

**Safety Data Sheet**  
Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: February 27, 2018

Revision: February 27, 2018

**1 Identification**

· **Product identifier**

· **Trade name: Algae Resistant Shingles / Hip & Ridge / Starter Shingles**

· **Other product identifiers:**

10" MountainRidge® AR  
Arcadia Shake® 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)  
Highland Slate® IR (AR only)  
Landmark Solaris® AR  
Landmark Solaris® Gold (AR only)  
Landmark Solaris® Gold IR (AR only)  
Landmark Solaris® Platinum (AR only)  
Landmark® AR  
Landmark® IR (AR only)  
Landmark® Premium AR  
Landmark® Pro AR  
Landmark® TL AR  
Patriot AR  
Presidential Shake® AR  
Presidential Shake® IR (AR only)  
Presidential Shake® TL AR  
Presidential Solaris® Gold (AR only)  
Shadow Ridge® AR  
Shangle Ridge® (AR only)  
Solaris® Accessory (AR only)  
Solaris® Accessory IR (AR only)  
Solaris® Hip & Ridge Accessory (AR only)  
XT™ 25 (AR only)  
XT™ 30 IR (AR only)

· **Recommended use and restriction on use**

· **Recommended use:** Algae Resistant Asphalt Roofing Shingles  
· **Restrictions on use:** See Sections 8 and 10 for further information.

· **Details of the supplier of the Safety Data Sheet**

· **Manufacturer/Supplier:**

CertainTeed Corporation  
20 Moores Road  
Malvern, PA 19355  
610-893-6000

· **Emergency telephone number:**

CHEMTREC  
1-800-424-9300 (US/Canada)  
+01 703-527-3887 (International)

**2 Hazard(s) identification**

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· **Classification of the substance or mixture**

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

· **Label elements**

- **GHS label elements** Not regulated.
- **Hazard pictograms:** Not regulated.
- **Signal word:** Not regulated.
- **Hazard statements:** Not regulated.
- **Precautionary statements:** Not regulated.

- **Other hazards** There are no other hazards not otherwise classified that have been identified.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

8052-42-4	Asphalt	☠ Carc. 2, H351	10-20%
14808-60-7	Quartz (SiO <sub>2</sub> )	☠ Carc. 1A, H350	10-20%
14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )		2.5-5%
1332-58-7	Kaolin		1-2.5%
13463-67-7	titanium dioxide	☠ Carc. 2, H351	0.1-1%
1309-37-1	diiron trioxide / iron (III) oxide		0.1-1%
1332-37-2	Iron oxide		0.1-1%

· **Additional information:**

Non-classification as a carcinogen is based on non-respirable form of product.  
 For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.  
 For the wording of the listed Hazard Statements, refer to section 16.

### 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

Respiration of particulates is unlikely during normal usage.  
 Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Brush off loose particles from skin.  
 Wash with soap and water.  
 If skin irritation is experienced, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn, if possible.  
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.  
 Do not induce vomiting; immediately call for medical help.

· **Most important symptoms and effects, both acute and delayed:**

Slight irritant effect on eyes.

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Nausea in case of ingestion.  
Gastric or intestinal disorders when ingested.

- **Danger:**

Adverse health effects are not reasonably expected from normal use of product. Hazards listed below may occur from handling of old or improperly stored materials.

May cause cancer by inhalation.

- **Indication of any immediate medical attention and special treatment needed:**

No relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

The product is not flammable.

Use fire fighting measures that suit the environment.

- **For safety reasons unsuitable extinguishing agents:** None.

- **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

- **Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

## 6 Accidental release measures

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

Ensure adequate ventilation.

Avoid formation of dust.

Do not breathe dust.

- **Environmental precautions** Avoid release to the environment.

- **Methods and material for containment and cleaning up**

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- **Handling**

- **Precautions for safe handling:**

Use only in well ventilated areas.

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

- **Information about protection against explosions and fires:**

Keep respiratory protective device available.

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- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**  
Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Specific end use(s)** No relevant information available.

