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Version: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Arisfor ToughDeck
Recommended Uses	Concrete damp-proofing coating
Restrictions on Use	No data
Supplier of the Safety Data Sheet including Address	Arisfor, LLC 100 Forta Drive Grove City, PA 16127
Company Number	Phone: 724-264-1050 Fax: 724-458-8331
Emergency Phone:	724-264-1050

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards Harmful if swallowed. Causes severe skin burns and eye damage. Harmful if inhaled. Suspected of causing cancer by inhalation of respirable crystalline silica. Causes damage to Lungs through prolonged or repeated exposure by inhalation.

Target Organs Lungs

GHS Classification Acute Toxicity Oral – Category 4
Carcinogenicity – Category 2
Eye damage/eye irritation – Category 1
Skin sensitization – Category 1
Skin irritation – Category 1
Specific target organ toxicity – repeated exposure – Category 2, Respiratory System

Label Elements (including precautionary statements)

Pictograms:



Signal word – Danger

Hazard Statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary Statements – Prevention

- P260** Do not breathe dust/fume/gas/mist/vapors/spray.
- P264** Wash hands and skin thoroughly after handling.
- P270** Do not eat, drink or smoke when using this product.
- P271** Use only outdoors or in a well-ventilated area.
- P272** Contaminated work clothing should not be allowed out of the workplace.
- P280** Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements – Response

- P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P301+P330+P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P310** Immediately call a POISON CENTER/doctor.
- P303+P313+P310** IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with plenty of water or shower. Immediately call a POISON CENTER/doctor.
- P363** Wash contaminated clothing before reuse.
- P333+P313** If skin irritation or rash occurs: Get medical advice or attention.
- P304+P340+P312** IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- P308+P313** If exposed or concerned: Get medical advice/attention.
- P314** Repeated Exposure: Get medical advice/attention if you feel unwell.

Precautionary Statements – Storage

- P403+P233** Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements – Disposal

- P501** Dispose of contents/container in accordance with local/regional/national regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS#	% by Weight
Cement	65997-15-1	20-30%
Crystalline Silica in the form of Quartz	14808-60-7	60-70%
Calcium Magnesium Hydroxide	39445-23-3	1-5%
Additives	Proprietary	≤0.2%
Various Pigments Including: Titanium Dioxide Iron Oxide Blends	13463-67-7 Various (Non-Hazardous)	0.1-5%

Ingredients not listed on this safety data sheet are considered to be non-hazardous according to OSHA 1910.1200 or are not present above their cutoff levels. Where a range is displayed, the exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Inhalation	If breathed in, move person into fresh air and keep comfortable for breathing. Consult a physician.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Skin Contact	Remove contaminated clothing. Wash off with soap and plenty of water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Material is Non-combustible. Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide for surrounding fire.
Specific Hazards Arising from the Chemical	Avoid breathing dust. Wet cement is caustic.
Hazardous Combustion Products	Calcium Oxide, Sulfur Dioxide
Protective Equipment and Precautions for Firefighters	Wear self-contained breathing apparatus and full protective gear for firefighting.
Further Information	See Section 7 for safe handling and storage.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and Material for Containment and Cleaning Up	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for Safe Handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
Conditions for Safe Storage, including any incompatibilities	General information: Keep bagged material dry until used. Stack bagged material in a secure manner to prevent falling. Bagged material is heavy and poses risks such as sprains and strains to the back, arms, shoulders and legs during lifting and mixing. Handle with care and use appropriate control measures. Incompatibilities: Water will cause product to solidify.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component Exposure Limits Cement CAS#: 65997-15-1 OSHA 15 mg/m³ T (Total) / 5 mg/m³ R (Respirable) Silica, Quartz CAS#: 14808-60-7 OSHA TWA 10 mg/m³, ACGIH TWA 0.025 mg/m³ Calcium Magnesium Hydroxide Hydrated CAS#: 39445-23-3 OSHA TLV 5 mg/m³.

Appropriate Engineering Controls **Local Ventilation:** Recommended
General Ventilation: Recommended

Individual Protection Measures, such as Personal Protective Equipment **Eye/Face Protection:** Use proper protection – Safety Glasses as a minimum.
Skin and Body Protection: Wash at mealtime and end of shift. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.). Use chemical protective gloves as a minimum and wash skin promptly upon any skin contact.

