

## SAFETY DATA SHEET

## 1. Identification

Product identifier	USG STRUCTO-CRETE® Brand Structural Panels
Other means of identification	
SDS number	14000030003
Synonyms	USG STRUCTO-CRETE® Brand Structural Roof Deck Panels, USG STRUCTO-CRETE® Brand Structural Xtra Strength Panels, USG Structural Panel
Recommended use	For interior and exterior applications.
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	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
	Carcinogenicity	Category 1A
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
OSHA defined hazards	Not classified.	

#### OSHA defined hazards

Label elements



Signal word	Danger
Hazard statement	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May cause cancer.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Take off contaminated clothing and wash it before reuse.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

## 3. Composition/information on ingredients

### Mixtures

Mixtures Chomical name		CAS number	0/
Chemical name Plaster of Paris (Calcium sulfate	2	26499-65-0	<mark>%</mark> > 50
hemihydrate CAS 10034-76-1)	2	20499-05-0	> 50
Portland Cement		65997-15-1	< 25
Silica, fume		69012-64-2	< 15
Continuous filament glass fiber		65997-17-3	< 10
Trade secret		Proprietary	< 10
Impurities			
Chemical name	Common name and synonyms	CAS number	%
Crystalline silica (Quartz)		14808-60-7	< 1
Composition comments	All concentrations are in percent by weight.		
	Raw materials in this product contain respirat percent of respirable crystalline silica found ir crystalline silica during the normal use of this testing.	n this product is < 1%. Exposur	es to respirable
4. First-aid measures			
Inhalation	Dust irritates the respiratory system, and may injured person into fresh air and keep person symptoms persist.		
Skin contact	Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops and persists.		
Eye contact	Dust in eyes: Flush with cold tap water for at least 15 minutes. If irritation persists, seek medical attention immediately.		
Ingestion	Rinse mouth. Get medical attention if symptoms occur.		
Most important symptoms/effects, acute and delayed	Dust may cause skin, eye, throat and respiratory system irritation and cause coughing. Prolonged exposure may cause chronic effects.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre	at symptomatically.	
General information	Ensure that medical personnel are aware of the material(s) involved.		
5. Fire-fighting measures			
Suitable extinguishing media	Use fire-extinguishing media appropriate for s	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 firefight the workplace. Self-contained breathing appa case of fire.		
Fire fighting equipment/instructions	Use standard firefighting procedures and con	sider the hazards of other invo	ved materials.
Specific methods	Cool material exposed to heat with water spra	ay and remove it if no risk is inv	olved.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Do not to wearing appropriate protective clothing. See S Equipment.		
Methods and materials for	No specific clean-up procedure noted. For waste disposal, see Section 13 of the SDS.		

Methods and materials for 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

7. Handling and Storage	
Precautions for safe handling	Use work methods which minimize dust production. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
	Structural panels weigh between 140 to 150 pounds per panel and are designed to be carried and installed by two people. Because of the weight of these panels, it is important that they are always laid flat on the floor or flat over the framing, in a horizontal position. Prior to installation on the floor framing, panels may be placed on pallets or timbers. Panels may be placed on pallets or timbers spaced a maximum of 4' on center with the end supports within 1' of the ends of the panel.
	Structural panels are cement based and are reinforced with glass fiber. Wear protective gloves to prevent any irritation to hands from the cement or glass fiber.
	Cut panels with a carbide tipped circular saw equipped with a dry dust collection device or a dust wetting device to limit the amount of airborne dust. Dispose of the collected dust in a safe manner in compliance with local codes and regulations. When cutting panels always wear a NIOSH approved dust mask and wear safety glasses.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Protect from weather and prevent exposure to sustained moisture.
	Panels must never be stored in an upright position, on their edges, leaning against a wall or other vertical support. If these panels tip over they could cause serious injury or death.
	When placing pallets of material on a floor or floor frame it is imperative that the pallet be located over load bearing walls and framing that are capable of supporting the total load of a 20 piece pallet, which range between 3000 to 3100 pounds. Consult a qualified structural engineer or design professional, as required, for safe and proper distribution of pallets of panels over a floor frame and/or floor structure.

