SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: BrickWal Panel

This product is a finished formed wall panel and is not considered a hazard unless further processed, handled, or by other means generates dust. The hazards and information throughout the safety data sheet cover hazards from the materials within this product in powered/dust form.

1.2. Intended Use of the Product

No additional information available

1.3. Name, Address, and Telephone of the Responsible Party

Company

Fullerton Finish Systems
8645 West 21st Street
P.O. Box 609
Sand Springs, OK 74063
918-246-9995
www.fullertonfinishsystems.com

1.4. Emergency Telephone Number

Emergency Number : 918-246-9995

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

This product is a finished formed wall panel and is not considered a hazard unless further processed, handled, or by other means generates dust. The hazards and information throughout the safety data sheet cover hazards from the materials within this product in powered/dust form.

Eye Irrit. 2B	H320
Carc. 1A	H350
STOT SE 3	H335
STOT RE 1	H372

Full text of hazard classes and H-statements : see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :

GHS07 GHS08

Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H320 - Causes eye irritation.
H335 - May cause respiratory irritation.
H350 - May cause cancer (Inhalation).
H372 - Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (Inhalation).

Precautionary Statements (GHS-US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust, or particulates.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, and eye protection.
P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P312 - Call a poison center or doctor if you feel unwell.
P314 - Get medical advice/attention if you feel unwell.
P337+P313 - If eye irritation persists: Get medical advice/attention.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

In the event of dust exposure: Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	%	GHS US classification
Quartz	Quartz (SiO2) / Silica, crystalline, quartz / Crystalline silica, quartz / .alpha.-Quartz / Silica, crystalline, .alpha.-quartz / QUARTZ / Quartz, silica / Quartz (respirable fraction) / Silica dust / Silica, crystalline-.alpha.quartz / Crystalline silica in the form of quartz / Silica, .alpha.-quartz / Silicon dioxide / Silica, quartz / Silica, crystalline / Quartz (crystalline silica)	(CAS-No.) 14808-60-7	23.47 - 33.72	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372
Mullite	Aluminosilicate, mullite / Mullite ($Al_6O_5(SiO_4)_2$)	(CAS-No.) 1302-93-8	14.75 - 20.65	Not classified
Cement, portland, chemicals	Portland cement / Silicate, portland cement / Cement (Portland) / Cement kiln dust / Cement Portland	(CAS-No.) 65997-15-1	8.7 - 18.85	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
Silica, cristobalite	Cristobalite / Cristobalite (SiO_2) / Silica, crystalline - cristobalite / Silica, crystalline, cristobalite / Cristobalite (Silica) / Silica-crystalline, cristobalite / Silica, crystalline cristobalite / Silica - crystalline, cristobalite / Silica crystalline, cristobalite / Silica-crystalline cristobalite / Silica, crystalline-cristobalite / Silica (crystalline, cristobalite) / Silica crystalline cristobalite / Crystalline SiO_2, cristobalite / Crystalline silica in the form of cristobalite / Silica	(CAS-No.) 14464-46-1	8.85 - 12.39	Carc. 1A, H350 STOT RE 1, H372
Limestone	Chalk / Limestone (A noncombustible solid characteristic of sedimentary rock. It consists primarily of calcium carbonate.) / Natural calcium carbonate / Marble / Calcium carbonate / Limestone (sedimentary rock) / Calcite / Limestone ground / Acetate, 4-methyl-2-propyl-2H-tetrahydropyran-4-yl / Ground limestone	(CAS-No.) 1317-65-3	9.56 - 9.71	Not classified
Carbonic acid, calcium salt (1:1)	C.I. Pigment White 18 / Calcium carbonate / Pigment White 18 / C.I. 77220 / Carbonic acid, calcium salt / CALCIUM CARBONATE	(CAS-No.) 471-34-1	< 8.7	Not classified

