

# SAFETY DATA SHEET

Date Revised: March 2019



## MicroGrout

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b> MicroGrout	<b>MANUFACTURER:</b> Stone Edge Surfaces
<b>PRODUCT USE:</b> Top coat polished finish	4322 South 80 <sup>th</sup> Street
<b>SUPPLIER:</b> Stone Edge Surfaces (Turley International Resources, LLC)	Mesa, AZ 85212 - USA
	TEL: 844-786-6333 E: info@stoneedgesurfaces.com
<b>EMERGENCY:</b> Contact Local Hospital or Call 911 in US	<b>MEDICAL:</b> Contact Local Hospital or call 911 in US

### SECTION 2 – HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE MIXTURE:		
HAZARD CLASS	CATEGORY	HAZARD STATEMENTS
Acute Toxicity, Oral	4	Harmful if swallowed
Acute Toxicity, Dermal	5	May be harmful in contact with skin
Skin corrosion / irritation	1	Causes severe skin burns and eye damage
Serious eye damage / Eye irritation	1	Causes serious eye damage
Carcinogenicity	N/A	May cause cancer by inhalation
Specific target organ toxicity, single exposure	3	May cause respiratory irritation
Specific target organ toxicity, repeated exposure	1	Causes damage to lungs and respiratory system, through prolonged or repeated exposure by inhalation. Causes damage to kidney and liver through prolonged or repeated exposure.

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

<b>GHS LABEL ELEMENTS:</b>	<b>SIGNAL WORD:</b> DANGER	<b>PICTOGRAM(S):</b>
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#### PRECAUTIONARY STATEMENTS:

HEADING	OSHA Ref. #	Instructions
<b>PREVENTION:</b>	P201	Obtain special instruction before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P281	Use personal protective equipment as required.
	P271	Use only outdoors or in a well-ventilated area.
	P260	Do not breathe dusts or mists.
	P270	Do not eat, drink, and smoke when using this product.
	P280	Wear protective gloves/ protective clothing / eye protection/ face protection.
	P264	Wash exposed area with plenty of water and soap thoroughly after handling.
<b>RESPONSE:</b>	P301 + P330 + P312	IF SWALLOWED: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.
	P331	Do not induce vomiting.
	P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P363	Wash contaminated clothing before reuse.
	P304 + P340 + P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician
	P305+ P351+ P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER or doctor/ physician.
P308+ P313	IF exposed or concerned: Get medical advice/attention.	
<b>STORAGE:</b>	P403 + P235 + P405	Store in a well-ventilated place. Keep cool. Store Locked Up
<b>DISPOSAL:</b>	P501	Dispose of contents/container to hazardous or special waste collection point in accordance with local/regional/national/international regulations

### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS #	EC #	Concentration, %
Vinyl based polymers	9002-89-5	N/A	1-5
Portland Cement	65997-15-1	N/A	30 – 80
Acrylic	9063-87-0	N/A	1-10
Fiber	65997-17-3	N/A	1 – 5
Polycarboxylate	9084-06-4	N/A	1 – 5
Trace Elements:			

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### SECTION 4 – FIRST AID MEASURES

<p><b>EMERGENCY INFORMATION:</b> Stone Edge Surfaces MicroGrout is a white cementitious mixture of cement and polymer. When in contact with moisture in eyes or on skin, or when mixed with water may cause eye irritation. Inhalation may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system or may cause or may aggravate certain lung diseases or conditions. Use exposure controls or personal protection methods described in Section 8.</p>	<p><b>EYES:</b> Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.</p> <p><b>SKIN:</b> Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.</p> <p><b>INHALATION:</b> Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside. Inhalation of large amounts of product require immediate medical attention.</p> <p><b>INGESTION:</b> Do not induce vomiting. If conscious, have victim drink plenty of water and call a physician immediately.</p>
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### SECTION 5 – FIREFIGHTING MEASURES

