

Material Safety Data Sheet

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ArcusStone Products, LLC

180 Harbor Drive, Suite 200
Sausalito, CA. 94965
Phone: 415.339.4060
FAX: 415.339.4065

HMIS

Health	1
Flammability	0
Reactivity	0
Personal Protection	A

SECTION 1. IDENTIFICATION

Product Name:

ArcusStonecoat™

Manufacturer: ArcusStone Products, LLC, 180 Harbor Drive, Suite 200, Sausalito, CA 94965, (415) 339.4060

DOT Classification: Non-hazardous

SECTION 2. COMPONENTS

Hazard Summary: as defined by OSHA Hazard Communication Standard, 29 CFR 1910, 1200

Hazardous Components:	CAS No.	OSHA PEL	ACGIH-TLV	Cal/OSHA
		(mg/m3)	(mg/m3)	PEL (mg/m3)
Portland Cement	65997-15-1	5	5	5
Silica Sand, crystalline	14808-60-7	10 %SiO ₂ +2	0.1 (respirable)	0.1
Limestone (crushed)	01317-65-3	5	5	5
Acrylic polymer	Trade Secret	none	none	none

Trace Elements:

Trace amounts of naturally occurring, potentially harmful chemicals may be detected during chemical analysis.

Examples would include trace amounts of magnesium oxide, potassium and sodium sulfate compounds, and trace metal compounds.

Other Recommended Limits:

NIOSH has recommended that the permissible exposure limit be .05 micrograms respirable free silica per cubic meter of air (0.05 mg / M3) averaged over a work shift of up to 10 hours per day, 40 hours per week.

The NIOSH Criteria for a Recommended Standard Occupational Exposure to Crystalline Silica should be consulted for more detailed information.

SECTION 3. PHYSICAL DATA

Appearance: Off-white powder with coarse aggregate.

Solubility in water: Slight.

Odor: No distinct odor.

ph: (in water) 10-12

Specific Gravity: (H₂O+1) 2.8 to 3.15

The following properties are not applicable to this product:

Vapor pressure, vapor density, evaporation rate, Boiling point and Melting point.

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

Flash Point: None.

Extinguishing Media: Not combustible.

Hazardous Combustion Products: None.

Special Fire Fighting Procedures: None.

Unusual Fire and Explosion Hazards: None.

Auto Ignition Temperature: Not combustible.

SECTION 5. REACTIVITY DATA

Stability: Stable.

Incompatibility : It is compatible with most other materials, however, it contains portland cement which is alkaline. As such, it is incompatible with acids, ammonium salts and aluminum metal. The product also contains silica, which will dissolve in hydrofluoric acid and produce a corrosive gas-silica tetrafluoride.

Conditions to avoid: Damp storage or unintentional contact with water or other liquids.

Hazardous decomposition: Will not occur. Adding water will start hydration and produce calcium hydroxide.

Hazardous Polymerization: Will not occur.

SECTION 6. HEALTH HAZARD ASSESSMENT

Carcinogenic Potential:

Carcinogenicity: NTP: No
OSHA Regulated: Not as a carcinogen
IARC Monographs: Yes
Calif. Prop. 65: Yes

General: Classified as a nuisance dust by OSHA. Exposure can affect the skin, the eyes and mucous membranes. The product contains silica particles that may be broken down to the respirable size range during shipping, handling, or use, and thus may be inhaled. The International Agency for Research on Cancer (IARC) has evaluated in Volume 68, IARC Monographs of the Evaluation of the Carcinogenic Risk to Humans, "Silica and Some Silicates..." (1997) that there is "sufficient evidence" for the carcinogenicity of crystalline silica with respect to humans, in the forms of quartz or cristobalite from occupational sources. The presence of crystalline silica which may result in exposures, requires the following warning pursuant to California Proposition 65: **Warning: This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.**

Routes of Exposure: Inhalation: Yes
Skin: Yes
Ingestion: Yes
Eyes: Yes

Acute Exposure: Can dry the skin and cause alkali burns. Dust can irritate the eyes and upper respiratory system. Toxic effects noted in animals include alveolar damage with pulmonary edema.

Chronic Exposure: Dust can cause inflammation of the lining tissue of the interior of the nose and inflammation of the cornea. Hypersensitive individuals may develop an allergic dermatitis. Excessive inhalation of silica dust may result in respiratory disease, including silicosis, pneumoconiosis, pulmonary fibrosis and possibly cancer.

Signs and Symptoms of Exposure: Symptoms of excessive exposure include shortness of breath and reduced pulmonary function. This inert material gives no potential acute toxic hazard.

Medical Conditions Generally Aggravated by Exposure: Individuals with sensitive skin and with pulmonary and / or respiratory disease, including, but not limited to, asthma and bronchitis, or subject to eye irritation, should be precluded from exposure.

Emergency First Aid Procedures:

Skin: Wash contaminated areas thoroughly with soap and water. If irritation persists or develops contact a physician. Wash clothing and decontaminate footwear before reuse.

Eyes: Rinse / Flood eyes with clean water immediately and repeatedly for at least 15 minutes. Contact physician if irritation persists.

Ingestion: Consult a physician.

For Gross Inhalation: Immediately move subject to fresh air, give artificial respiration as needed. Get prompt medical attention.

SECTION 7. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: Ventilate area. Use dust control methods (vacuum) and place into covered container for disposal or use if not contaminated or wet.

Waste disposal method: Can be treated as a common waste for disposal in accordance with local, state and federal regulations.

SECTION 8. SPECIAL PROTECTION INFORMATION

TLV or Suggested Control Value: No TLV assigned to this mixture. Minimize exposure in accordance with good hygiene practice. Following work, workers should shower with soap and water. Precautions must be observed because burns occur with little warning -- little heat is sensed.

Ventilation: Use only with adequate ventilation. You can provide local exhaust to control airborne dust levels to minimize exposure.

Respiratory Protection : Not normally required if good ventilation is maintained. Use of an appropriate OSHA, MSHA or NIOSH approved respirator in dusty environments is recommended.

Protective Clothing: The use of barrier creams or impervious gloves, long trousers, long-sleeved shirt and appropriate footwear recommended to avoid prolonged skin contact.

Eye Protection: Chemical tight splash goggles to avoid eye contact. (ANSI Z-87, 1 or approved equivalent) is recommended.

Other Protective Equipment: Provide means of rinsing eyes (eyewash station) in case of emergency. Provide source of water for washing skin.

SECTION 9. SPECIAL PRECAUTIONS - None

SECTION 10. OTHER INFORMATION

While the information provided in this material safety data sheet is believed to provide a useful summary of the hazards of our materials as they are commonly used, the sheet cannot anticipate and provide all of the information that might be needed in every situation. In particular, product users who have not had the benefit of proper training in the application of the product may be using the product in a manner that this sheet does not address or may be hazardous. The information herein is given in good faith but no warranty, expressed or implied, is made. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to crystalline silica contained in our products. Customers-users must comply with all applicable health and safety laws, regulations and orders covering crystalline silica.

Abbreviations:

ACGIH

American Conference of Governmental Industrial Hygienists

ANSI

American National Standards Institute

Cal/OSHA

California Division of Occupational Safety and Health Administration

CAS

Chemical Abstract service

DOT

Department of Transportation

IARC

International Agency for Research on Cancer

m³

Cubic Meter

mg

Milligram

MSDS

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NIOSH

National Institute of Occupational Safety and Health

NTP

National Toxicology Program

OSHA

Occupational Safety and Health Administration

PEL

Permissible Exposure Limit

SiO₂

Crystalline Silica (quartz)

TLV

Threshold Limit Values