Silicic acid, aluminum calcium salt	Aluminum calcium silicate / Silicic acid, aluminium calcium salt / Calcium aluminosilicate / Calcium aluminium silicate / Calcium aluminum silicate / Silicate cement	(CAS-No.) 1327-39-5	< 5.8	Skin Corr. 1B, H314
Hematite	Haematite / Hematite (Fe2O3) / Iron oxide, red / Abrasive blasting agents (Specular hematite) / Hematite, iron oxide / Iron oxide / Iron(III) oxide	(CAS-No.) 1317-60-8	1.77 - 5.31	Not classified
Cellulose	Cellulose/sodium salts blend / Cellulose (paper fibres) / Microcrystalline cellulose / CELLULOSE / Cellulose, microcrystalline / 4-O-.beta.-D-Glucopyranosyl-D-glucopyranose / MICROCRYSTALLINE CELLULOSE	(CAS-No.) 9004-34-6	< 4.35	Comb. Dust
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-	Propylene glycol diamine, 2-amino-, diether with Propylene / Polypropylene glycol bis(2-aminopropyl) ether / Jeffamine D-230 / Diaminopolypropylene glycol / Polypropylene glycol bis(aminopropyl) ether / Poly(oxypropylene)diamine / Poly(propyleneglycol)diamine / Poly(oxy(methyl-1,2-ethanediyl)), .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- / O,O'-Bis(2-aminopropyl)polypropylene glycol / .alpha.-[2-(Aminomethyl)ethyl)]-.omega.-(2-aminomethylethoxy)poly[oxy(methylethylene)] / Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl groups / Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	(CAS-No.) 9046-10-0	1.14 - 1.90	Skin Corr. 1C, H314 Eye Dam. 1, H318 Asp. Tox. 1, H304 Aquatic Acute 3, H402 Aquatic Chronic 2, H411
Manganese oxide (MnO2)	Manganese dioxide / Black manganese oxide / C.I. Pigment Black 14 / C.I. Pigment Brown 8 / Manganese Black / Manganese(IV) oxide / Pyrolusite Brown / MANGANESE DIOXIDE / Manganese peroxide / C.I. 77728	(CAS-No.) 1313-13-9	<= 1.77	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 STOT RE 1, H372
Chromite ore	Chromite / Chromite (mineral) / Dichromium iron tetraoxide / Iron chromite / Chromite (Cr2FeO4) / Iron chromite (Cr2FeO4)	(CAS-No.) 1308-31-2	<= 1.77	Carc. 1A, H350
Potassium oxide (K2O)	Potassium oxide / Dipotassium oxide / Potassium monoxide	(CAS-No.) 12136-45-7	0.59 - 1.18	Skin Corr. 1A, H314 Eye Dam. 1, H318
Titanium dioxide	C.I. 77891 / C.I. Pigment White 6 / Titanium oxide (TiO2) / CI 77891 / Titanium(IV) oxide / C.I. Pigment White 7 / Pigment White 6 / Titanium dioxide nanoparticles / TITANIUM DIOXIDE / Titanium oxide	(CAS-No.) 13463-67-7	0.59 - 1.18	Carc. 2, H351

