



## 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 ÁR

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	·	🕸 Carc. 2, H351	10-20%
	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

Components w	vith limit values that require monitoring at the workplace:
8052-42-4 Asph	nalt
REL (USA)	Ceiling limit value: 5* mg/m³ *15-min; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.5* mg/m³ *inh. fraction; as benzene-soluble aerosol; BEIp
EL (Canada)	Long-term value: 0.5 mg/m³ inhalable, IARC 2B
EV (Canada)	Long-term value: 0.5 mg/m³ fume, as benzene-soluble aerosol, inhalable
LMPE (Mexico)	Long-term value: 0.5* mg/m³ A4, IBEp;*fracción inhalable
14808-60-7 Qua	artz (SiO2)
PEL (USA)	see Quartz listing
REL (USA)	Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.025* mg/m³ *as respirable fraction
EL (Canada)	Long-term value: 0.025 mg/m³ ACGIH A2; IARC 1
EV (Canada)	Long-term value: 0.10* mg/m³ *respirable fraction
LMPE (Mexico)	Long-term value: 0.025* mg/m³ A2, *fracción respirable
14807-96-6 Tale	c (Mg3H2(SiO3)4)
PEL (USA)	Long-term value: 20 mppcf ppm (containing <1% Quartz)
REL (USA)	Long-term value: 2* mg/m³ *respirable dust; and <1% Quartz
TLV (USA)	Long-term value: 2* mg/m³ *as respirable fraction; E
EL (Canada)	Long-term value: 2 *0.1 f/cc mg/m³ resp. *if contains asbestos : ACGIH A1, IARC 1
EV (Canada)	Long-term value: 2* mg/m³, 2 f/cc ppm *respirable

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	ICo	ont'd of page 4)	
LMPE (Mexico)	Long-term value: 2* mg/m³	ont'd. of page 4)	
, ,	A4, *fracción respirable		
1332-58-7 Kaol	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		
, ,	Long-term value: 2* mg/m³ A4, *fracción respirable		
13463-67-7 tita			
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 diiro	on 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		
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LMPE (Mexico) Long-term value: 1 mg/m<sup>3</sup>

como Fe

#### 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)

#### 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 evewear.
- 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.

Information on basis physical s	and chemical properties	
Information on basic physical a	ind 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/wa	ter): 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 eve: 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

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· IARC (Inte	rnational Agency for Research on Cancer):	
8052-42-4	1 Asphalt	2B
14808-60-7	7 Quartz (SiO2)	1
13463-67-7	7 titanium dioxide	2B
· NTP (Natio	onal Toxicology Program):	
14808-60-7	7 Quartz (SiO2)	K

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

None of the ingredients are listed.

8007-18-9 C.I. Pigment Yellow 53

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

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 MARPOL73/78 and the IBC Code	II of 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 (SiO2)	
	Talc (Mg3H2(SiO3)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.	
· ·	onmental Protection Agency):	
None of the	ingredients are listed.	
· IARC (Inter	national Agency for Research on Cancer):	
8052-42-4	'	2B
	Quartz (SiO2)	1
13463-67-7	titanium dioxide	2B
· NIOSH-Ca (	(National Institute for Occupational Safety and Health):	
8052-42-4		
	Quartz (SiO2)	
	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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