<b>SUITABLE EXTINGUISHING MEDIA:</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>UNSUITABLE EXTINGUISHING MEDIA:</b>	Do not use water jet and halogenated compounds
<b>SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:</b>	This product is non-flammable and non-combustible. Containers at risk from fire should be cooled with water spray and, if possible, removed from the danger area.
<b>HAZARDUS COMBUSTION PRODUCTS:</b>	None.
<b>SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:</b>	Firefighters should wear full protective gear.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>EMERGENCY PROCEDURES:</b>	Keep unnecessary and unprotected personnel from entering spill area. Do not touch or walk through spilled material.
<b>PROTECTIVE EQUIPMENT:</b>	Use exposure control and personal protection methods as described in Section 8. Ensure adequate ventilation/exhaust extraction. Avoid inhalation of dust and contact with skin and eyes during clean up.
<b>PROPER METHODS OF CONTAINMENT:</b>	Collect dry material using a scoop. Avoid actions that cause dust to become airborne. Do not dry sweep. Avoid inhalation of dust and contact with skin. Vacuum dust with equipment fitted with HEPA filter and place in a designated labeled waste container. If material is wet, scrape up wet material and place in an appropriate container. Allow the material to dry before disposal. For major spills: approach from upwind. Prevent wind dispersal.
<b>CLEANUP:</b>	Seal the container(s), remove from spill area and properly dispose of the waste material in accordance with existing federal, state and local regulations.
<b>ENVIRONMENTAL PRECAUTIONS:</b>	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater, basements or confined areas. Large spills in waterways may be hazardous due to alkalinity of the certain components of the product. Inform the relevant authorities if the product has accessed waterways or other natural areas. See Section 12 for more details.

### SECTION 7 – HANDLING AND STORAGE

<b>PRECAUTIONS FOR SAFE HANDLING:</b>	Do not breathe dust. Use adequate ventilation and/or dust collection methods. Use all available work practices to control dust exposures, such as water sprays. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Avoid breakage of bagged material or spills of bulk material. Wear appropriate respiratory, eye and skin protection. Avoid contact with skin and eyes. Wash hands thoroughly after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Hands and/or face should be washed before eating, drinking and smoking and at the end of the shift. Remove contaminated clothing and protective equipment before entering eating areas. Wash or vacuum clothing when becomes dusty. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure by obtaining and following special instructions before use. Do not handle until all safety precautions have been read and understood.
<b>PRECAUTIONS FOR STORAGE:</b>	Store in original or approved alternative container protected from direct sunlight in a dry, cool and well-ventilated area away from incompatible materials (see below for details) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed. Store bags to avoid accidental tearing, breaking, or bursting. Avoid windblown dust by shielding or covering outdoor stockpiles. Protect from getting wet from atmospheric moisture and other sources.
<b>INCOMPATIBILITIES:</b>	<b>Portland Cement</b> is highly alkaline and will react with acids to produce a violent, heat-generating reaction. Released toxic gases or vapors will depend on the acid involved. Aluminum powder and other alkali and alkaline earth elements will react in wet mortar or concrete, liberating hydrogen gas. Reacts slowly with water forming hydrated compounds, releasing heat and producing a strong alkaline solution until reaction is substantially complete.

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### SECTION 8 – PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

#### OSHA's PERMISSIBLE EXPOSURE LIMITS (PEL)

COMPONENTS	CAS #	OSHA PEL mg/m <sup>3(e)</sup>	Cal/OSHA PEL 8-hour TWA, mg/m <sup>3</sup>	NIOSH REL Up to 10-hour TWA, mg/m <sup>3</sup>	ACGIH 2017 TLV 8hrs TWA, mg/m <sup>3</sup>
Vinyl based polymers	9002-89-5	n/a	n/a	n/a	n/a
Portland Cement:	65997-15-1	(Total Dust) 10 (Respirable fraction) 5	(Total Dust) 10 mg/m <sup>3</sup> (Respirable fraction) 5 mg/m <sup>3</sup>	(Total Dust) 10 mg/m <sup>3</sup> (Respirable fraction) 5 mg/m <sup>3</sup>	1 mg/m <sup>3</sup> (no asbestos & < 1% crystalline silica)

<b>ENGINEERING CONTROLS:</b>	Avoid actions that cause dust to become airborne. Use local exhaust or general dilution ventilation to control exposure within applicable limits.
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#### PERSONAL PROTECTIVE EQUIPMENT (PPE).

