

# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	<b>Algae Resistant Shingles / Hip &amp; Ridge / Starter Shingles</b>
<b>Other means of identification</b>	
<b>Product Identifier</b>	10" MountainRidge® AR, Belmont® (AR only), Belmont® IR (AR only), Carriage House® (AR only), Cedar Crest® (AR only), Cedar Crest® IR (AR only), Grand Manor® (AR only), Highland Slate® (AR only), Landmark Solaris® AR, Landmark® AR, Landmark® AR Landmark® IR (AR only), Landmark® AR Max Def, Landmark® Premium AR, Landmark® Pro AR, Landmark® TL AR, Landmark® AR Max Def, Mountain Ridge® Solaris® AR 10", Patriot AR, Presidential Shake® AR, Presidential Shake® IR (AR only), Presidential Shake® TL AR, Shadow Ridge® AR, Shangle Ridge® (AR only), XT™25 (AR only)
<b>Recommended use</b>	Algae resistant asphalt roofing shingles.
<b>Recommended restrictions</b>	Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Company name</b>	CertainTeed Corporation
<b>Address</b>	20 Moores Road Malvern, PA 19355 United States of America
<b>Telephone</b>	1-800-233-8990
<b>Website</b>	www.certainteed.com
<b>Emergency telephone</b>	3E Global Incident Response Hotline +1 760 476 3962 +1 866 519 4752 (Toll Free) Access Code: 336250

## 2. Hazard(s) identification

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.
<b>OSHA defined hazards</b>	Not classified.
<b>Label elements</b>	
<b>Hazard symbol</b>	None.
<b>Signal word</b>	None.
<b>Hazard statement</b>	The mixture does not meet the criteria for classification.
<b>Precautionary statement</b>	
<b>Prevention</b>	Observe good industrial hygiene practices.
<b>Response</b>	Wash hands after handling.
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of waste and residues in accordance with local authority requirements.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	None.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	CAS number	%
Asphalt	8052-42-4	10 - 30
Quartz	14808-60-7	10 - 30

Chemical name	CAS number	%
Kaolin	1332-58-7	1 - 5
Talc	14807-96-6	1 - 5
Diiron trioxide / Iron (III) oxide	1309-37-1	0.1 - 1
Iron oxide	1332-37-2	0.1 - 1
Titanium dioxide	13463-67-7	0.1 - 1

**Composition comments** The exact concentrations of the above listed chemicals are being withheld as a trade secret. All concentrations are in percent by weight.

This product contains respirable crystalline silica as an impurity. Independent testing of this product suggests that under most conditions of use, this product will not result in exposure to respirable crystalline silica that exceeds OSHA's Action Level, (AL) or Permissible Exposure Limit (PEL). However, actual concentrations of respirable silica may vary based on the conditions of use. Specific exposures can only be determined by workplace industrial hygiene testing.  
<https://www.certainteed.com/drywall/osha-crystalline-silica-techupdate-certainteed-gypsum-board-products>

#### 4. First-aid measures

**Inhalation**

In case of inhalation of dust: Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact**

Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye contact**

Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists. Rinse mouth. Get medical attention if symptoms occur.

**Ingestion**

Dusts may irritate the respiratory tract, skin and eyes.

**Most important symptoms/effects, acute and delayed**

Treat symptomatically.

**Indication of immediate medical attention and special treatment needed**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**General information**

#### 5. Fire-fighting measures

**Suitable extinguishing media**

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

**Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical**

During fire, hazardous combustion products are released that may include: Carbon oxides. Silicon oxide fumes. Fumes of metal oxides.

**Special protective equipment and precautions for firefighters**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions**

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

**Specific methods**

Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**

The product is not flammable. No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**

Stop the flow of material, if this is without risk. Pick up and arrange disposal without creating dust. Collect dust using a vacuum cleaner equipped with HEPA filter. Recover and recycle, if practical. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

**Precautions for safe handling**

Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Keep away from heat, spark, open flames and other sources of ignition. Store in a well-ventilated place. Store away from foodstuffs. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Components	Type	Value
Quartz (CAS 14808-60-7)	TWA	0.05 mg/m <sup>3</sup>

#### US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Diiron trioxide / Iron (III) oxide (CAS 1309-37-1)	PEL	10 mg/m <sup>3</sup>	Fume.
Kaolin (CAS 1332-58-7)	PEL	5 mg/m <sup>3</sup>	Respirable fraction.
		15 mg/m <sup>3</sup>	Total dust.
Titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m <sup>3</sup>	Total dust.

