalline silica may cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

IARC Monographs. Overall Evaluation of Carcinogenicity

Continuous filament glass fiber (CAS 65997-17-3) 3 Not classifiable as to carcinogenicity to humans.

Crystalline silica (Quartz) (CAS 14808-60-7) 1 Carcinogenic to humans.
US NTP Report on Carcinogens: Anticipated carcinogen
 Continuous filament glass fiber (CAS 65997-17-3) Reasonably Anticipated to be a Human Carcinogen.
US NTP Report on Carcinogens: Known carcinogen
 Crystalline silica (Quartz) (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure Not classified.
Specific target organ toxicity - repeated exposure Not classified.
Aspiration hazard Due to the physical form of the product it is not an aspiration hazard.
Chronic effects Prolonged and repeated overexposure to dust can lead to pneumoconiosis. For detailed information, see section 16.
Further information Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure.

Section 12: Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)		
Aquatic		
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) > 1970 mg/l, 96 hours

Persistence and degradability The product is not readily biodegradable.
Bioaccumulative potential No data available for this product.
Mobility in soil Expected to have low mobility in soil.
Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13: Disposal information

Disposal instructions Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.
Local disposal regulations Dispose of in accordance with local regulations.
Waste from residues / unused products Dispose of in accordance with local regulations.
Contaminated packaging Dispose of in accordance with local regulations.

Section 14: Transportation information

ADR
Not regulated as dangerous goods.
RID
Not regulated as dangerous goods.
IATA
Not regulated as dangerous goods.
IMDG
Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.
Hazchem code None.

Section 15: Regulatory information

Safety, health and environmental regulations specific for the product in question This safety data sheet was prepared in accordance with CLASS (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 and the related CLASS Industry Code of Practice 2014.

Active Ingredients of Pesticide Product (Pesticide Act 1974, First Schedule, as amended through October 1, 2004)

Not regulated.

CWC (Chemical Weapons Convention) Act 2005, Schedules 1-3, as amended through CWC Regulations 2007, October 5, 2007)

Not regulated.

Medical Surveillance Chemicals, Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000: Schedule 2

Crystalline silica (Quartz) (CAS 14808-60-7)

Ozone Depleting Substances (ODS) (Environmental Quality (Prohibition on the Use of CFC and Other Gases as Propellants and Blowing Agents) Order 1993, Dec. 31, 1993)

Not regulated.

Prohibited Use of Substances [Occupational Safety and Health (Prohibition of Use of Substance) Order 1999]

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto Protocol

Not applicable.

Basel Convention

Not applicable.

Section 16: Other information

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Further information This product as sold and under normal conditions of intended use, does not present an inhalation, ingestion or skin hazard. However, individual user processes, (such as sanding, abrasive blasting, etc.) may result in the formation of dust and/or particulate that may present a variety of health hazards.

List of abbreviations

TWA: Time Weighted Average Value.

References

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
EPA: AQUIRE database
ECHA CHEM
HSDB® - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity
NLM: Hazardous Substances Data Base

Disclaimer

USG Boral cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.