

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

Printing date: 02/24/2016

Revision: 02/24/2016

## 1 Identification

· **Product identifier**

· **Trade name: Algae Resistant Shingles**

· **Other product identifiers:**

Carriage House® (AR only)  
XT25 AR  
XT30 AR  
Grand Manor® (AR only)  
Hatteras® (AR only)  
Hatteras® Accessory (AR only)  
Independence®  
Landmark® AR  
Landmark® Premium  
Landmark® TL  
Landmark® IR  
Presidential Shake®  
Presidential Shake® TL  
Shadow Ridge®  
Shangle Ridge® (AR only)  
Solaris® Hip & Ridge Accessory (AR only)  
Solaris® Accessory (AR only)  
Landmark Solaris® Gold  
Landmark Solaris® Platinum  
Patriot AR  
Highland Slate®  
Cedar Crest®

· **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

· **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.

(Cont'd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 02/24/2016

Revision: 02/24/2016

**Trade name: Algae Resistant Shingles**

(Cont'd. of page 1)

- **Hazard-determining components of labeling:** Not applicable.
  - **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> )	☠ Carc. 2, H351	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 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:** 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.  
 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.

(Cont'd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 02/24/2016

Revision: 02/24/2016

**Trade name: Algae Resistant Shingles**

(Cont'd. of page 2)

- **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.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**  
Avoid storage near extreme heat, ignition sources or open flame.

(Cont'd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 02/24/2016

Revision: 02/24/2016

**Trade name: Algae Resistant Shingles**

(Cont'd. of page 3)

- **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>)

PEL (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>)

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

(Cont'd. on page 5)

## Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 02/24/2016

Revision: 02/24/2016

**Trade name: Algae Resistant Shingles**

(Cont'd. of page 4)

**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

(Cont'd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 02/24/2016

Revision: 02/24/2016

**Trade name: Algae Resistant Shingles**

(Cont'd. of page 5)

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**

· **Personal protective equipment:**

· **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.

(Cont'd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 02/24/2016

Revision: 02/24/2016

Trade name: Algae Resistant Shingles

(Cont'd. of page 6)

· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not self-igniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits</b>	
Lower:	Not determined.
Upper:	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>	
Dynamic:	Not applicable.
Kinematic:	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:**
- **LD/LC50 values that are relevant for classification:** None.

(Cont'd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 02/24/2016

Revision: 02/24/2016

**Trade name: Algae Resistant Shingles**

(Cont'd. of page 7)

- **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.
- **Carcinogenic categories**

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

14808-60-7	Quartz (SiO <sub>2</sub> )	1
8052-42-4	Asphalt	2B
14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	2B
13463-67-7	titanium dioxide	2B
1309-37-1	diiron trioxide / iron (III) oxide	3

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

14808-60-7	Quartz (SiO <sub>2</sub> )	K
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· **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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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 non-classifiable 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.

(Cont'd. on page 9)



# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 02/24/2016

Revision: 02/24/2016

**Trade name:** Algae Resistant Shingles

(Cont'd. of page 8)

· **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 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.

(Cont'd. on page 10)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 02/24/2016

Revision: 02/24/2016

**Trade name: Algae Resistant Shingles**

(Cont'd. of page 9)

**· Section 304 (emergency release notification):**

None of the ingredients are listed.

**· Sections 311/312 (hazardous chemical threshold planning quantity in pounds):**

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
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.

**· Carcinogenic categories**
**· 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
14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	2B
13463-67-7	titanium dioxide	2B
1309-37-1	diiron trioxide / iron (III) oxide	3

**· 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

**· Canadian substance listings**
**· Canadian Domestic Substances List (DSL):**

All ingredients are listed.

(Cont'd. on page 11)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 02/24/2016

Revision: 02/24/2016

<b>Trade name: Algae Resistant Shingles</b>
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(Cont'd. of page 10)

<b>· Canadian Ingredient Disclosure list (limit 0.1%):</b>
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None of the ingredients are listed.
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<b>· Canadian Ingredient Disclosure list (limit 1%):</b>
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14808-60-7   Quartz (SiO <sub>2</sub> )
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## 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** 02/24/2016 / -

· **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

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Carc. 1A: Carcinogenicity, Hazard Category 1A

Carc. 2: Carcinogenicity, Hazard Category 2

· **Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))

Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do))

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

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

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

Safety Data Sheets, Individual Manufacturers

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