#### US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000)

Components	Type	Value	Form
Diiron trioxide / Iron (III) oxide (CAS 1309-37-1)	TWA	5 mg/m <sup>3</sup>	Respirable fraction.
		15 mg/m <sup>3</sup>	Total dust.
		50 mppcf	Total dust.
Kaolin (CAS 1332-58-7)	TWA	15 mppcf	Respirable fraction.
		5 mg/m <sup>3</sup>	Respirable fraction.
		15 mg/m <sup>3</sup>	Total dust.
Quartz (CAS 14808-60-7)	TWA	50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
		0.1 mg/m <sup>3</sup>	Respirable.
Talc (CAS 14807-96-6)	TWA	2.4 mppcf	Respirable.
		0.1 mg/m <sup>3</sup>	Respirable.
		20 mppcf	
		2.4 mppcf	Respirable.

#### US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value	Form
Asphalt (CAS 8052-42-4)	TWA	0.5 mg/m <sup>3</sup>	Inhalable fume.
Diiron trioxide / Iron (III) oxide (CAS 1309-37-1)	TWA	5 mg/m <sup>3</sup>	Respirable fraction.
Kaolin (CAS 1332-58-7)	TWA	2 mg/m <sup>3</sup>	Respirable fraction.
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m <sup>3</sup>	Respirable fraction.
Talc (CAS 14807-96-6)	TWA	2 mg/m <sup>3</sup>	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	2.5 mg/m <sup>3</sup>	Respirable finescale particles
		0.2 mg/m <sup>3</sup>	Respirable nanoscale particles

#### NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Components	Type	Value
Diiron trioxide / Iron (III) oxide (CAS 1309-37-1)	IDLH	2500 mg/m <sup>3</sup>
Quartz (CAS 14808-60-7)	IDLH	50 mg/m <sup>3</sup>
Talc (CAS 14807-96-6)	IDLH	1000 mg/m <sup>3</sup>
Titanium dioxide (CAS 13463-67-7)	IDLH	5000 mg/m <sup>3</sup>

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value	Form
Asphalt (CAS 8052-42-4)	Ceiling	5 mg/m3	Fume.
Diiron trioxide / Iron (III) oxide (CAS 1309-37-1)	TWA	5 mg/m3	Dust and fume.
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Quartz (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.

**Biological limit values****ACGIH Biological Exposure Indices (BEI)**

Components	Value	Determinant	Specimen	Sampling Time
Asphalt (CAS 8052-42-4)	2.5 µg/l	1-Hydroxypyrene, with hydrolysis (1-HP)	Urine	*

\* - For sampling details, please see the source document.

**Appropriate engineering controls**

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Unvented, tight fitting goggles should be worn in dusty areas.

**Skin protection****Hand protection**

Wear suitable protective gloves to prevent cuts and abrasions. Suitable gloves can be recommended by the glove supplier.

**Other**

Normal work clothing (long sleeved shirts and long pants) is recommended.

**Respiratory protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Follow OSHA respirator regulations (29CFR 1910.134) and use NIOSH/MSHA approved respirators. Appropriate respirator selection should be made by a qualified professional.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties****Appearance****Physical state**

Solid.

**Form**

Flexible shingle with granular surface.

**Color**

Dark.

**Odor**

Slight petroleum odor.

**Odor threshold**

Not applicable.

**pH**

Not applicable.

**Melting point/freezing point**

Not applicable.

**Initial boiling point and boiling range**

Not applicable.

**Flash point**

860 °F (460 °C)

**Evaporation rate**

Not applicable.

**Flammability (solid, gas)**

Not flammable.

**Upper/lower flammability or explosive limits****Explosive limit - lower (%)**

Not applicable.

<b>Explosive limit - upper (%)</b>	Not applicable.
<b>Vapor pressure</b>	Not applicable.
<b>Vapor density</b>	Not applicable.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Insoluble in water.
<b>Partition coefficient (n-octanol/water)</b>	Not applicable, product is a mixture.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not applicable.
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Keep away from heat, spark, open flames and other sources of ignition. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents. Strong acids.
<b>Hazardous decomposition products</b>	Decomposition is not expected under normal conditions of use and storage. In the event of fire: See Section 5.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Dust may irritate respiratory system.
<b>Skin contact</b>	Dust or powder may irritate the skin.
<b>Eye contact</b>	Dust may irritate the eyes.
<b>Ingestion</b>	May cause discomfort if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics**      Dusts may irritate the respiratory tract, skin and eyes.

