1 Identification

- Product identifier
  - Trade name: Flintslastic® GMS
    Flintslastic® GMS CoolStar
    Flintslastic® Poly SMS Base Sheet
    Flintslastic® Ultra Poly SMS Base Sheet
  - Product code: CT-10114-2
- Recommended use and restriction on use
  - Recommended use: Asphalt membranes used for weatherproofing
  - 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
  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: None.

- Other hazards
  0% of the mixture consists of component(s) of unknown toxicity.
  There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

<table>
<thead>
<tr>
<th>Components</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>8052-42-4</td>
<td>Asphalt</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>quartz</td>
</tr>
<tr>
<td>1333-86-8</td>
<td>carbon black</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.

(Cont'd. on page 2)
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:**
    - Unlikely route of exposure.
    - Remove contact lenses if worn, if possible.
    - 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:** No relevant information available.
  - **Indication of any immediate medical attention and special treatment needed:**
    - No relevant information available.

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.
- **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.
- **Environmental precautions:** Avoid release to the environment.
Trade name: Flintlastic® GMS  
Flintlastic® GMS CoolStar  
Flintlastic® Poly SMS Base Sheet  
Flintlastic® Ultra Poly SMS Base Sheet

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 respiratory protective device available.

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:

<table>
<thead>
<tr>
<th>Material</th>
<th>Limit Value</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>8052-42-4 Asphalt</td>
<td>Ceiling limit value: 5* mg/m³</td>
<td></td>
</tr>
<tr>
<td>REL (USA)</td>
<td>*15-min; See Pocket Guide App. A</td>
<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 0.5* mg/m³</td>
<td></td>
</tr>
<tr>
<td>*inh. fraction; as benzene-soluble aerosol; BEIp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Long-term value: 0.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Inhalable, IARC 2B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>Long-term value: 0.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Fume, as benzene-soluble aerosol, inhalable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LMPE (Mexico)</td>
<td>Long-term value: 0.5* mg/m³</td>
<td></td>
</tr>
<tr>
<td>A4, BE Ip; *fracción inhalable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

14808-60-7 quartz

PEL (USA) | see Quartz listing |
Trade name: Flintlastic® GMS
Flintlastic® GMS CoolStar
Flintlastic® Poly SMS Base Sheet
Flintlastic® Ultra Poly SMS Base Sheet

<table>
<thead>
<tr>
<th></th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
<th>LMPE (Mexico)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Long-term value: 0.05* mg/m³</td>
<td>Long-term value: 0.025* mg/m³</td>
<td>Long-term value: 0.025 mg/m³</td>
<td>Long-term value: 0.10* mg/m³</td>
<td>Long-term value: 0.025* mg/m³</td>
</tr>
<tr>
<td></td>
<td>*respirable dust; See Pocket Guide App. A</td>
<td>*as respirable fraction</td>
<td>ACGIH A2; IARC 1</td>
<td>*respirable fraction</td>
<td>A2, *fracción respirable</td>
</tr>
<tr>
<td>carbon black</td>
<td>PEL (USA)</td>
<td>REL (USA)</td>
<td>TLV (USA)</td>
<td>EL (Canada)</td>
<td>EV (Canada)</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 3.5 mg/m³</td>
<td>Long-term value: 3.5* mg/m³</td>
<td>Long-term value: 3* mg/m³</td>
<td>Long-term value: 3 mg/m³</td>
<td>Long-term value: 3.5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>*0.1 in presence of PAHs; See Pocket Guide Apps. A+C</td>
<td>*inhalable fraction</td>
<td>IARC 2B</td>
<td></td>
<td>A3, *fracción inhalable</td>
</tr>
</tbody>
</table>

Ingredients with biological limit values:

8052-42-4 Asphalt

BET (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.
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.
Use respiratory protection when grinding or cutting material.
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 07/11/2016
Revision: 07/11/2016

Trade name: Flintlastic® GMS
    Flintlastic® GMS CoolStar
    Flintlastic® Poly SMS Base Sheet
    Flintlastic® Ultra Poly SMS Base Sheet

(Cont’d. of page 4)

- **Protection of hands:**
  - Protective gloves
  
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Eye protection:**
  - Safety glasses

- **Body protection:** Protective work clothing

- **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

(Cont’d. on page 6)

- **Information on basic physical and chemical properties**

  - **Appearance:**
    - **Form:** Solid material
    - **Color:** Black
    - **Odor:** Odorless
    - **Odor threshold:** Not determined.

