

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

(Cont'd. on page 2)

Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: February 27, 2018

Revision: February 27, 2018

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

(Cont'd. of page 1)

· **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 ₂)	☠ Carc. 1A, H350	10-20%
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)		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.

(Cont'd. on page 3)

Safety Data Sheet

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Printing date: February 27, 2018

Revision: February 27, 2018

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

(Cont'd. of page 2)

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.

(Cont'd. on page 4)

Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: February 27, 2018

Revision: February 27, 2018

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

(Cont'd. of page 3)

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

14808-60-7 Quartz (SiO₂)

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

14807-96-6 Talc (Mg₃H₂(SiO₃)₄)

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

(Cont'd. on page 5)

Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: February 27, 2018

Revision: February 27, 2018

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

(Cont'd. of page 4)

LMPE (Mexico) Long-term value: 2* mg/m³
A4, *fracción respirable

1332-58-7 Kaolin

PEL (USA) Long-term value: 15* 5** mg/m³
*total dust **respirable fraction

REL (USA) Long-term value: 10* 5** mg/m³
*total dust **respirable fraction

TLV (USA) Long-term value: 2* mg/m³
E; as respirable fraction

EL (Canada) Long-term value: 2 mg/m³

EV (Canada) Long-term value: 2(D) mg/m³
respirable

LMPE (Mexico) Long-term value: 2* mg/m³
A4, *fracción respirable

13463-67-7 titanium dioxide

PEL (USA) Long-term value: 15* mg/m³
*total dust

REL (USA) See Pocket Guide App. A

TLV (USA) Long-term value: 10 mg/m³
withdrawn from NIC

EL (Canada) Long-term value: 10* 3** mg/m³
*total dust; **respirable fraction; IARC 2B

EV (Canada) Long-term value: 10 mg/m³
total dust

LMPE (Mexico) Long-term value: 10 mg/m³
A4

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

PEL (USA) Long-term value: 10* 15** 5*** mg/m³
*Fume; Rouge: **Total dust, ***respirable

REL (USA) Long-term value: 5 mg/m³
Dust & fume, as Fe

TLV (USA) Long-term value: 5* mg/m³
*as respirable fraction

EL (Canada) Short-term value: 10** mg/m³
Long-term value: 5* 10*** 3**** mg/m³
*dust & fume **fume; Rouge: ***total dust****resp.

EV (Canada) Long-term value: 5* 10** mg/m³
*respirable, including Rouge; **total dust

LMPE (Mexico) Long-term value: 5* mg/m³
A4, *fracción respirable

1332-37-2 Iron oxide

REL (USA) Long-term value: 1 mg/m³
as Fe

TLV (USA) Long-term value: 1 mg/m³
as Fe

(Cont'd. on page 6)

Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: February 27, 2018

Revision: February 27, 2018

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

(Cont'd. of page 5)

LMPE (Mexico)	Long-term value: 1 mg/m ³ 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.

(Cont'd. on page 7)

Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: February 27, 2018

Revision: February 27, 2018

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

(Cont'd. of page 6)

· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
· Oxidizing properties:	Not determined.
· Vapor pressure:	Not determined.
· Density:	Not determined.
· Relative density:	Not determined.
· Vapor density:	Not applicable.
· Evaporation rate:	Not applicable.
· Solubility in / Miscibility with Water:	Insoluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Other information	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.

(Cont'd. on page 8)

Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: February 27, 2018

Revision: February 27, 2018

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

(Cont'd. of page 7)

· **Carcinogenic categories**

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

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

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

14808-60-7	Quartz (SiO ₂)	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

(Cont'd. on page 9)

Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: February 27, 2018

Revision: February 27, 2018

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

(Cont'd. of page 8)

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

- | | |
|--|-----------------|
| <ul style="list-style-type: none"> · UN-Number · DOT, ADR, IMDG, IATA | Not regulated. |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT, ADR, IMDG, IATA | Not regulated. |
| <ul style="list-style-type: none"> · Transport hazard class(es) · DOT, ADR, IMDG, IATA · Class | Not regulated. |
| <ul style="list-style-type: none"> · Packing group · DOT, ADR, IMDG, IATA | Not regulated. |
| <ul style="list-style-type: none"> · Environmental hazards · Marine pollutant: | No |
| <ul style="list-style-type: none"> · Special precautions for user | Not applicable. |
| <ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | 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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(Cont'd. on page 10)

Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: February 27, 2018

Revision: February 27, 2018

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

(Cont'd. of page 9)

14808-60-7	Quartz (SiO ₂)
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)
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 ₂)	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 ₂)
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)
 Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)

(Cont'd. on page 11)

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

Printing date: February 27, 2018

Revision: February 27, 2018

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

(Cont'd. of page 10)

Website, Chemical Abstracts Registry, American Chemical Society (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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