SAFETY DATA SHEET



1. Identification

Product identifier SECUROCK® ExoAir® 430 Panels

Other means of identification

SDS number 54000004008

Synonyms Sheathing, Glass Faced Gypsum Panel

Recommended use Exterior use.

Recommended restrictions Use in accordance with manufacturer's recommendations.

Manufacturer/Importer/Supplier/Distributor information

Company name United States Gypsum Company

Address 550 West Adams Street

Chicago, Illinois 60661-3637

Telephone 1-800-874-4968 Website www.usg.com Emergency phone number 1-800-507-8899

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Avoid release to the environment.

Response Get medical attention/advice if you feel unwell.

Storage Store as indicated in Section 7.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%	
Calcium sulfate dihydrate (alternative CAS 10101-41-4)	13397-24-5	> 85	
Calcium carbonate	471-34-1	< 5	
Continuous filament glass fiber	65997-17-3	< 3	
Zinc oxide	1314-13-2	< 0.5	

SECUROCK® ExoAir® 430 Panels SDS US

Composition comments

The gypsum used to manufacture these panels contains respirable crystalline silica ranging up to 0.56 percent by weight, depending on source, as indicated by bulk sampling methods. Industrial hygiene testing using both personal and area sampling measured no detectable respirable crystalline silica when cutting the product by "score and snap," rotary saw, or circular saw. Good work practices which minimize the extent of dust generation should be followed.

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.

Under normal conditions of intended use, this material does not pose a risk to health. Dust may

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

irritate throat and respiratory system and cause coughing.

Most important

symptoms/effects, acute and

delayed Indication of immediate

Provide general supportive measures and treat symptomatically.

medical attention and special treatment needed

General information Ensure that medical personnel are aware of the material(s) involved.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials. Not applicable.

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters Not a fire hazard.

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.

Use standard firefighting procedures and consider the hazards of other involved materials.

Fire-fighting equipment/instructions

Cool material exposed to heat with water spray and remove it if no risk is involved.

Specific methods

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up

No specific clean-up procedure noted. For waste disposal, see Section 13 of the SDS.

Environmental precautions

Avoid discharge to drains, sewers, and other water systems.

7. Handling and storage

Precautions for safe handling

Use work methods which minimize 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.

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.

SECUROCK® ExoAir® 430 Panels SDS US

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.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form	
Calcium carbonate (CAS 471-34-1)	PEL	5 mg/m3	Respirable fraction.	
,		15 mg/m3	Total dust.	
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	PEL	5 mg/m3	Respirable fraction.	
,		15 mg/m3	Total dust.	
Zinc oxide (CAS 1314-13-2)	PEL	5 mg/m3	Respirable fraction.	
		5 mg/m3	Fume.	
		15 mg/m3	Total dust.	
US. ACGIH Threshold Limit Va	alues			
Components	Туре	Value	Form	
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	TWA	10 mg/m3	Inhalable fraction.	
Continuous filament glass fiber (CAS 65997-17-3)	TWA	1 fibers/cm3	Respirable fibers (length > 5 µm & aspect ratio ≥ 3:1)	
		5 mg/m3	Inhalable fraction.	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.	
	TWA	2 mg/m3	Respirable fraction.	
US. NIOSH: Pocket Guide to C	Chemical Hazards			
Components	Туре	Value	Form	
Calcium carbonate (CAS 471-34-1)	TWA	5 mg/m3	Respirable.	
•		10 mg/m3	Total	
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	TWA	5 mg/m3	Respirable.	
,		10 mg/m3	Total	
Continuous filament glass fiber (CAS 65997-17-3)	TWA	3 fibers/cm3	Respirable fibers (≤ 3.5 µm in diameter & ≥ 10 µm in length)	
		5 mg/m3	Fiber, total	
Zinc oxide (CAS 1314-13-2)	Ceiling	15 mg/m3	Dust.	
	STEL	10 mg/m3	Fume.	
	TWA	5 mg/m3	Fume.	
		5 mg/m3	Dust.	
logical limit values	No biological exposure limits noted for the ingredient(s).			

Biological limit values

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

Eye/face protection Wear approved safety goggles.

SDS US 921217 Version #: 01 Revision date: - Issue date: 03-July-2014

Skin protection

It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin Hand protection

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. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator

use. Observe any medical surveillance requirements.

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.

9. Physical and chemical properties

Appearance Paper faced with gypsum core.

Physical state Solid. Panel. **Form**

Color Orange surface; gray to off-white core.

Odor Low to no odor. Not applicable. **Odor threshold**

6 - 8 Ha

Not applicable. Melting point/freezing point Not applicable. Initial boiling point and boiling

range

Not applicable. Flash point Not applicable. **Evaporation rate** 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. Not applicable. Explosive limit - upper (%) Vapor pressure Not applicable.

Relative density 2.32 (Gypsum) (H2O=1)

Solubility(ies)

Vapor density

Solubility (water) 0.26 g/100 g (H2O) Partition coefficient

(n-octanol/water)

Not applicable.

Not applicable.

Auto-ignition temperature Not applicable. 2642 °F (1450 °C) **Decomposition temperature Viscosity** Not applicable.

Other information

Bulk density 48 - 58 lb/ft3 Particle size Varies. VOC (Weight %) < 0.01 %

10. Stability and reactivity

Not available. Reactivity

SECUROCK® ExoAir® 430 Panels SDS US Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Strong acids.