## 8 Exposure controls/personal protection

### · Control parameters

#### · Components with limit values that require monitoring at the workplace:

##### 8052-42-4 Asphalt

REL (USA)	Ceiling limit value: 5* mg/m <sup>3</sup> *15-min; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.5* mg/m <sup>3</sup> *inh. fraction; as benzene-soluble aerosol; BEIp
EL (Canada)	Long-term value: 0.5 mg/m <sup>3</sup> inhalable, IARC 2B
EV (Canada)	Long-term value: 0.5 mg/m <sup>3</sup> fume, as benzene-soluble aerosol, inhalable
LMPE (Mexico)	Long-term value: 0.5* mg/m <sup>3</sup> A4, IBEp;*fracción inhalable

##### 14808-60-7 Quartz (SiO<sub>2</sub>)

REL (USA)	see Quartz listing
REL (USA)	Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction
EL (Canada)	Long-term value: 0.025 mg/m <sup>3</sup> ACGIH A2; IARC 1
EV (Canada)	Long-term value: 0.10* mg/m <sup>3</sup> *respirable fraction
LMPE (Mexico)	Long-term value: 0.025* mg/m <sup>3</sup> A2, *fracción respirable

##### 14807-96-6 Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

REL (USA)	Long-term value: 20 mppcf ppm (containing <1% Quartz)
REL (USA)	Long-term value: 2* mg/m <sup>3</sup> *respirable dust; and <1% Quartz
TLV (USA)	Long-term value: 2* mg/m <sup>3</sup> *as respirable fraction; E
EL (Canada)	Long-term value: 2 *0.1 f/cc mg/m <sup>3</sup> resp. *if contains asbestos : ACGIH A1, IARC 1
EV (Canada)	Long-term value: 2* mg/m <sup>3</sup> , 2 f/cc ppm *respirable

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LMPE (Mexico) Long-term value: 2\* mg/m<sup>3</sup>  
A4, \*fracción respirable

**1332-58-7 Kaolin**

PEL (USA) Long-term value: 15\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction

REL (USA) Long-term value: 10\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction

TLV (USA) Long-term value: 2\* mg/m<sup>3</sup>  
E; as respirable fraction

EL (Canada) Long-term value: 2 mg/m<sup>3</sup>

EV (Canada) Long-term value: 2(D) mg/m<sup>3</sup>  
respirable

LMPE (Mexico) Long-term value: 2\* mg/m<sup>3</sup>  
A4, \*fracción respirable

**13463-67-7 titanium dioxide**

PEL (USA) Long-term value: 15\* mg/m<sup>3</sup>  
\*total dust

REL (USA) See Pocket Guide App. A

TLV (USA) Long-term value: 10 mg/m<sup>3</sup>  
withdrawn from NIC

EL (Canada) Long-term value: 10\* 3\*\* mg/m<sup>3</sup>  
\*total dust; \*\*respirable fraction; IARC 2B

EV (Canada) Long-term value: 10 mg/m<sup>3</sup>  
total dust

LMPE (Mexico) Long-term value: 10 mg/m<sup>3</sup>  
A4

**1309-37-1 diiron trioxide / iron (III) oxide**

PEL (USA) Long-term value: 10\* 15\*\* 5\*\*\* mg/m<sup>3</sup>  
\*Fume; Rouge: \*\*Total dust, \*\*\*respirable

REL (USA) Long-term value: 5 mg/m<sup>3</sup>  
Dust & fume, as Fe

TLV (USA) Long-term value: 5\* mg/m<sup>3</sup>  
\*as respirable fraction

EL (Canada) Short-term value: 10\*\* mg/m<sup>3</sup>  
Long-term value: 5\* 10\*\*\* 3\*\*\*\* mg/m<sup>3</sup>  
\*dust & fume \*\*fume; Rouge: \*\*\*total dust\*\*\*\*resp.

EV (Canada) Long-term value: 5\* 10\*\* mg/m<sup>3</sup>  
\*respirable, including Rouge; \*\*total dust

LMPE (Mexico) Long-term value: 5\* mg/m<sup>3</sup>  
A4, \*fracción respirable

**1332-37-2 Iron oxide**

REL (USA) Long-term value: 1 mg/m<sup>3</sup>  
as Fe

TLV (USA) Long-term value: 1 mg/m<sup>3</sup>  
as Fe

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LMPE (Mexico)	Long-term value: 1 mg/m <sup>3</sup> como Fe
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**· Ingredients with biological limit values:**

**8052-42-4 Asphalt**

BEI (USA)	- Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)
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**· Exposure controls**

**· General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Store protective clothing separately.

**· Engineering controls:** No relevant information available.

**· Breathing equipment:**

Not required under normal conditions of use.  
Use respiratory protection when grinding or cutting material.  
For large spills, respiratory protection may be advisable.  
Particulate mask should filter at least 99% of airborne particles.

**· Protection of hands:**

Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules.