Triethanolamine	Ethanol, 2,2',2''-nitrilotri- / Ethanol, 2,2',2''-nitrilotris- / 2,2',2''-Nitrilotriethanol / TEA / Tris(2-hydroxyethyl)amine / TRIETHANOLAMINE / Tris(hydroxyethyl)amine / Trolamine / Tri(2-hydroxyethyl)amine	(CAS-No.) 102-71-6	0.23 - 0.38	Not classified
Carbon black	C.I. 77266 / C.I. Pigment Black 6 / C.I. Pigment Black 7 / Carbon blacks / Lampblack / CI 77266 / Vegetable carbon / Microjet Black CW / Pigment Black 7 / Coal soot / Coal soots / Channel black / Bonjet Black CW / D and C Black No. 4	(CAS-No.) 1333-86-4	<= 0.29	Carc. 2, H351 Comb. Dust
Piperazine	1,4-Diethylenediamine / Hexahydropyrazine / Diethylenediamine / Piperazine [liquid] / Piperazine [solid]	(CAS-No.) 110-85-0	0.049 - 0.11	Flam. Sol. 1, H228 Acute Tox. 4 (Dermal), H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 Resp. Sens. 1B, H334 Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Stearic acid	1-Heptadecanecarboxylic acid / Neo-fat 18 / n-Octadecanoic acid / Octadecanoic acid / STEARIC ACID	(CAS-No.) 57-11-4	0.078	Comb. Dust
Water	AQUA	(CAS-No.) 7732-18-5	< 0.06	Not classified
1-Piperazineethanamine	N-(2-Aminoethyl)piperazine / 1-(2-Aminoethyl)piperazine / N-Aminoethylpiperazine / 2-Piperazin-1-ylethylamine / Piperazine, 1-(2-aminoethyl)- / Piperazine, N-aminoethyl- / 2-(Piperazin-1-yl)ethylamine / 2-(1-Piperazinyl)ethylamine / Aminoethylpiperazine	(CAS-No.) 140-31-8	0.026 - 0.049	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: For particulates and dust: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: For particulates and dust: Remove contaminated clothing. Drench affected area with water for at least 5 minutes. If skin irritation or rash occurs: Get medical advice/attention.

First-aid Measures After Eye Contact: For particulates and dust: Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

First-aid Measures After Ingestion: For particulates and dust: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Not expected to present a significant hazard under anticipated conditions of normal use. The health effects listed below are not likely to occur unless dust is generated by processing. For particulates and dust: Causes eye irritation. May cause respiratory irritation. May cause cancer. Causes damage to organs through prolonged or repeated exposure.

Symptoms/Injuries After Inhalation: For particulates and dust: Irritation of the respiratory tract and the other mucous membranes. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a seriously disabling and fatal lung disease.

Symptoms/Injuries After Skin Contact: For particulates and dust: Prolonged exposure may cause skin irritation. May cause an allergic reaction in sensitive individuals.

Symptoms/Injuries After Eye Contact: For particulates and dust: May cause moderate irritation, including burning sensation, tearing, redness or swelling.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects. For particulates and dust:

Chronic Symptoms: For particulates and dust: May cause cancer. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a seriously disabling and fatal lung disease. Some studies show that exposure to respirable crystalline silica (without silicosis) or that the disease silicosis may be associated with the increased incidence of several autoimmune disorders such as scleroderma (thickening of the skin), systemic lupus erythematosus, rheumatoid arthritis and diseases affecting the kidneys. Silicosis increases the risk of tuberculosis. Some studies show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica. Repeated or prolonged inhalation of dust particles may cause effects on the lungs. This may result in fibrosis (pneumoconiosis).

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Product is not flammable.

Explosion Hazard: Product is not explosive. Contains substances that are combustible dusts. If the product is processed and dusts are generated and become dispersed with an ignition source, this may cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations.

Reactivity: Hazardous reactions will not occur under normal conditions. Quartz (silica) will dissolve in hydroflouric acid producing a corrosive gas, silicon tetrafluoride.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: None expected under normal conditions of use.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not handle until all safety precautions have been read and understood. For particulates and dust: Do not breathe dust. Avoid contact with skin, eyes and clothing. Avoid generating dust.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Avoid generation of dust during clean-up of spills.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Utilize a dust suppressant when removing mechanically. Avoid generation of dust during clean-up of spills. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: For particulates and dust: Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss. Contains substances that are combustible dusts. If the material is further processed and dust is allowed to accumulate, may form combustible dust concentrations in air that could ignite and cause an explosion.

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. For particulates and dust: Do not breathe dust. Avoid contact with skin, eyes and clothing.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

Incompatible Materials: Strong oxidizing agents. Strong reducing agents. Strong acids. Fluorine. Ammonium salts. Hydrofluoric acid will react with and dissolve glass, and other silica containing material.