Hazardous decomposition

products

Calcium oxides, carbon dioxide, and carbon monoxide.

11. Toxicological information

Information on likely routes of exposure

Ingestion Not likely, due to the form of the product.

Inhalation Mechanical processing may generate dust. Gypsum dust has an irritant action on mucous

membranes of the upper respiratory tract and eyes (1).

Skin contact Under normal conditions of intended use, this material does not pose a skin hazard. Gypsum was

not found to be a skin irritant (2).

Eye contact Mechanical processing may generate dust. Direct contact with eyes may cause temporary

irritation (1).

Symptoms related to the physical, chemical and toxicological characteristics Under normal conditions of intended use, this material does not pose a risk to health.

Information on toxicological effects

Acute toxicity Low hazard.

Components Species Test Results

Calcium carbonate (CAS 471-34-1)

Acute Oral

LD50 Rat 6450 mg/kg

Skin corrosion/irritation Gypsum was not found to be a skin irritant.

Serious eye damage/eye

irritation

Gypsum does not cause serious eye damage or irritation.

Respiratory or skin sensitization

Respiratory sensitization No data available, but based on results from the skin sensitization study, calcium sulfate is not

expected to be a respiratory sensitizer.

Skin sensitization Not a skin sensitizer (2).

Germ cell mutagenicityNo evidence of mutagenic potential exists (3,4,5). **Carcinogenicity**No evidence of carcinogenic potential exists (6).

IARC Monographs. Overall Evaluation of Carcinogenicity

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity No evidence of reproductive toxicity exists (2).

Specific target organ toxicity -

single exposure

Not toxic to lung tissue.

Specific target organ toxicity -

repeated exposure

Not toxic to lung tissue (6).

Aspiration hazardDue to the physical form of the product it is not an aspiration hazard.

Further information Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease

might be aggravated by exposure.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

SECUROCK® ExoAir® 430 Panels

50 US

Components Species Test Results

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) > 1970 mg/l, 96 hours

Zinc oxide (CAS 1314-13-2)

Aquatic

Crustacea LC50 Water flea (Daphnia magna) 0.098 mg/l, 48 hours

Persistence and degradability Not applicable for the salt of inorganic compounds. Calcium sulfate dissolves in water without

undergoing chemical degradation.

Bioaccumulative potential Bioaccumulation is not expected.

Mobility in soil Calcium sulfate has a low potential for adsorption to soil. If water is applied, gypsum dissolves and

the calcium and sulfate ions are mobile and penetrate the subsoil (7).

Other adverse effects None expected.

13. Disposal considerations

Disposal instructionsDispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.

Local disposal regulations Dispose of in accordance with local regulations.

Hazardous waste code Not regulated.

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Dispose of in accordance with local regulations.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations This product is not hazardous according to OSHA 29CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Zinc oxide (CAS 1314-13-2) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

SECUROCK® ExoAir® 430 Panels

SDS US

Safe Drinking Water Act

(SDWA)

Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Calcium carbonate (CAS 471-34-1)

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)

Zinc oxide (CAS 1314-13-2)

US. New Jersey Worker and Community Right-to-Know Act

Calcium carbonate (CAS 471-34-1)

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)

Zinc oxide (CAS 1314-13-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Calcium carbonate (CAS 471-34-1)

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)

Zinc oxide (CAS 1314-13-2)

US. Rhode Island RTK

Zinc oxide (CAS 1314-13-2)

US. California Proposition 65

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

International Inventories

Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 03-July-2014

Revision date - 01

Further information The International Agency for Research on Cancer (IARC) in June, 1987, categorized continuous

filament glass fibers as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify continuous filament glass fiber as a possible, probable, or confirmed cancer causing material. The ACGIH has established a TLV (Threshold Limit Value or recommended exposure limit) for continuous filament glass fiber of 1 fiber per cubic centimeter of air for respirable fibers and 5 mg per cubic meter of air for inhalable glass fiber dust. These levels were established to prevent mechanical irritation of the upper airways. IARC, NTP (US National Toxicology Program) and OSHA (US Occupational Safety and Health Administration) do not list continuous filament glass fibers as a carcinogen. As manufactured, continuous filament glass fibers in this product are not respirable. Continuous filament glass products that are chopped, crushed or severely mechanically processed during manufacturing or use may contain a very small amount of respirable particulate.

some of which may be glass shards.

NFPA Ratings: Health: 1 Flammability: 0 Physical hazard: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS® ratings Health: 0

Flammability: 0 Physical hazard: 0

NFPA ratings



List of abbreviations NFPA: National Fire Protection Association.

921217 Version #: 01 Revision date: - Issue date: 03-July-2014 7 / 8

Yes

References

- 1. US National Library of Medicine (NLM) (1998). Hazardous Substances Data Bank (HSDB).
- 2. Tested by LG Life Science/Toxicology Center, Korea (2002). National Institute of Environmental Research (NIER).
- 3. Dopp E et al. (1995). Environ. Health Perspect. 103(3), 268-271.
- 4. Cremer H.H. et al. (1988). Wiss. Umwelt. 4, 202-205.
- 5. Fujita H et al. (1988). Kenkya Nenpo-Tokyo-Toritsu Eisei Kenkynsho. 39, 343-350.
- 6. Clouter et al. (1998). Inhal. Toxicol. 10, 3-14.
- 7. Shainberg et al. (1989). Advanced Soil Sci. 9, 1-111.

Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

SECUROCK® ExoAir® 430 Panels SDS US