## 8. Exposure controls/personal protection

### **Occupational exposure limits**

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Impurities	Туре	Value		
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m3		
JS. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)				
Components	Туре	Value	Form	
Plaster of Paris (Calcium sulfate hemihydrate CAS 10034-76-1) (CAS 26499-65-0)	PEL	5 mg/m3	Respirable fraction.	
		15 mg/m3	Total dust.	
Portland Cement (CAS 65997-15-1)	PEL	5 mg/m3	Respirable fraction.	
		15 mg/m3	Total dust.	
US. OSHA Table Z-3 (29 CFR 1910.1000)	1			
Components	Туре	Value	Form	
Plaster of Paris (Calcium sulfate hemihydrate CAS 10034-76-1) (CAS 26499-65-0)	TWA	5 mg/m3	Respirable fraction.	
		15 mg/m3	Total dust.	
		50 mppcf	Total dust.	
		15 mppcf	Respirable fraction.	
Portland Cement (CAS 65997-15-1)	TWA	50 mppcf		
Silica, fume (CAS 69012-64-2)	TWA	5 mg/m3	Respirable fraction.	
		15 mg/m3	Total dust.	
		0.8 mg/m3		

## US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	Form
		20 mppcf	
Trade secret	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Impurities	Туре	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit V			-
Components	Туре	Value	Form
Plaster of Paris (Calcium sulfate hemihydrate CAS 10034-76-1) (CAS 26499-65-0)	TWA	10 mg/m3	Inhalable fraction.
Portland Cement (CAS 65997-15-1)	TWA	1 mg/m3	Respirable fraction.
Impurities	Туре	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to (	Chemical Hazards		
Components	Туре	Value	Form
Continuous filament glass fiber (CAS 65997-17-3)	TWA	3 fibers/cm3	Fibrous dust.
		3 fibers/cm3	Fiber.
		5 mg/m3	fibers, total dust
		5 mg/m3	Fiber, total
Plaster of Paris (Calcium sulfate hemihydrate CAS 10034-76-1) (CAS 26499-65-0)	TWA	5 mg/m3	Respirable.
,		10 mg/m3	Total
Portland Cement (CAS 65997-15-1)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Silica, fume (CAS 69012-64-2)	TWA	6 mg/m3	
Trade secret	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Impurities	Туре	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
. ,	No biological exposure limits noted f	or the ingredient(s).	
ropriate engineering	Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimize the risk of exposure.		bserve occupational
	uch as personal protective equipm		
-	Wear approved safety goggles.		
Skin protection			

USG STRUCTO-CRETE® Brand Structural Panels

Skin protection	
Other	Wear long-sleeved shirts, pants and rubber boots.
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.
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	
Physical state	Solid.
Form	Board.
Color	Gray.
Odor	Low to no odor.
Odor threshold	Not applicable.
рН	10 - 12
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 exp	losive limits
Explosive limit - lower (%)	Not applicable.
Explosive limit - upper (%)	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	1.2 - 1.4 (H20 = 1)
Solubility(ies)	
Solubility (water)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not applicable.
Viscosity	Not applicable.
Other information	
Bulk density	72 - 88 lb/ft3
Explosive properties	Not explosive.
Flammability	Not applicable.
Oxidizing properties	Not oxidizing.
VOC	0 g/l
10. Stability and reactivity	
Reactivity	The product is stable and non reactive under normal conditions of storage and transport.

Reactivity	The product is stable and non reactive under normal conditions of storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous	Hazardous polymerization does not occur.
reactions	

Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Calcium oxides. Sulfur oxides.