### Information on toxicological effects

**Acute toxicity**      Not expected to be acutely toxic.

Components	Species	Test Results
Kaolin (CAS 1332-58-7)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rat	> 5000 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 2 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
Talc (CAS 14807-96-6)		
<b><u>Acute</u></b>		
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg

Components	Species	Test Results
Titanium dioxide (CAS 13463-67-7)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
<b>Skin corrosion/irritation</b>	May cause irritation through mechanical abrasion.	
<b>Serious eye damage/eye irritation</b>	Airborne dust may cause mechanical eye irritation.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Carcinogenicity</b>	Not classifiable as to carcinogenicity to humans. Due to the form of the product, exposure to the potentially carcinogenic components is not expected.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Asphalt (CAS 8052-42-4)		2B Possibly carcinogenic to humans.
Diiron trioxide / Iron (III) oxide (CAS 1309-37-1)		3 Not classifiable as to carcinogenicity to humans.
Quartz (CAS 14808-60-7)		1 Carcinogenic to humans.
Titanium dioxide (CAS 13463-67-7)		2B Possibly carcinogenic to humans.
<b>NTP Report on Carcinogens</b>		
Asphalt (CAS 8052-42-4)		Known To Be Human Carcinogen.
Quartz (CAS 14808-60-7)		Known To Be Human Carcinogen.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)</b>		
Quartz (CAS 14808-60-7)		Cancer
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	Not classified.	
<b>Specific target organ toxicity - repeated exposure</b>	Due to the physical form of the product, the ingredients are not expected to present a hazard by inhalation.	
<b>Aspiration hazard</b>	Not an aspiration hazard.	

## 12. Ecological information

**Ecotoxicity** The product is 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.

Components	Species	Test Results
Kaolin (CAS 1332-58-7)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	LC50	Daphnia magna
		> 1.1 g/l, 48 Hours
Titanium dioxide (CAS 13463-67-7)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50	Daphnia magna
		> 100 mg/l, 48 Hours
Fish	LL50	Oryzias latipes
		> 100 mg/l, 96 Hours
<b>Persistence and degradability</b>	The product contains inorganic compounds which are not biodegradable.	
<b>Bioaccumulative potential</b>	No data available on bioaccumulation.	
<b>Mobility in soil</b>	The product is insoluble in water. Not expected to be mobile in soil.	
<b>Other adverse effects</b>	No data available for this product.	

## 13. Disposal considerations

**Disposal instructions** Recover and reclaim or recycle, if practical. Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## 15. Regulatory information

**US federal regulations** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Quartz (CAS 14808-60-7)

Cancer  
lung effects  
immune system effects  
kidney effects

### Toxic Substances Control Act (TSCA)

All components of the mixture on the TSCA 8(b) inventory are designated "active".

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** No

#### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Asphalt (CAS 8052-42-4)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

### US state regulations

#### US. Massachusetts RTK - Substance List

Asphalt (CAS 8052-42-4)

Diiron trioxide / Iron (III) oxide (CAS 1309-37-1)

Kaolin (CAS 1332-58-7)

Quartz (CAS 14808-60-7)

Talc (CAS 14807-96-6)

Titanium dioxide (CAS 13463-67-7)

## US. New Jersey Worker and Community Right-to-Know Act

Asphalt (CAS 8052-42-4)  
Diiron trioxide / Iron (III) oxide (CAS 1309-37-1)  
Kaolin (CAS 1332-58-7)  
Quartz (CAS 14808-60-7)  
Talc (CAS 14807-96-6)  
Titanium dioxide (CAS 13463-67-7)

## US. Pennsylvania Worker and Community Right-to-Know Law

Asphalt (CAS 8052-42-4)  
Diiron trioxide / Iron (III) oxide (CAS 1309-37-1)  
Kaolin (CAS 1332-58-7)  
Quartz (CAS 14808-60-7)  
Talc (CAS 14807-96-6)  
Titanium dioxide (CAS 13463-67-7)

## US. Rhode Island RTK

Asphalt (CAS 8052-42-4)  
Diiron trioxide / Iron (III) oxide (CAS 1309-37-1)  
Kaolin (CAS 1332-58-7)  
Quartz (CAS 14808-60-7)  
Talc (CAS 14807-96-6)  
Titanium dioxide (CAS 13463-67-7)

## California Proposition 65



**WARNING:** This product can expose you to chemicals including Asphalt, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Asphalt (CAS 8052-42-4)	Listed: January 1, 1990
Quartz (CAS 14808-60-7)	Listed: October 1, 1988
Titanium dioxide (CAS 13463-67-7)	Listed: September 2, 2011

### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Asphalt (CAS 8052-42-4)  
Quartz (CAS 14808-60-7)  
Talc (CAS 14807-96-6)  
Titanium dioxide (CAS 13463-67-7)

## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date	08-November-2023
Revision date	-
Version #	01



**Further information**

E - Safety Glasses, Gloves, Dust Respirator

**HMIS® ratings**

Health: 0

Flammability: 0

Physical hazard: 0

Personal protection: E

**Disclaimer**

CertainTeed Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.