

#### Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 08/16/2013 Revision date: 4/15/2014 Version: 1.1

#### 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 : Various.

#### 1.3. Details of the supplier of the safety data sheet

Bonsal American, Inc. 8201 Arrowridge Blvd. 28273 Charlotte, NC - USA

T 800-334-0784 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

Serious Eye Irritaiton 2A Carcinogenicity 1A

Specific Target Organ Toxicity After Repeated Exposure 1

#### 2.2. Label elements

#### **GHS-US** labelling

Hazard pictograms (GHS-US)





GHS07 GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : Causes serious eye irritation. May cause cancer. Causes damage to lungs through prolonged or

repeated exposure

Precautionary statements (GHS-US)

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vangurs/spray. Wash hands thoroughly after

and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. If exposed or concerned: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Store locked up. Dispose of contents and container in accordance with all local, regional, national and

international regulations.

#### 2.3. Other hazards

No additional information available.

#### 2.4. Unknown acute toxicity (GHS-US)

14% of the mixture consists of ingredient(s) of unknown acute toxicity.

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable.



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#### Mixture

Name	Product identifier	%	GHS-US classification
Asphalt	(CAS No) 8052-42-4	20 - 40	Carc. 2
Quartz	(CAS No) 14808-60-7	5 - 10	Acute Tox. 4 (Oral) Carc. 1A STOT RE 1
Mica	(CAS No) 12001-26-2	5 - 10	Not classified
Aluminum silicate	(CAS No) 1327-36-2	3 - 7	Skin Irrit. 2 Eye Irrit. 2A
Feldspar	(CAS No) 68476-25-5	1 - 5	Eye Irrit. 2A STOT SE 3
Titanium dioxide	(CAS No) 13463-67-7	0.1 - 1	Acute Tox. 4 (Inhalation) Carc. 2
Carbon black	(CAS No) 1333-86-4	0.1 - 1	Carc. 2
Hydrogen chloride	(CAS No) 7647-01-0	0.1 - 1	Acute Tox. 3 (Inhalation) Skin Corr. 1A

#### **SECTION 4: First aid measures**

#### **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.

#### Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the

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.

#### 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 (show the label or SDS where possible).

## **SECTION 5: Firefighting measures**

#### **Extinguishing media**

Suitable extinguishing media : Treat for surrounding material.

#### Special hazards arising from the substance or mixture

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

#### 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**

#### Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

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

#### 6.1.2. For emergency responders

No additional information available.

#### 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.

#### 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/m³)	0.5 mg/m³

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	(30)/(%SiO <sub>2</sub> + 2) mg/m³ TWA, total dust (250)/(%SiO <sub>2</sub> + 5) mppcf TWA, respirable fraction (10)/(%SiO <sub>2</sub> + 2) mg/m³ TWA, respirable fraction

Mica (12001-26-2)		
USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	20 mppcf

Titanium dioxide (13463-67-7)		
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³

Carbon black (1333-86-4)		
USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	3.5 mg/m³

Hydrogen chloride (7647-01-0)		
USA ACGIH	ACGIH Ceiling (ppm)	2 ppm
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	7 mg/m³
USA OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm

#### 8.2. Exposure controls

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

recommended exposure limits.

Hand protection : Wear suitable gloves.

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

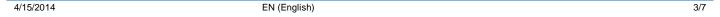
Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. 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 : No data available. Odour : No data available. Odour threshold : No data available. : No data available. Relative evaporation rate (butylacetate=1) : No data available. : No data available. Melting point Freezing point : No data available. Boiling point : No data available. Flash point No data available. : No data available. Self ignition temperature Decomposition temperature : No data available. Flammability (solid, gas) : Not flammable. Vapour pressure : No data available. : No data available. Relative vapour density at 20 °C Relative density : No data available. No data available. Solubility Log Pow No data available. Log Kow : No data available. : No data available. Viscosity, kinematic Viscosity, dynamic : No data available.

#### 9.2. Other information

VOC content : < 50 g/L

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Explosive properties

Oxidising properties

Explosive limits

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.

No data available.No data available.

: No data available.

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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Quartz (14808-60-7)		
LD50 oral rat	500 mg/kg	
Titanium dioxide (13463-67-7)		
LD50 oral rat	> 10000 mg/kg	
Hydrogen chloride (7647-01-0)		
LD50 oral rat	700 mg/kg	
LD50 dermal rabbit	> 5010 mg/kg	
LC50 inhalation rat (ppm)	3124 ppm/1h	
Skin corrosion/irritation	: Based on available data, the classification criteria are not met.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.	
Carcinogenicity	: May cause cancer.	
April 64 (2052 42 4)		
Asphalt (8052-42-4) IARC group	2B	
National Toxicity Program (NTP) Status	5	
	0	
Quartz (14808-60-7)		
IARC group	1	
Titanium dioxide (13463-67-7)		
IARC group	2B	
Carbon black (1333-86-4)		
IARC group	2B	
Hydrogen chloride (7647-01-0)		
IARC group	3	
Reproductive toxicity	: Based on available data, the classification criteria are not met.	
Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.	
Specific target organ toxicity (repeated exposure)	: Causes damage to lungs through prolonged or repeated exposure.	
Aspiration hazard	: Based on available data, the classification criteria are not met.	
Symptoms/injuries after inhalation	: May cause respiratory irritation.	
Symptoms/injuries after skin contact	<ul> <li>May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.</li> </ul>	
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	. May be naminal if Swallowed. May cause stomach distress, hadsea of volithing.	

#### 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.
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#### 12.4. Mobility in soil

No additional information available.

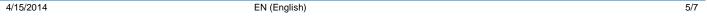
### 12.5. Other adverse effects

No additional information available.

### **SECTION 13: Disposal considerations**

13.1.	Waste treatment	

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

### Asphalt (8052-42-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Aluminum silicate (1327-36-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Feldspar (68476-25-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Titanium dioxide (13463-67-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Carbon black (1333-86-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Hydrogen chloride (7647-01-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 302 (Specific toxic chemical listings)

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 302 Threshold Planning
Quantity (TPQ)

500 (gas)

SARA Section 313 - Emission Reporting 1.0 %

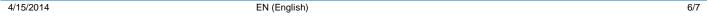
#### 15.2. US State regulations

State or local regulations

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

### 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.
	<ul> <li>1 - Evidence of Carcinogenicity;</li> <li>2 - Known Human Carcinogens;</li> <li>3 - Reasonably anticipated to be Human Carcinogen;</li> <li>4 - Substances delisted from report on Carcinogens;</li> <li>5 - Twelfth Report - Items under consideration.</li> </ul>





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### **SECTION 16: Other information**

Date of issue 08/16/2013 Revision date: 04/15/2014

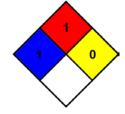
SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom Data sources

EN (English)

1 - Exposure could cause irritation but only minor residual injury even if no treatment is given. NFPA health hazard

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

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