

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 (SiO2)	 Carc. 1A, H350	10-20%
14807-96-6	Talc (Mg3H2(SiO3)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.

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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 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

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LMPE (Mexico)	Long-term value: 2* mg/m ³ A4, *fracción respirable
1332-58-7 Kaolin	
PEL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	Long-term value: 2* mg/m ³ E; as respirable fraction
EL (Canada)	Long-term value: 2 mg/m ³
EV (Canada)	Long-term value: 2(D) mg/m ³ respirable
LMPE (Mexico)	Long-term value: 2* mg/m ³ A4, *fracción respirable
13463-67-7 titanium dioxide	
PEL (USA)	Long-term value: 15* mg/m ³ *total dust
REL (USA)	See Pocket Guide App. A
TLV (USA)	Long-term value: 10 mg/m ³ withdrawn from NIC
EL (Canada)	Long-term value: 10* 3** mg/m ³ *total dust; **respirable fraction; IARC 2B
EV (Canada)	Long-term value: 10 mg/m ³ total dust
LMPE (Mexico)	Long-term value: 10 mg/m ³ A4
1309-37-1 diiron trioxide / iron (III) oxide	
PEL (USA)	Long-term value: 10* 15** 5*** mg/m ³ *Fume; Rouge: **Total dust, ***respirable
REL (USA)	Long-term value: 5 mg/m ³ Dust & fume, as Fe
TLV (USA)	Long-term value: 5* mg/m ³ *as respirable fraction
EL (Canada)	Short-term value: 10** mg/m ³ Long-term value: 5* 10*** 3**** mg/m ³ *dust & fume**fume; Rouge: ***total dust****resp.
EV (Canada)	Long-term value: 5* 10** mg/m ³ *respirable, including Rouge; **total dust
LMPE (Mexico)	Long-term value: 5* mg/m ³ A4, *fracción respirable
1332-37-2 Iron oxide	
REL (USA)	Long-term value: 1 mg/m ³ as Fe
TLV (USA)	Long-term value: 1 mg/m ³ as Fe

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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.

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· 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.

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· 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

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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

- | | |
|--|-----------------|
| · UN-Number | |
| · DOT, ADR, IMDG, IATA | Not regulated. |
| · UN proper shipping name | |
| · DOT, ADR, IMDG, IATA | Not regulated. |
| · Transport hazard class(es) | |
| · DOT, ADR, IMDG, IATA | |
| · Class | Not regulated. |
| · Packing group | |
| · DOT, ADR, IMDG, IATA | Not regulated. |
| · Environmental hazards | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · 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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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/sor internet/registry/substreg/home/overview/home.do)

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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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