1 Identification

- Product identifier
- Trade name: Flintlastic SA Cap, SA Cap CoolStar, SA Cap FR
- Product code: 619590 (White), 619880 (CoolStar), 619884 (FR)
- Recommended use and restriction on use
- Recommended use:
  Self-adhering modified bituminous membranes to be used as protective, cap layers on low-sloped roofs.
- Restrictions on use: Contact manufacturer

- 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
  STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

- Label elements
- GHS label elements
  The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms:

  GHS08

- Signal word: Warning
- Hazard statements:
  H373 May cause damage to organs through prolonged or repeated exposure.
- Precautionary statements:
  P260 Do not breathe vapors.
  P314 Get medical advice/attention if you feel unwell.
  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

(Cont'd. on page 2)
3 Composition/information on ingredients

- Chemical characterization: Mixtures

<table>
<thead>
<tr>
<th>Components</th>
<th>Description</th>
<th>Carc.</th>
<th>STOT SE</th>
<th>STOT RE</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>8052-42-4</td>
<td>Asphalt</td>
<td>2</td>
<td>H351</td>
<td></td>
<td>35-75%</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>quartz</td>
<td></td>
<td></td>
<td></td>
<td>0-37%</td>
</tr>
<tr>
<td>68476-96-0</td>
<td>Coal Slag</td>
<td>2</td>
<td>H351</td>
<td>RE 2</td>
<td>0-25%</td>
</tr>
<tr>
<td>65997-17-3</td>
<td>Fibrous glass</td>
<td>1</td>
<td>H350</td>
<td></td>
<td>0-5%</td>
</tr>
<tr>
<td>8042-47-5</td>
<td>White Mineral Oil</td>
<td>1</td>
<td>Asp. Tox. 1, H304</td>
<td>0-2%</td>
<td></td>
</tr>
</tbody>
</table>

- 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:
    - Immediately wash with water and soap and rinse thoroughly.
    - If skin irritation is experienced, consult a doctor.
  - After eye contact:
    - Remove contact lenses if worn.
    - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - After swallowing:
    - unlikely route of exposure.
    - 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:
    - Headache
    - Breathing difficulty
    - Coughing
  - Danger: May cause damage to organs through prolonged or repeated exposure.
  - Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents:
    - CO2, extinguishing powder or water spray. Fight larger fires with water spray.
  - For safety reasons unsuitable extinguishing agents: None.
**Trade name:** Flintlastic SA Cap, SA Cap CoolStar, SA Cap FR

- **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.
  Use personal protective equipment as required.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **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.
  - **Information about protection against explosions and fires:**
    Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
  - **Requirements to be met by storerooms and receptacles:**
    Storage area should be dry and well-ventilated.
  - **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:**
    14808-60-7 quartz
    REL (USA)  Long-term value: 0.05* mg/m³
    *respirable dust; See Pocket Guide App. A

(Cont'd. of page 2)
Trade name: Flintlastic SA Cap, SA Cap CoolStar, SA Cap FR

<table>
<thead>
<tr>
<th>TLV (USA)</th>
<th>Long-term value: 0.025* mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>*as respirable fraction</td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Long-term value: 0.025 mg/m³</td>
</tr>
<tr>
<td></td>
<td>ACGIH A2; IARC 1</td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>Long-term value: 0.10* mg/m³</td>
</tr>
<tr>
<td></td>
<td>*respirable fraction</td>
</tr>
<tr>
<td>LMPE (Mexico)</td>
<td>Long-term value: 0.025* mg/m³</td>
</tr>
<tr>
<td></td>
<td>A2, *fracción respirable</td>
</tr>
</tbody>
</table>

8052-42-4 Asphalt

<table>
<thead>
<tr>
<th>REL (USA)</th>
<th>Ceiling limit value: 5* mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>*15-min; See Pocket Guide App. A</td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 0.5* mg/m³</td>
</tr>
<tr>
<td></td>
<td>*inhal. fraction; as benzene-soluble aerosol; BElp</td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Long-term value: 0.5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>inhalable, IARC 2B</td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>Long-term value: 0.5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>fume, as benzene-soluble aerosol, inhalable</td>
</tr>
<tr>
<td>LMPE (Mexico)</td>
<td>Long-term value: 0.5* mg/m³</td>
</tr>
<tr>
<td></td>
<td>A4, IBEp; *fracción inhalable</td>
</tr>
</tbody>
</table>