<b>RESPIRATORY PROTECTION:</b>	Use local exhaust or general dilution ventilation to control dust levels below applicable exposure limits. Minimize dispersal of dust into air. If local or general ventilation is not adequate to control dust levels below applicable exposure limits or when dust causes irritation or discomfort, use MSHA/NIOSH approved respirators.
<b>EYE PROTECTION:</b>	Wear safety glasses with side shields or goggles to avoid contact with eyes. In extreme dusty environments and unpredictable environments, wear tight fitting unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when handling cement or cement containing products.
<b>SKIN PROTECTION:</b>	Wear impervious abrasion and alkali-resistant gloves, boots, long sleeve shirt, long pants or other protective clothing to prevent skin contact. Promptly remove clothing dusty with Wall Mix or clothing dampened with moisture mixed with Wall mix, and launder before re-use. If contact occurs, wash areas contacted by material with pH neutral soap and water.

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>VISCOSITY</b>	Not Applicable	<b>APPEARANCE:</b>	White fine powder
<b>ODOR &amp; ODOR THRESHOLD:</b>	Polymer/Acrylic	<b>FLASH POINT:</b>	Not Applicable, Not Flammable, Not Combustible
<b>BOILING POINT:</b>	>1000°C	<b>MELTING POINT:</b>	>1000°C
<b>EVAPORATION RATE:</b>	Not Applicable	<b>FLAMMABILITY (SOLID/GAS)</b>	Not Applicable
<b>VAPOR PRESSURE:</b>	Not applicable	<b>pH (IN WATER): (ASTM D 1293-95)</b>	N/A
<b>VAPOR DENSITY:</b>	Not applicable	<b>SOLUBILITY IN WATER:</b>	Slightly (0.1%-1.0%)
<b>RELATIVE DENSITY</b>	Not Applicable	<b>UPPER/LOWER FLAMMABILITY</b>	Not Flammable, Not Explosive
<b>PARTITION COEFFICIENT: n-octano/wtr.</b>	Not Applicable	<b>AUTO IGNITION TEMPERATURE</b>	Not Flammable

### SECTION 10 – STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY:</b>	Product is stable under recommended storage conditions. Keep dry until used.		
<b>CHEMICAL REACTIVITY:</b>	Hazardous Polymerization:	Will not occur.	
	Corrosion to Metals:	N/A	
	Oxidizing Properties:	Not classified as oxidizing.	
<b>CONDITIONS TO AVOID:</b>	Unintentional contact with water or high humidity. Contact with water will result in hydration and produces (caustic) calcium hydroxide. Avoid generation of dust.		
<b>INCOMPATIBILITY:</b>	<b>Portland Cement</b> is highly alkaline and will react with acids to produce a violent, heat-generating reaction. Released toxic gases or vapors will depend on the acid involved. Aluminum powder and other alkali and alkaline earth elements will react in wet mortar or concrete, liberating hydrogen gas. Reacts slowly with water forming hydrated compounds, releasing heat and producing a strong alkaline solution until reaction is substantially complete.		
<b>HAZARDOUS DECOMPOSITION:</b>	Will not spontaneously occur. Adding water results in hydration and produces (caustic) calcium hydroxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced. In fire conditions, depending on temperature, air supply and presence of other materials, decomposition products can include, but are not limited to carbon dioxide, carbon monoxide, silica oxides, sulfur oxides, metal oxides.		

