MATERIAL SAFETY DATA SHEET



Lumina

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Product Name: **Aurea Artificial Stone Surfaces**
MSDS Date: Nov.10th, 2023

1. PRODUCT AND COMPANY DESCRIPTION

Product Name **AUREA STONE**
Aureastone is a registered trademark of AUREA INDUSTRIAL COMPANY

Company Identification

Manufacturer: AUREA INDUSTRIAL COMPANY
Address: Lot C1-C6, Lot B5-B6-B7-B8, Zone B of Bac Dong Phu Industrial Park, Tan Phu, Dong Phuoc, Binh Phuoc, Vietnam

2. HAZARDS IDENTIFICATION

Appearance/Odor: Multi-colored engineered surfaces with no odor.

Potential Health Effects: Engineered surfaces are not hazardous as shipped.

Acute Eye: Product in finished form does not present a health hazard via this route of entry. Dusts and flying particles generated during cutting, grinding and forming may cause irritation and injury.

Acute Skin: Dusts generated from this product may cause skin irritation.

Acute Inhalation: Dusts from this product may cause irritation to respiratory tract, nose, throat and lungs.

Acute ingestion: Not considered a potential health hazard via this route of entry. This product may cause gastrointestinal irritation if dusts are swallowed.

Aggravation of Pre-existing Conditions: Not Determined.

3. HAZARDOUS CHEMICAL COMPOSITION

The composition of this material includes amorphous material (glass sand and glass powder are not crystalline types of free oxides (silica)), Polyester resin, Pigments.

Component		CAS#	%Composition	%Composition
Crystalline Silica	Quartz	14808-60-7	≤1	0.1-0.5
Amorphous recycled glass	Glass sand/ Glass powder	65997-17-3	79-90	80-90
Unsaturated Polyester resin	UPR	26123-45-5	8-16	8-16
Pigments	TiO2	1317-80-2	≤1	0-2
	Fe2O3	1332-37-2	≤1	
Additives	KH570	2530-85-0	≤0.4	0.5-0.7
	TBPO	3006-82-4	≤0.3	

Notes: Although no crystalline silica is added in the formula, <1% crystalline silica may be present due to contamination or chemical compound reactions during production.

4. FIRST AID MEASURES

Eye Exposure: Immediately flush eyes with copious amounts of water for a minimum of 15 minutes. Seek immediate medical attention if adverse effect occurs.

Skin Exposure: Wash skin with soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Seek medical attention if adverse effect occurs.

Inhalation: Move person to fresh air. If necessary, use artificial respiration.

Ingestion: If the material is swallowed, seek medical attention or advice.

5. FIRE FIGHTING MEASURES

Engineered surfaces can be combusted only with difficulty. Decomposition products resulting from the polymer and pigments degrading at elevated temperatures include various hydrocarbons, carbon dioxide, carbon monoxide and water. Fumes of metal oxides and mica particles coud also be released.

Extinguishing Media
Water, Dry Chemical, CO2, Foam.

Fire Fighting Instructions
Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Cleanup and Disposal of Spill: Solid slabs can simply be gathered as necessary. If large amounts of dust or wastes are created by the cutting process, then vacuum or sweep up material avoiding dust generation by dampening spilled material with water to avoid airborne dust. Wear sufficient respiratory protection and protective clothing where necessary. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or local Waste Management Authority. Dispose of waste in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

Handling/Storage: Avoid breathing dust. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water. Good industrial hygiene practices should be followed when handling this material. Product is heavy and breakable; handle with care to avoid injury and prevent damage

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS. General room ventilation is satisfactory under anticipated use conditions.

Personal Protective Equipment Respiratory Protection: In case of insufficient ventilation, wear appropriate respiratory equipment in compliance with local regulations.

Eye / Face Protection: During cutting, grinding or sanding operations safety glasses with side shields or goggles should be worn.

Skin Protection: During cutting, grinding or sanding operations use body protection appropriate for task including work gloves if handling sharp or rough edges and steel-toed shoes if lifting product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance: Multi-colored engineered stone
Odor: None
pH: NA
Specific Gravity: 2.2-2.5
Water Solubility: Insoluble
Flash Point: 490º C
Melting Point: NA
Boiling Point: NA
Vapor Pressure: NA
% Volatiles: NA
Viscosity: NA

10. STABILITY AND REACTIVITY

Chemical Stability: Stable
Conditions to Avoid: None
Materials / Chemicals to Be Avoided: This product is incompatible with hydrofluoric acid. Silica will dissolve in hydrofluoric acid and produce the corrosive gas silicon tetrafluoride.
Hazardous Decomposition Products: Upon decomposition, various hydrocarbons, carbon dioxide, carbon monoxide fumes, and water may be released.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

The powder generated in the manufacturing processes contains silica (SiO_2). Prolonged and/or massive inhalation of crystalline silica can cause pulmonary fibrosis and pneumoconiosis and silicosis, as well as a worsening of other pulmonary diseases (bronchitis, emphysema, etc.). The main symptom of silicosis is the loss of pulmonary capacity. People with silicosis have a greater risk of getting lung cancer.

12. ECOLOGICAL INFORMATION

Environmental Fate: Not Determined
Environmental Toxicity: Not Determined

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose in accordance with federal, state and local requirements.

14. TRANSPORTATION INFORMATION

Not classified as dangerous in the meaning of transport regulations

15. REGULATORY INFORMATION

U.S. Federal Regulations
TSCA Inventory Status: In compliance with TSCA Inventory requirements for commercial purposes.

16. OTHER INFORMATION

National Fire Protection Association NFPA(R) and Hazardous Materials Identification System (HMIS) Hazard Ratings:
Health Hazard: 1
Flammability: 0
Reactivity: 0

Key Legend Information: IDLH Immediately Dangerous to Life and Health
N/A – Not Applicable PEL – Permissible Exposure Limit
ND – Not Determined TWA – Time Weighted Average
ACGIH – American Conference of Governmental Industrial Hygienists
STEL – Short Term Exposure Limit NTP – National Toxicology Program
OSHA – Occupational Safety and Health Administration
TLV – Threshold Limit Value
IARC – International Agency for Research on Cancer

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process