

SAFETY DATA SHEET

Section 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: GemSeal® GuardFlex
Product Code: 60300058 (5 gal)

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Use: Sealer.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name/Address: GemSeal Pavement Products
3700 Arco Corporate Drive, Suite 425
Charlotte, NC 28273
Telephone Number: 866-264-8273 Tech Service 8:00 to 5:00 Eastern, Mon.-Fri.

1.4 EMERGENCY TELEPHONE NUMBER

Emergency Telephone Number: CHEMTREC 800-424-9300
INTERNATIONAL + 01-703-527-3887
Date of Preparation: February 1, 2016 **Version #:** 1.0

Section 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL ACCORDING TO OSHA HAZCOM 2012

Hazard class

Not controlled under OSHA HazCom 2012.

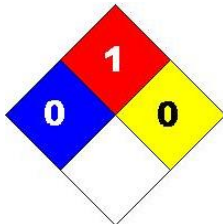
2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM 2012

Hazard Pictogram: Not applicable.
Signal Word: Not applicable.
Hazard Statement: Not applicable.
Prevention: Not applicable.
Response: Not applicable.
Storage: Not applicable.
Disposal: Not applicable.

2.3 ADDITIONAL INFORMATION

Hazards not otherwise classified: Not applicable.
50.2 % of the mixture consists of ingredient(s) of unknown acute toxicity.

Mexico Classification:



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Blue = Health Red = Flammability Yellow = Reactivity White = Special

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

WHMIS Classification(s):

Not controlled.

WHMIS Hazard Symbols: Not applicable.

WHMIS Signal Word: Not applicable.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

| Ingredient | UN # | H / F / R / * | CAS No | Wt. % |
|--------------|--------|---------------|---------|-------|
| Formaldehyde | UN2209 | 3/2/0 | 50-00-0 | < 0.1 |

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

* Per NOM-018-STPS-2000

Section 4: FIRST- AID MEASURES

4.1 DESCRIPTION OF THE FIRST AID MEASURE

Eye: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.

Skin: In case of contact, immediately flush skin with plenty of water. Call a physician if irritation develops and persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention.

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 immediate medical advice/attention.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Skin: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Inhalation: May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed. May cause depression of central nervous system, nausea or vomiting.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

Note to Physicians: Symptoms may not appear immediately.

Specific Treatments: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

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Section 5: FIRE-FIGHTING MEASURES

5.1 FLAMMABILITY

Flammability: Not flammable by WHMIS/OSHA criteria.

5.2 EXTINGUISHING MEDIA

Suitable Extinguishing Media: Powder, water spray, foam, carbon dioxide.

Unsuitable Extinguishing Media: None known.

5.3 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

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

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

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

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Avoid any contact with the skin and eyes.

6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

Methods 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.

Section 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Handling: Avoid contact with skin and eyes. Do not swallow. Avoid breathing vapour or mist. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking. (See section 8)

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage: Keep out of the reach of children. Keep container tightly closed. (See section 10)

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Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Exposure Guidelines

| Occupational Exposure Limits | | |
|------------------------------|----------|-----------|
| Ingredient | OSHA-PEL | ACGIH-TLV |
| Formaldehyde | 0.75 ppm | 0.3 ppm |

8.2 EXPOSURE CONTROLS

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

8.3 INDIVIDUAL PROTECTIVE MEASURES

Personal Protective Equipment:

Eye/Face Protection: Safety glasses or goggles are recommended when using product.

Skin Protection:

Hand Protection: Wear suitable gloves.

Body Protection: Wear suitable protective clothing.

Respiratory Protection: Wear suitable respiratory equipment.

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|----------------|
| Appearance: | Not available. |
| Color: | Not available. |
| Odor: | Not available. |
| Odor Threshold: | Not available. |
| Physical State: | Liquid. |
| pH: | Not available. |
| Melting Point/Freezing Point: | Not available. |
| Initial Boiling Point and Boiling Range: | Not available. |
| Flash Point: | Not available. |
| Evaporation Rate: | Not available. |
| Flammability: | Not Flammable. |
| Lower Flammability/Explosive Limit: | Not available. |
| Upper Flammability/Explosive Limit: | Not available. |
| Vapor Pressure: | Not available. |
| Vapor Density: | Not available. |

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| | |
|--|----------------|
| Relative Density/Specific Gravity: | Not available. |
| Solubility: | Not available. |
| Partition coefficient: n-octanol/water: | Not available. |
| Auto-ignition Temperature: | Not available. |
| Decomposition Temperature: | Not available. |
| Viscosity: | Not available. |
| Oxidizing Properties: | Not available. |
| Explosive Properties: | Not 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 storage 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

Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.

Symptoms related to physical/chemical/toxicological characteristics:

Eye: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Skin: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Ingestion: May be harmful if swallowed. May cause depression of central nervous system, nausea or vomiting.