## 11. Toxicological information

### Information on likely routes of exposure

Information on likely routes of e	-			
Inhalation	Inhalation of dusts may cause respiratory irritation. Prolonged and repeated exposure to airborne respirable crystalline silica can cause silicosis and/or lung cancer.			
Skin contact	Dust can be irritating to skin.			
Eye contact	Causes serious eye damage.			
Ingestion	Ingestion may cause irritation and stomach discomfort.			
Symptoms related to the physical, chemical and toxicological characteristics	Dust may cause skin, eye, throat and respiratory system irritation and cause coughing.			
Information on toxicological eff	ects			
Acute toxicity	Not expected to be acutely to	xic.		
Skin corrosion/irritation	Dust can cause skin irritation.			
Serious eye damage/eye irritation	Causes serious eye damage.			
Respiratory or skin sensitizatio				
Respiratory sensitization		Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin re			
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	Repeated and prolonged exposures to high levels of respirable crystalline silica may cause cancer.			
IARC Monographs. Overall	Evaluation of Carcinogenicity			
Crystalline silica (Quartz Silica, fume (CAS 69012	2-64-2) 3 Not classifiable as to carcinogenicity to humans.			
NTP Report on Carcinogen		Known To Bo Human Caroinagan		
Crystalline silica (Quartz OSHA Specifically Regulate	ed Substances (29 CFR 1910.1	Known To Be Human Carcinogen. 001-1053)		
Crystalline silica (Quartz	=	Cancer		
Reproductive toxicity	Not expected to be a reprodu	ctive hazard.		
Specific target organ toxicity - single exposure	May cause respiratory irritation	May cause respiratory irritation.		
Specific target organ toxicity - repeated exposure	Not classified. For detailed information, see section 16.			
Aspiration hazard	Due to the physical form of th	e product it is not an aspiration hazard.		
Chronic effects	Prolonged and routine inhalation of high levels of respirable crystalline silica particles can lead to the lung disease known as silicosis. Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica. Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. May cause eczema-like skin disorders (dermatitis).			
12. Ecological information	า			
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			
	ata hamibudrata CAS 10021 76	() (0.1.0, 0.0, 0.0, 0.0)		

components			
Plaster of Paris (Calo	cium sulfate hemihydra	te CAS 10034-76-1) (CAS 26499-65-0)	
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas) > 1970 mg/l, 9	6 hours
			000.000

Persistence and degradability	No data available.
Bioaccumulative potential	Bioaccumulation is not expected.
Mobility in soil	No data available.
Other adverse effects	None expected.

### 13. Disposal considerations

Disposal instructions	Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.	
Local disposal regulations	Dispose of in accordance with local regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	Dispose 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.

# Transport in bulk according toNot applicable.Annex II of MARPOL 73/78 andthe IBC Code

### 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

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

Cancer lung effects immune system effects kidney effects

### **Toxic Substances Control Act (TSCA)**

All components on the TSCA 8(b) inventory are designated "active" or are exempt from reporting under the Inventory Update Rule.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical Classified hazard

categories

Skin corrosion or irritation Serious eye damage or eye irritation Respiratory or skin sensitization Carcinogenicity Specific target organ toxicity (single or repeated exposure)

### 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 Not regulated.	112(r) Accidental Release Prevention (40 CFR 68.130)
Safe Drinking Water Act (SDWA)	Not regulated.
US state regulations	
US. Massachusetts RTK - Su	ubstance List
Portland Cement (CAS 65 Silica, fume (CAS 69012- Trade secret (CAS Propri	sulfate hemihydrate CAS 10034-76-1) (CAS 26499-65-0) 5997-15-1) 64-2)
Continuous filament glass Crystalline silica (Quartz)	s fiber (CAS 65997-17-3) (CAS 14808-60-7) sulfate hemihydrate CAS 10034-76-1) (CAS 26499-65-0) 5997-15-1) 64-2)
US. Pennsylvania Worker ar	nd Community Right-to-Know Law
Portland Cement (CAS 65 Silica, fume (CAS 69012- Trade secret (CAS Propri	sulfate hemihydrate CAS 10034-76-1) (CAS 26499-65-0) 5997-15-1) 64-2)
US. Rhode Island RTK	
Continuous filament glass Crystalline silica (Quartz) Plaster of Paris (Calcium Portland Cement (CAS 65 Silica, fume (CAS 69012-	(CAS 14808-60-7) sulfate hemihydrate CAS 10034-76-1) (CAS 26499-65-0) 5997-15-1)

### **California Proposition 65**



**WARNING:** This product can expose you to chemicals including Crystalline silica (Quartz), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Crystalline silica (Quartz) (CAS 14808-60-7) Listed: October 1, 1988 US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Continuous filament glass fiber (CAS 65997-17-3) Crystalline silica (Quartz) (CAS 14808-60-7)

### International Inventories

Country(s) or region	Inventory name On inventory	(yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No
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\*A "Yes" indicates that all components of this product comply 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	25-February-2022
Revision date	-
Version #	01

Crystalline silica: Raw materials in this product contain respirable crystalline silica as an impurity. 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 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: 2 Flammability: 0 Physical hazard: 0

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



Disclaimer

**NFPA** ratings

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.