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
- 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.
  Wash hands before breaks and at the end of work.
  Avoid close or long term contact with the skin.
  Avoid contact with the eyes.
- Engineering controls: No relevant information available.
- Breathing equipment:
  Not required under normal conditions of use.
  Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.
- Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
</tr>
<tr>
<td>Form: Solid material</td>
</tr>
<tr>
<td>Color: Black</td>
</tr>
<tr>
<td>Odor: Petroleum-like</td>
</tr>
<tr>
<td>Odor threshold: Not determined.</td>
</tr>
<tr>
<td><strong>pH-value</strong></td>
</tr>
<tr>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Melting point/Melting range</strong></td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Boiling point/Boiling range</strong></td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
</tr>
<tr>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gaseous)</strong></td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Danger of explosion</strong></td>
</tr>
<tr>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>Explosion limits</strong></td>
</tr>
<tr>
<td>Lower: Not determined.</td>
</tr>
<tr>
<td>Upper: Not determined.</td>
</tr>
<tr>
<td><strong>Oxidizing properties</strong></td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Density</strong></td>
</tr>
<tr>
<td>Relative density: Not determined.</td>
</tr>
<tr>
<td>Vapor density: Not applicable.</td>
</tr>
<tr>
<td>Evaporation rate: Not applicable.</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with Water</strong></td>
</tr>
<tr>
<td>Insoluble.</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water)</strong></td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
</tr>
<tr>
<td>Dynamic: Not applicable.</td>
</tr>
</tbody>
</table>

(Cont'd. on page 6)
Trade name: Flintlastic SA Cap, SA Cap CoolStar, SA Cap FR

(Cont'd. of page 5)

- 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 acids and oxidizing agents.
- Conditions to avoid: Keep ignition sources away - Do not smoke.
- Incompatible materials: Oxidizers
- Hazardous decomposition products: Carbon monoxide and carbon dioxide
  Hydrocarbons

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - 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.

<table>
<thead>
<tr>
<th>IARC (International Agency for Research on Cancer):</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7 quartz</td>
</tr>
<tr>
<td>8052-42-4 Asphalt</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NTP (National Toxicology Program):</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7 quartz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OSHA-Ca (Occupational Safety &amp; Health Administration):</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients are listed.</td>
</tr>
</tbody>
</table>

- Probable route(s) of exposure:
  - Eye contact.
  - Skin contact.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
- 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: May cause damage to organs through prolonged or repeated exposure.

(Cont'd. on page 7)
Trade name: Flintlastic SA Cap, SA Cap CoolStar, SA Cap FR

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 product to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- Other adverse effects: No relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation:
    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 Packaging
  - 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
### Trade name: Flintlastic SA Cap, SA Cap CoolStar, SA Cap FR

### 15 Regulatory information

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

  - **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 or exempt.

- **Proposition 65 (California)**
  - **Chemicals known to cause cancer:**
    Reference to Crystalline Silica and/or Quartz is based on unbound respirable particles and is not generally applicable to product as supplied.

  | 14808-60-7 | quartz |
  | 8052-42-4 | Asphalt |

  - **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):**

  | 14808-60-7 | quartz | 1 |
  | 8052-42-4 | Asphalt | 2B |

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

  | 14808-60-7 | quartz |
  | 8052-42-4 | Asphalt |

(Cont'd. of page 7)
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 05/12/2016
Revision: 05/12/2016

Trade name: Flintlastic SA Cap, SA Cap CoolStar, SA Cap FR

(Cont'd. of page 8)

- Canadian Domestic Substances List (DSL):
  All ingredients are listed or exempt.

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 05/12/2016 / -

- 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
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  NIOSH: National Institute for Occupational Safety
  OSHA: Occupational Safety & Health
  Carc. 1B: Carcinogenicity, Hazard Category 1B
  Carc. 2: Carcinogenicity, Hazard Category 2
  STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1
  STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
  Asp. Tox. 1: Aspiration hazard, Hazard Category 1

- 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)
  Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
  Safety Data Sheets, Individual Manufacturers

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Website: www.chemtelinc.com