  - **pH-value:** Not applicable.
  - **Melting point/Melting range:** Not determined.
  - **Boiling point/Boiling range:** Not determined.

  - **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not determined.

- **Auto-ignition temperature:** Not determined.

- **Decomposition temperature:** Not determined.

- **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:**
  - **Relative density:** Not determined.
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Trade name: Flintlastic® GMS
Flintlastic® GMS CoolStar
Flintlastic® Poly SMS Base Sheet
Flintlastic® Ultra Poly SMS Base Sheet

(Cont’d. of page 5)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor density</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water</td>
<td>Insoluble.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Dynamic</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Other information</td>
<td>No relevant information available.</td>
</tr>
</tbody>
</table>

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 and alkali.
- **Conditions to avoid**: Store away from oxidizing agents.
- **Incompatible materials**: Oxidizers, strong bases, strong acids
- **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.
  - **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.
- **IARC (International Agency for Research on Cancer)**:
  - 14808-60-7 quartz 1
  - 1333-86-4 carbon black 2B
  - 8052-42-4 Asphalt 2B
- **NTP (National Toxicology Program)**:
  - 14808-60-7 quartz K

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

Printing date: 07/11/2016
Revision: 07/11/2016

**Trade name:** Flintlastic® GMS
Flintlastic® GMS CoolStar
Flintlastic® Poly SMS Base Sheet
Flintlastic® Ultra Poly SMS Base Sheet

---

**OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

- **Probable route(s) of exposure:** Skin contact.
- **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 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:** Avoid release to the environment.
  - **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:**
    Smaller quantities can be disposed of with household waste.
    Contact waste processors for recycling information.
    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**
  - 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)**
    Some ingredients listed.

  - **Proposition 65 (California)**
    Chemicals known to cause cancer:
    References to chemical components listed below are based on unbound respirable particles and are not generally applicable to product as supplied.

    - 8052-42-4 Asphalt
    - 14808-60-7 quartz
**Safety Data Sheet**

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 07/11/2016
Revision: 07/11/2016

---

**Trade name:** Flintlastic® GMS
Flintlastic® GMS CoolStar
Flintlastic® Poly SMS Base Sheet
Flintlastic® Ultra Poly SMS Base Sheet

---

1333-86-4 [carbon black](Cont’d. of page 8)

- **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):**

<table>
<thead>
<tr>
<th>Code</th>
<th>Chemical</th>
</tr>
</thead>
<tbody>
<tr>
<td>2B</td>
<td>Asphalt</td>
</tr>
<tr>
<td>1</td>
<td>quartz</td>
</tr>
<tr>
<td>2B</td>
<td>carbon black</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Chemical</th>
</tr>
</thead>
<tbody>
<tr>
<td>2B</td>
<td>Asphalt</td>
</tr>
<tr>
<td>1</td>
<td>quartz</td>
</tr>
<tr>
<td></td>
<td>carbon black</td>
</tr>
</tbody>
</table>

  **Canadian Domestic Substances List (DSL):**
  Some ingredients listed.

- **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** 07/11/2016 / -

- **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
  LDLo: Lowest Lethal Dose Observed
  Carc. 2: Carcinogenicity – Category 2
  Carc. 2: Carcinogenicity – Category 2

---

(Cont’d. on page 10)
Trade name: Flintlastic® GMS
   Flintlastic® GMS CoolStar
   Flintlastic® Poly SMS Base Sheet
   Flintlastic® Ultra Poly SMS Base Sheet

- 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)
  978-0-07-176923-5.
  Safety Data Sheets, Individual Manufacturers

SDS Prepared by:
ChemTel Inc.
1305 North Florida Avenue
Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtelinc.com

(Cont'd. of page 9)