



GemSeal® Guardian AE / GemSeal® Guardian PM / GemSeal® Guardian NQ

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Date of issue: 02/01/2016

Revision date: 05/27/2020

Version: 1.2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name & code : GemSeal® Guardian AE
Product Code: 60310003 – 55gal / 60310031 – 1gal

GemSeal® Guardian PM
Product Code: 60310065 – 55gal / 60310042 – 1gal

GemSeal® Guardian NQ
Product Code: 60310071 – 1gal

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : See TDS for additional information

1.3. Details of the supplier of the safety data sheet

GemSeal Pavement Products
3700 Arco Corporate Drive, Suite 425
Charlotte, NC 28273 - USA
T 866-264-8273 Tech Service: Monday - Friday; 8:00am - 5:00pm EST

1.4. Emergency telephone number

Emergency number : CHEMTREC (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Not a dangerous substance according to GHS

2.2. Label elements

No Hazard Symbol required

GHS-US labelling

Hazard pictograms (GHS-US) : None

Signal word (GHS-US) : None

Hazard statements (GHS-US) : Not classified as a physical hazard under GHS criteria.

Precautionary statements (GHS-US) : Obtain special instructions before use. No precautionary phrases.

No additional information available.

2.4. Unknown acute toxicity (GHS-US)

None Unknown

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

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3.2. Mixture

| Name | CAS Number | Wt. % |
|----------------|------------|---------|
| Asphalt | 8052-42-4 | 20 - 40 |
| Mineral Filler | 1332-58-7 | 10 - 40 |
| Pigment | 1333-86-4 | < 2 |

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures after inhalation | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell. |
| First-aid measures after skin contact | : If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists. |
| First-aid measures after eye contact | : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention. |
| First-aid measures after ingestion | : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. |

4.2. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Treat for surrounding material.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

5.3. Advice for firefighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.1.2. For emergency responders

No additional information available.

6.2. Methods and material for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Scoop up material and place in a disposal container.

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6.3. Reference to other sections

No additional information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands before eating, drinking, or smoking. Launder contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Keep it out of freezing temperature.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Asphalt (8052-42-4) | | |
|----------------------------|-------------------------------------|---|
| USA ACGIH | ACGIH TWA (mg/m ³) | 0.5 mg/m ³ |
| Mineral Filler (1332-58-7) | | |
| USA ACGIH | ACGIH TWA (mg/m ³) | 0.025 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | (30)/(%SiO ₂ + 2) mg/m ³ TWA, total dust (250)/(%SiO ₂ + 5) mppcf TWA, respirable fraction (10)/(%SiO ₂ + 2) mg/m ³ TWA, respirable fraction |
| Pigment (1333-86-4) | | |
| USA ACGIH | ACGIH TWA (mg/m ³) | 3 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 3.5 mg/m ³ |

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below

8.2. Exposure controls

recommended exposure limits.

Hand protection : Wear suitable gloves.

Eye protection : Safety glasses or goggles are recommended when using product.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : No protective equipment is needed under normal use conditions.

Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

Other information : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|----------------------------|
| Physical state | : Liquid. |
| Colour | : Dark Brown/Black. |
| Odour | : Asphalt. |
| Odour threshold | : No data available. |
| pH | : No data available. |
| Relative evaporation rate (butylacetate=1) | : No data available. |
| Melting point | : 32 °F (0 °C). |
| Freezing point | : 32 °F (0 °C). |
| Boiling point | : 212.0 °F (100.0 °C). |
| Flash point | : Not applicable. |
| Self ignition temperature | : No data available. |
| Decomposition temperature | : No data available. |
| Flammability (solid, gas) | : Not flammable. |
| Vapour pressure | : No data available. |
| Relative vapour density at 20 °C | : No data available. |
| Relative density | : 1.13-1.29. |
| Solubility | : No data available. |
| Log Pow | : No data available. |
| Log Kow | : No data available. |
| Viscosity, kinematic | : No data available. |
| Viscosity, dynamic | : 6000 cps and above @25°C |
| Explosive properties | : No data available. |
| Oxidising properties | : No data available. |
| Explosive limits | : No data available. |

9.2. Other information

VOC content : Not data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Incompatible materials.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Based on available data, the classification criteria are not met.

| GemSeal® Guardian AE / GemSeal® Guardian PM / GemSeal® Guardian NQ | |
|--|-------------|
| LD50 oral rat | 3497 mg/kg |
| LD50 dermal rabbit | 4928 mg/kg |
| LC50 inhalation rat | >20 mg/l/4h |

| Asphalt (8052-42-4) | |
|---------------------|--------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |

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| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : No skin corrosion/irritation |
| Serious eye damage/irritation | : May cause serious eye irritation. |
| Respiratory or skin sensitisation | : There is no data available for this product. |
| Germ cell mutagenicity | : There is no data available for this product. |
| Carcinogenicity | : Contains no ingredients above reportable quantities listed as a carcinogen. |

| Asphalt (8052-42-4) | |
|--|----|
| IARC group | 2B |
| National Toxicity Program (NTP) Status | 5 |

| | |
|--|---|
| Reproductive toxicity | : No information available. |
| Specific target organ toxicity (single exposure) | : No information available. |
| Specific target organ toxicity (repeated exposure) | : No information available. |
| Aspiration hazard | : No information available. |
| Symptoms/injuries after inhalation | : Not cause injuries after inhalation. |
| Symptoms/injuries after skin contact | : No skin irritation. |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. |
| Symptoms/injuries after ingestion | : May be harmful if swallowed. May cause stomach distress, nausea or vomiting. |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

| GemSeal® Guardian AE / GemSeal® Guardian PM / GemSeal® Guardian NQ | |
|--|------------------|
| Persistence and degradability | Not established. |

12.3. Bioaccumulative potential

| GemSeal® Guardian AE / GemSeal® Guardian PM / GemSeal® Guardian NQ | |
|--|------------------|
| Bioaccumulative potential | Not established. |

12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

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SECTION 14: Transport information

In accordance with DOT:

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Additional information

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

SECTION 15: Regulatory information

15.1. US Federal regulations

International Inventories

TSCA Complies
DSL Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|----|
| Acute Health Hazard | No |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). Suggest following the specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.2. US State regulations

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| | |
|----------------------------|---|
| State or local regulations | This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements. |
|----------------------------|---|

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

| | |
|-------------|---|
| IARC | International Agency for Research on Cancer. 1 - Carcinogenic to humans; 2A - Probably carcinogenic to humans; 2B - Possibly carcinogenic to humans; 3 - Not classifiable; 4 - Probably not carcinogenic to humans. |
| NTP | National Toxicology Program. 1 - Evidence of Carcinogenicity; 2 - Known Human Carcinogens; 3 - Reasonably anticipated to be Human Carcinogen; 4 - Substances delisted from report on Carcinogens; 5 - Twelfth Report - Items under consideration. |

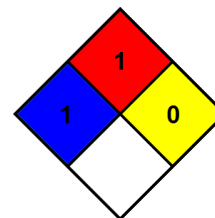
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SECTION 16: Other information

| | | |
|--------------------|---|---|
| Date of issue | : | 05/27/2020 |
| Revision date: | : | 05/27/2020 |
| Data sources | : | SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. |
| NFPA health hazard | : | 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given. |
| NFPA fire hazard | : | 1 - Must be preheated before ignition can occur. |
| NFPA reactivity | : | 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. |



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product