**· Eye protection:** Follow OSHA or EU guidelines concerning the use of protective eyewear.

**· Body protection:** Wear protective clothing to protect against mechanical hazards.

**· Limitation and supervision of exposure into the environment**

Avoid release to the environment.

**· Risk management measures** See Section 7 for additional information.

## 9 Physical and chemical properties

**· Information on basic physical and chemical properties**

**· Appearance:**

**Form:** Flexible shingle with granular surface

**Color:** Dark

**· Odor:** Light petroleum

**· Odor threshold:** Not determined.

**· pH-value:** Not applicable.

**· Melting point/Melting range:** Not determined.

**· Boiling point/Boiling range:** Not determined.

**· Flash point:** 460 °C (860 °F)

**· Flammability (solid, gaseous):** Not determined.

**· Auto-ignition temperature:** Not determined.

**· Decomposition temperature:** Not determined.

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· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Oxidizing properties:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density:</b>	Not determined.
· <b>Vapor density:</b>	Not applicable.
· <b>Evaporation rate:</b>	Not applicable.
· <b>Solubility in / Miscibility with Water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Other information</b>	No relevant information available.

## 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**  
Reacts with strong oxidizing agents.  
Reacts with strong acids.
- **Conditions to avoid** Avoid acids.
- **Incompatible materials**  
Strong acids  
Oxidizing agents
- **Hazardous decomposition products** Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Based on available data, the classification criteria are not met.

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· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer):**

8052-42-4	Asphalt	2B
14808-60-7	Quartz (SiO <sub>2</sub> )	1
13463-67-7	titanium dioxide	2B

· **NTP (National Toxicology Program):**

14808-60-7	Quartz (SiO <sub>2</sub> )	K
8007-18-9	C.I. Pigment Yellow 53	K

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

· **Probable route(s) of exposure:**

Ingestion.  
Eye contact.  
Skin contact.

· **Acute effects (acute toxicity, irritation and corrosivity):** From product as supplied: None.

· **Repeated dose toxicity:**

Repeated or long-term inhalation of product dusts may cause pulmonary disease.

· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

· **Carcinogenicity:**

Contains known or suspect carcinogens when inhaled. Product is in non-inhalable form and is nonclassifiable as a carcinogen.

· **Reproductive toxicity:** Based on available data, the classification criteria are not met.

· **STOT-single exposure:** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

· **Aspiration hazard:** Based on available data, the classification criteria are not met.

## 12 Ecological information

· **Toxicity**

· **Aquatic toxicity** No relevant information available.

· **Persistence and degradability** No relevant information available.

· **Bioaccumulative potential:** No relevant information available.

· **Mobility in soil:** No relevant information available.

· **Additional ecological information**

· **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Other adverse effects** No relevant information available.

## 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Smaller quantities can be disposed of with household waste.

The user of this material has the responsibility to dispose of unused material, residues and containers in

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compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b>   |                 |
| · DOT, ADR, IMDG, IATA   | Not regulated.  |
| · <b>UN proper shipping name</b>   |                 |
| · DOT, ADR, IMDG, IATA   | Not regulated.  |
| · <b>Transport hazard class(es)</b>  |                 |
| · DOT, ADR, IMDG, IATA   |                 |
| · <b>Class</b>   | Not regulated.  |
| · <b>Packing group</b>   |                 |
| · DOT, ADR, IMDG, IATA   | Not regulated.  |
| · <b>Environmental hazards</b>   |                 |
| · <b>Marine pollutant:</b>   | No              |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

8052-42-4	Asphalt
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14808-60-7	Quartz (SiO <sub>2</sub> )
14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )
13463-67-7	titanium dioxide
8007-18-9	C.I. Pigment Yellow 53

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· **IARC (International Agency for Research on Cancer):**

8052-42-4	Asphalt	2B
14808-60-7	Quartz (SiO <sub>2</sub> )	1
13463-67-7	titanium dioxide	2B

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

8052-42-4	Asphalt
14808-60-7	Quartz (SiO <sub>2</sub> )
13463-67-7	titanium dioxide
8007-18-9	C.I. Pigment Yellow 53

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** February 27, 2018 / -

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 NIOSH: National Institute for Occupational Safety and Health  
 OSHA: Occupational Safety & Health Administration  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 BEI: Biological Exposure Limit  
 Carc. 1A: Carcinogenicity – Category 1A  
 Carc. 2: Carcinogenicity – Category 2

· **Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))  
 Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sor\\_internet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sor_internet/registry/substreg/home/overview/home.do))

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Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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