7.3. Specific End Use(s) No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Triethanolamine (102-71-6)		
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³

Piperazine (110-85-0)		
USA ACGIH	ACGIH TWA (ppm)	0.03 ppm (inhalable fraction and vapor)
USA ACGIH	ACGIH chemical category	dermal sensitizer,Not Classifiable as a Human Carcinogen

Limestone (1317-65-3)		
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³ (respirable particulate matter)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.05 mg/m³ (respirable dust)
USA IDLH	US IDLH (mg/m³)	50 mg/m³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m³)	50 µg/m³ (Respirable crystalline silica)

Stearic acid (57-11-4)		
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (inhalable particulate matter (Stearates)) 3 mg/m³ (respirable particulate matter (Stearates))

Cement, portland, chemicals (65997-15-1)		
USA ACGIH	ACGIH TWA (mg/m³)	1 mg/m³ (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
USA IDLH	US IDLH (mg/m³)	5000 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)

Cellulose (9004-34-6)		
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust)

		5 mg/m³ (respirable fraction)
Carbon black (1333-86-4)		
USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m³ (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA NIOSH	NIOSH REL (TWA) (mg/m³)	3.5 mg/m³ 0.1 mg/m³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)
USA IDLH	US IDLH (mg/m³)	1750 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	3.5 mg/m³
Carbonic acid, calcium salt (1:1) (471-34-1)		
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
Silica, crystalline (general form)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	50 µg/m³ (excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays)
Wood dust, all soft and hard woods		
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1 mg/m³
Silica, cristobalite (14464-46-1)		
USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³ (respirable particulate matter)
USA ACGIH	ACGIH chemical category	Suspected Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.05 mg/m³ (respirable dust)
USA IDLH	US IDLH (mg/m³)	25 mg/m³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m³)	50 µg/m³ (Respirable crystalline silica)
Titanium dioxide (13463-67-7)		
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m³)	2.4 mg/m³ (CIB 63-fine) 0.3 mg/m³ (CIB 63-ultrafine, including engineered nanoscale)
USA IDLH	US IDLH (mg/m³)	5000 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust)
Manganese compounds		
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1 mg/m³
USA NIOSH	NIOSH REL (STEL) (mg/m³)	3 mg/m³
USA IDLH	US IDLH (mg/m³)	500 mg/m³
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	5 mg/m³
Manganese inorganic compounds		
USA ACGIH	ACGIH TWA (mg/m³)	0.02 mg/m³ (respirable particulate matter) 0.1 mg/m³ (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
Aluminum insoluble compounds		
USA ACGIH	ACGIH TWA (mg/m³)	1 mg/m³ (respirable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen

8.2. Exposure Controls

Appropriate Engineering Controls : For particulates and dust: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment : Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.

Materials for Protective Clothing : Chemically resistant materials and fabrics.

Hand Protection : Wear protective gloves.
Eye and Face Protection : Chemical goggles or safety glasses.
Skin and Body Protection : Wear suitable protective clothing.
Respiratory Protection : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
Other Information : When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Solid
Appearance : No data available
Odor : No data available
Odor Threshold : No data available
pH : No data available
Evaporation Rate : No data available
Melting Point : No data available
Freezing Point : No data available
Boiling Point : No data available
Flash Point : No data available
Auto-ignition Temperature : No data available
Decomposition Temperature : No data available
Flammability (solid, gas) : No data available
Vapor Pressure : No data available
Relative Vapor Density at 20°C : No data available
Relative Density : No data available
Solubility : No data available
Partition Coefficient: N-Octanol/Water : No data available
Viscosity : No data available

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Hazardous reactions will not occur under normal conditions. Quartz (silica) will dissolve in hydroflouric acid producing a corrosive gas, silicon tetrafluoride.

10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4. Conditions to Avoid: Extremely high temperatures. Incompatible materials. Avoid formation of concentrated dusts suspended in air.