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### SECTION 11 – TOXICOLOGY INFORMATION

**LIKELY ROUTES OF EXPOSURE:** Skin and Eye Contact, Inhalation and Ingestion.

**SYMPTOMS OF EXPOSURE:**

<b>ACUTE TOXICITY</b>	<b>INGESTION:</b>	Harmful if swallowed. Adverse symptoms may include burns to mouth, throat and stomach, abdominal pain, nausea and diarrhea. Although inadvertent ingestion of small quantities of wet concrete or its dry ingredients are not known to be harmful, ingestion of larger quantities can be harmful and requires immediate medical attention
	<b>INHALATION:</b>	May cause respiratory tract irritation and coughing. Exposure to these ingredients in excess of the applicable TLV or PEL (see Section 2) may cause or aggravate other lung conditions. Exposure to Portland cement may cause irritation to the moist mucous membranes of the nose, throat, and upper respiratory system. It may also leave unpleasant deposits in the nose. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	<b>SKIN CORROSION SKIN IRRITATION</b>	Exposure during the handling or mixing of the dry ingredients may cause drying of the skin with consequent mild irritation or more significant effects attributable to aggravation of other conditions. Exposure to wet concrete may cause more severe skin effects including thickening, cracking or fissuring of the skin. Prolonged exposure can cause severe skin damage in the form of (caustic) chemical burns. May cause skin burns. A more severe response may be expected if skin is abraded (scratched or cut). The response may appear in a variety of forms ranging from a mild rash to severe skin ulcers. Persons already sensitized may react to their first contact with the product. Other persons may first experience this effect after years of contact.
	<b>SERIOUS EYE DAMAGE &amp; IRRITATION</b>	Wet or Dry product may cause serious eye damage. Adverse symptoms may include tearing, redness, pain and in the worst case blindness. Dust may cause abrasion of the cornea. wet concrete may cause effects ranging from moderate eye irritation to chemical burns and blindness
	<b>SPECIFIC TARGET ORGAN GENERAL TOXICITY: SINGLE EXPOSURE:</b>	This product contains components that may cause respiratory tract irritation after single exposure.
	<b>SPECIFIC TARGET ORGAN GENERAL TOXICITY: REPEAT EXPOSURE</b>	This product contains components that may cause respiratory tract irritation (asthma, bronchitis, emphysema, and chronic obstructive pulmonary disease), lung disease or lung cancer, kidney disease, tuberculosis, silicosis, autoimmune and kidney diseases after prolonged and repeat exposure to airborne free respirable crystalline silica if product is handled without adequate protection.
	<b>ASPIRATION HAZARD:</b>	Not an aspiration hazard.

<b>CHRONIC TOXICITY</b>	<b>Respiratory and Skin Sensitizer:</b>	This product contains trace amounts of chemical (impurity) that is reported to be a skin sensitizer: present in Portland Cement at level <0.1%											
	<b>Generative Cell Mutagenicity</b>	Risk to humans is not expected from exposure to this product											
	<b>Carcinogenicity:</b>	<p><b>This product contains components reported to be carcinogenic to humans. Group 1).</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>IARC:</td> <td></td> </tr> <tr> <td>NTP:</td> <td></td> </tr> <tr> <td>ACGIH:</td> <td></td> </tr> <tr> <td>NIOSH:</td> <td></td> </tr> </table> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Portland Cement CAS # 65997-15-1</td> <td>ACGIH</td> <td>A4 - Not Classifiable as a Human Carcinogen</td> </tr> </table>		IARC:		NTP:		ACGIH:		NIOSH:		Portland Cement CAS # 65997-15-1	ACGIH
IARC:													
NTP:													
ACGIH:													
NIOSH:													
Portland Cement CAS # 65997-15-1	ACGIH	A4 - Not Classifiable as a Human Carcinogen											

**Reproductive Toxicity:** Risk to humans is not expected from exposure to this product. However, this product contains trace amounts of chemical (impurities) that are reported to cause developmental issues. Chromium (VI) Compounds, CAS #: 18540-29-9 and Methyl alcohol, CAS #: 67-56-1

**General Product Warning:** May cause cancer. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease and/or lung cancer. IARC states that crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

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### SECTIONS 12 – ECOLOGICAL INFORMATION