Respiratory Protection: Use respiratory protection unless adequate local exhaust ventilation is provided, or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands before & after breaks and work day.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State

Appearance	Solid Powder
Color	Various Colors, Including White & Gray
Odor	Mild
Odor Threshold	No data

Properties

Vapor Pressure	Not available
Vapor Density	Not available
Relative Density	Not available
pH (in water)	12-13
Melting/Freezing Point	Not relevant
Solubility	Not available
Evaporation Rate	Not available
Flash Point	Not relevant
Flammability Limits	Not available
Flammability (Solid, Gas)	Not relevant

Autoignition Temperature	Not available
Initial Boiling Point/ Boiling Range	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Specific Gravity	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable.
Possibility of Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to Avoid	Keep dry until use. Avoid contact with incompatible materials.
Incompatible Materials	Wet cement is alkaline and is incompatible with acids, ammonium salts and aluminum metal. Cement dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Cement reacts with water to form silicates and calcium hydroxide. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.
Hazardous Decomposition Products	None known.

11. TOXICOLOGICAL INFORMATION

Likely Routs of Exposure	Inhalation, Skin contact, Eye contact, Ingestion.
Symptoms of Exposure	Inhalation: May cause respiratory irritation. Skin: Causes severe skin burns. May cause allergic skin reaction. Eyes: Causes serious eye damage. Ingestion: Irritation of the digestive system may occur if large amounts are swallowed.
Numerical Measures of Toxicity	Acute Toxicity Value: Silica-LD50 oral rat 22,500 mg/kg.
Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure	<p>Dermatitis: Irritant Dermatitis is caused by physical properties of cement including alkalinity and abrasion. Allergic Dermatitis is caused by sensitization to hexavalent chromium (Chromate) present in cement. The reaction can range from a mild rash to severe skin ulcers. Persons already sensitized may react to the first contact with cement. Others may develop allergic dermatitis after years of repeated contact with cement.</p> <p>Carcinogenicity: IARC: 1-Group 1: Carcinogenic to humans (Quartz) ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: Carcinogenic to humans (Quartz) OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</p> <p>Specific target organ toxicity: Single exposure – No data available. Specific target organ toxicity: Repeated exposure – Category 2, Respiratory</p>

System.

Silicosis: Silicosis is caused by the inhalation and retention of respirable crystalline silica dust.

Simple Chronic Silicosis - results from long-term exposure (more than 20 years) to low amounts of respirable crystalline silica. Nodules of chronic inflammation and scarring provoked by the respirable crystalline silica form in the lungs and chest lymph nodes. This disease may feature breathlessness and may resemble chronic obstructive pulmonary disease (COPD).

Accelerated Silicosis – occurs after exposure to larger amounts of respirable crystalline silica over a shorter period of time (5-15 years). Inflammation, scarring, and symptoms progress faster in accelerated silicosis than in simple silicosis.

Acute Silicosis – results from short-term exposure to very large amounts of respirable crystalline silica. The lungs become very inflamed and may fill with fluid, causing severe shortness of breath and low blood oxygen levels.

Pre-Existing Conditions: Cement dust is irritating to the nose, throat and respiratory tract causing coughing and sneezing. Pre-existing upper respiratory and lung diseases including asthma and bronchitis may be aggravated.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not expected to be hazardous to the environment.
Persistence and Degradability	No data available.
Bioaccumulation	No data available.
Mobility	No data available.
Other Adverse Effects	No data available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	This product is not expected to be a hazardous waste under RCRA. Place spilled material into a container. Scrape wet material and place in container. Allow material to dry or solidify before disposal. Dispose of according to Federal, State, Provincial and Local regulations..
Contaminated Packaging	Dispose of as unused material.

14. TRANSPORT INFORMATION

DOT	Not a dangerous good.
IATA	Not a dangerous good.
IMDG	Not a dangerous good.
Marine Pollutant	Not a marine pollutant.

15. REGULATORY INFORMATION

International Inventories

TSCA All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

U.S. Federal Regulations

SARA 302 None known.

SARA 311/312 Hazard Categories Acute health hazard, Chronic health hazard.

SARA 313 Hazard Categories None known.

CWA (Clean Water Act) None known.

Supplemental State Compliance Information

California Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.
Quartz CAS#:14808-60-7
Hexavalent Chromium Compounds.

New Jersey Right To Know	CAS Number	Component Name
	14808-60-7	Quartz

Pennsylvania Right To Know	CAS Number	Component Name
	14808-60-7	Quartz

Massachusetts Right To Know	CAS Number	Component Name
	14808-60-7	Quartz

U.S. EPA Label Information: No data.

Canada

WHMIS Classification Class D2B (Toxic) & Class E (Corrosive)

Symbol Stylized T, Corrosive



16. OTHER INFORMATION

HMIS Classification

Health Hazard 2

Flammability 0

Physical Hazard 0

NFPA Rating

Health Hazard 2

Fire 0

Reactivity Hazard 0