10.5. Incompatible Materials: Strong oxidizing agents. Strong reducing agents. Strong acids. Fluorine. Ammonium salts. Hydrofluoric acid will react with and dissolve glass, and other silica containing material.

10.6. Hazardous Decomposition Products: None expected under normal conditions of use. Thermal decomposition may produce : Carbon oxides (CO, CO_2). acrid vapors. Calcium oxides. Nitrogen oxides. Metal oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity (Oral): Not classified
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0)	
LD50 Oral Rat	2885.3 mg/kg

Triethanolamine (102-71-6)	
LD50 Oral Rat	6400 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg

Piperazine (110-85-0)	
LD50 Dermal Rabbit	1590 mg/kg

ATE (Dermal)	1,590.00 mg/kg body weight
1-Piperazineethanamine (140-31-8)	
LD50 Oral Rat	2140 µl/kg
LD50 Dermal Rabbit	880 µl/kg
Quartz (14808-60-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
Stearic acid (57-11-4)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
Cellulose (9004-34-6)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 5800 mg/m³ (Exposure time: 4 h)
Carbon black (1333-86-4)	
LD50 Oral Rat	> 8000 mg/kg
Carbonic acid, calcium salt (1:1) (471-34-1)	
LD50 Oral Rat	6450 mg/kg
Titanium dioxide (13463-67-7)	
LD50 Oral Rat	> 10000 mg/kg
Manganese oxide (MnO2) (1313-13-9)	
LC50 Inhalation Rat	> 1500 mg/m³ (Exposure time: 4 h)

Skin Corrosion/Irritation: Not classified.

Serious Eye Damage/Irritation: Causes eye irritation.

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified

Carcinogenicity: May cause cancer (Inhalation).

Triethanolamine (102-71-6)	
IARC group	3
Quartz (14808-60-7)	
IARC group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Carbon black (1333-86-4)	
IARC group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Silica, crystalline (general form)	
IARC group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
OSHA Specifically Regulated Carcinogen List	In OSHA Specifically Regulated Carcinogen list.
Wood dust, all soft and hard woods	
IARC group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Silica, cristobalite (14464-46-1)	
IARC group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Hematite (1317-60-8)	
IARC group	3
Titanium dioxide (13463-67-7)	

IARC group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Chromite ore (1308-31-2)	
IARC group	3
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (Inhalation).

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: For particulates and dust: Irritation of the respiratory tract and the other mucous membranes. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a seriously disabling and fatal lung disease.

Symptoms/Injuries After Skin Contact: For particulates and dust: Prolonged exposure may cause skin irritation. May cause an allergic reaction in sensitive individuals.

Symptoms/Injuries After Eye Contact: For particulates and dust: May cause moderate irritation, including burning sensation, tearing, redness or swelling.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects. For particulates and dust:

Chronic Symptoms: For particulates and dust: May cause cancer. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a seriously disabling and fatal lung disease. Some studies show that exposure to respirable crystalline silica (without silicosis) or that the disease silicosis may be associated with the increased incidence of several autoimmune disorders such as scleroderma (thickening of the skin), systemic lupus erythematosus, rheumatoid arthritis and diseases affecting the kidneys. Silicosis increases the risk of tuberculosis. Some studies show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica. Repeated or prolonged inhalation of dust particles may cause effects on the lungs. This may result in fibrosis (pneumoconiosis).

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Not classified.

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0)	
LC50 Fish 1	> 15 mg/l (Exposure: 96 h - OECD Test Guideline 203)
EC50 Daphnia 1	80 mg/l (48 h - Daphnia magna)
LC50 Fish 2	772.14 mg/l (Exposure: 96 h - OECD Test Guideline 203)
EC50 Daphnia 2	418.34 mg/l (48 h - Acartia tonsa)
ErC50 (Algae)	15 mg/l (72 h - Selenastrum capricornutum)