<b>ECOTOXICITY</b>	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.
<b>PERSISTENCE AND DEGRADABILITY:</b>	No information available for the product, believed to be not readily biodegradable by OECD criteria.
<b>BIOACCUMULATIVE POTENTIAL:</b>	No information is available for the product, but it is believed that no significant accumulation in organisms is expected
<b>MOBILITY IN SOIL:</b>	No information is available for the product, but it is believed that mobility in soil is not expected
<b>OTHER ADVERSE EFFECTS:</b>	No information is available for the product
<b>ECOTOXICITY TEST RESULTS:</b> No information is available for this product mixture. Results for components, where available:	

### SECTION 13 – DISPOSAL CONSIDERATIONS

<b>PRODUCT DISPOSAL:</b>	The generation of waste should be avoided or minimized wherever possible. If product becomes a waste, it does not meet criteria of hazardous waste as defined in 40 CFR 261, Subpart C and D. Do not discharge or dump material into sewer system, the ground or bodies of water. Spill cleanup residues may still be subject to RCRA storage and disposal requirements. Dispose waste in compliance with local, state and federal regulations via licensed waste disposal contractor. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations
<b>CONTAINER DISPOSAL:</b>	Even after emptying, container may retain residues. Containers should be completely emptied and safely stored until appropriately reconditioned or dispose of (contents/container) in accordance with local/regional/national/international regulations.

### SECTION 14 – TRANSPORTATION CONSIDERATIONS

<b>Land transport, U.S. DOT:</b>	Non-Regulated
<b>Sea transport, IMDG</b>	Non-Regulated
<b>Air transport, IATA/ICAO:</b>	Non-Regulated

### SECTION 15 – REGULATORY INFORMATION (Non-Mandatory Section as per OSHA: Not a Complete List)

<b>U.S. REGULATIONS</b>	
<b>OSHA HCS:</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29CFR 1910.1200.
<b>TSCA REGULATIONS:</b>	All components of this product are listed or are exempt from TSCA Inventory requirements under 40 CFR 720.30
<b>EPCRA Section 302 (40 CFR Part 355)</b>	(Emergency Response Planning, Extremely Hazardous Substance): No components are subject to the reporting.
<b>EPCRA Section 304 (40 CFR Part 355)</b>	(Emergency Release Notification Requirements): No components are subject to the reporting.
<b>EPCRA Sections 311 &amp; 312</b>	(Hazardous Chemical Inventory Reporting, Hazard Categories): Acute Health Hazard, Chronic Health Hazard
<b>EPCRA Section 313 40 CFR Part 372)</b>	(Toxic Chemical Release Inventory Reporting): No components or impurities of this product are present above De Minimis level and therefore do not require reporting.
<b>CERCLA Sections 102-103 (40 CFR Part 302)</b>	(Hazardous Substances Release Notification): No components are subject to the reporting. Some of the components contain trace amounts of the following chemicals that require reporting if a criterion of reportable quantity is fulfilled: Fine Mineral Fibers of average diameter $\leq 1\mu\text{m}$ (including Crystalline Silica, CAS #: 14808-60-7 with diameter $\leq 1\mu\text{m}$ )
<b>CLEAN AIR ACT</b>	Ozone Depleting Substances (ODS): This product does not contain and is not manufactured with ozone depleting substances. Hazardous Air Pollutants, OSHA, Section 112(b), Table Z-1 and Table Z-3:

### COMPONENT ANALYSIS - STATE

STATE	INFORMATION
CA	The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): <b>WARNING!</b> This product may contain a chemical known to the state of California to cause cancer, or birth defects, or other reproductive harm.

### SECTION 16 – OTHER INFORMATION

**HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**  
 NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme. E-Protective Equipment: Safety glasses, gloves, Dust Respirator

<b>Health</b>	<b>1</b>
<b>Flammability</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal Protection</b>	<b>E</b>

**OTHER INFORMATION:**  
 SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY TURLEY INTERNATIONAL RESOURCES, LLC., except that the product shall conform to contracted specifications. The information provided herein was believed by TURLEY INTERNATIONAL RESOURCES, LLC. to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for non-delivery of product, failure of product due to manufacturers defect, and whether based on contract, breach of warranty, negligence, or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages or labor of any kind, whether Buyer's claim is based on contract, breach of warranty, negligence, manufacturers defect, product failure, or otherwise.

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