Inhalation: May cause respiratory tract irritation.

Acute Toxicity:

| Ingredient | IDLH | LC50 | LD50 |
|--------------|-----------|---|---|
| Formaldehyde | Ca 20 ppm | Inhalation 0.578 mg/L 4 h, rat Inhalation 1000 mg/m ³ 30 min, rat | Oral 500 mg/kg, rat Dermal 270 mg/kg, rabbit |

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| Calculated overall Chemical Acute Toxicity Values | | |
|---|------------------|--|
| LC50 (inhalation) | LD50 (oral) | LD50 (dermal) |
| >20 mg/L 4 h, rat | >2000 mg/kg, rat | >2000 mg/kg, rabbit |
| Ingredient | | Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)* |
| Formaldehyde | | O, G-A2, I-1, N-1, CP65 |

11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

| | |
|---|---|
| Skin Corrosion/Irritation: | Based on available data, the classification criteria are not met. |
| Serious Eye Damage/Irritation: | Based on available data, the classification criteria are not met. |
| Respiratory Sensitization: | Based on available data, the classification criteria are not met. |
| Skin Sensitization: | Based on available data, the classification criteria are not met. |
| STOT-Single Exposure: | Based on available data, the classification criteria are not met. |
| Chronic Health Effects: | |
| Carcinogenicity: | This product is not classified as a carcinogen. |
| Germ Cell Mutagenicity: | This product is not classified as a mutagen. |
| Reproductive Toxicity: | Based on available data, the classification criteria are not met. |
| Developmental: | Based on available data, the classification criteria are not met. |
| Teratogenicity: | Not hazardous by WHMIS/OSHA criteria. |
| Embryotoxicity: | Not hazardous by WHMIS/OSHA criteria. |
| Fertility: | 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. |
| Toxicologically Synergistic Materials: | Not available. |
| Other Information: | Not available. |

Section 12: ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

Acute/Chronic Toxicity: May cause long-term adverse effects in the aquatic environment.

12.2 PERSISTENCE AND DEGRADABILITY

Not available.

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Not available.

12.4 MOBILITY IN SOIL

Not available.

12.5 OTHER ADVERSE EFFECTS

Not available.

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Section 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Disposal Method: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Other disposal recommendations: Not available.

Section 14: TRANSPORT INFORMATION

14.1 UN NUMBER

| DOT | TDG | NOM-004-SCT2-1994 |
|----------------|----------------|-------------------|
| Not regulated. | Not regulated. | Not regulated. |

14.2 UN PROPER SHIPPING NAME

| DOT | TDG | NOM-004-SCT2-1994 |
|-----------------|-----------------|-------------------|
| Not applicable. | Not applicable. | Not applicable. |

14.3 TRANSPORT HAZARD CLASS (ES)

| DOT | TDG | NOM-004-SCT2-1994 |
|-----------------|-----------------|-------------------|
| Not applicable. | Not applicable. | Not applicable. |

14.4 PACKING GROUP

| DOT | TDG | NOM-004-SCT2-1994 |
|-----------------|-----------------|-------------------|
| Not applicable. | Not applicable. | Not applicable. |

14.5 ENVIRONMENTAL HAZARDS

Not available.

14.6 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not available.

14.7 SPECIAL PRECAUTIONS FOR USER

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

Section 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

US: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Mexico: MSDS prepared pursuant to NOM-018-STPS-2000.

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| SARA Title III | | | | |
|----------------|------------------------------|---------------------------|------------------|-------------|
| Ingredient | Section 302 (EHS) TPQ (lbs.) | Section 304 EHS RQ (lbs.) | CERCLA RQ (lbs.) | Section 313 |
| Formaldehyde | 500 | 100 | 100 | 313 |

State Regulations

California Proposition 65:

This product contains Crystalline Silica, Quartz and may also contain trace amounts of other chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Global Inventories:

| Ingredient | Canada DSL/NDSL | USA TSCA |
|--------------|-----------------|----------|
| Formaldehyde | DSL | Yes. |

| NFPA-National Fire Protection Association: | |
|--|---|
| Health: | 0 |
| Fire: | 1 |
| Reactivity: | 0 |

| HMIS-Hazardous Materials Identification System: | |
|---|---|
| Health: | 0 |
| Fire: | 1 |
| Physical Hazard: | 0 |

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65 California Proposition 65

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

- A1 - Confirmed human carcinogen.
- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

- 1 - The agent (mixture) is carcinogenic to humans.
- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

- 1 - Known to be carcinogens.
- 2 - Reasonably anticipated to be carcinogens.

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Section 16: OTHER INFORMATION

Date of Preparation: February 1, 2016

Expiry Date: February 1, 2019

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Revision Date: February 1, 2016

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End of Safety Data Sheet