Triethanolamine (102-71-6)	
LC50 Fish 1	10600 (10600 - 13000) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	1386 mg/l
LC50 Fish 2	1000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
ErC50 (Algae)	169 mg/l
NOEC Chronic Crustacea	16 mg/l

Piperazine (110-85-0)	
LC50 Fish 1	> 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	21 mg/l
NOEC Chronic Crustacea	12.5 mg/l

1-Piperazineethanamine (140-31-8)	
LC50 Fish 1	1950 - 2460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	32 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	> 1000 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])

Carbon black (1333-86-4)	
EC50 Daphnia 1	5600 mg/l (Exposure time: 24 h - Species: Daphnia magna)

12.2. Persistence and Degradability

BrickWal Panel	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

BrickWal Panel	
Bioaccumulative Potential	Not established.

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0)	
Log Pow	1.34 at 25°C

Triethanolamine (102-71-6)	
BCF Fish 1	3.9
Log Pow	-2.53

Piperazine (110-85-0)	
BCF Fish 1	0.3 - 3.9

1-Piperazineethanamine (140-31-8)	
BCF Fish 1	(no bioaccumulation expected)
Log Pow	-1.48

Carbonic acid, calcium salt (1:1) (471-34-1)	
BCF Fish 1	(no bioaccumulation)

Manganese oxide (MnO2) (1313-13-9)	
BCF Fish 1	(no bioaccumulation expected)
Log Pow	< 0 (at 20 °C)

12.4. Mobility in Soil

Stearic acid (57-11-4)	
Log Koc	51.05

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT Not regulated for transport

14.2. In Accordance with IMDG Not regulated for transport

14.3. In Accordance with IATA Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

BrickWal Panel	
SARA Section 311/312 Hazard Classes	Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Carcinogenicity Health hazard - Serious eye damage or eye irritation

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- (9046-10-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

Triethanolamine (102-71-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Piperazine (110-85-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

1-Piperazineethanamine (140-31-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Limestone (1317-65-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Quartz (14808-60-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Stearic acid (57-11-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Cement, portland, chemicals (65997-15-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Silicic acid, aluminum calcium salt (1327-39-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Cellulose (9004-34-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
Carbon black (1333-86-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Carbonic acid, calcium salt (1:1) (471-34-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Mullite (1302-93-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Silica, cristobalite (14464-46-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Hematite (1317-60-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Potassium oxide (K2O) (12136-45-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Titanium dioxide (13463-67-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Manganese oxide (MnO2) (1313-13-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Manganese compounds	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 %

15.2. US State Regulations

Triethanolamine (102-71-6)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Piperazine (110-85-0)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
1-Piperazineethanamine (140-31-8)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Limestone (1317-65-3)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Quartz (14808-60-7)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Cement, portland, chemicals (65997-15-1)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Cellulose (9004-34-6)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Carbon black (1333-86-4)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances
U.S. - Pennsylvania - RTK (Right to Know) List

Wood dust, all soft and hard woods
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Silica, cristobalite (14464-46-1)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Potassium oxide (K2O) (12136-45-7)
U.S. - New Jersey - Right to Know Hazardous Substance List

Titanium dioxide (13463-67-7)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Chromite ore (1308-31-2)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List

Manganese compounds
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List

Chromium compounds
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List

Iron salts
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List

California Proposition 65

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

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Quartz (14808-60-7)	X			
Carbon black (1333-86-4)	X			

Silica, crystalline (general form)	X			
Wood dust, all soft and hard woods	X			
Titanium dioxide (13463-67-7)	X			

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 02/24/2020

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

GHS Full Text Phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Carc. 2	Carcinogenicity Category 2
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 4	Flammable liquids Category 4
Flam. Sol. 1	Flammable solids Category 1
Repr. 2	Reproductive toxicity Category 2
Resp. Sens. 1	Respiratory sensitization, Category 1
Resp. Sens. 1B	Respiratory sensitization, Category 1B
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, category 1B
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H228	Flammable solid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled

H335	May cause respiratory irritation
H350	May cause cancer
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)