

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

	ubstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form Product name & code	: Mixture : 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 su	ubstance or mixture and uses advised against
Use of the substance/mixture	: Various.
1.3. Details of the supplier of the safe	ety data sheet
Bonsal American, Inc. 8201 Arrowridge Blvd. 28273 Charlotte, NC - USA T 800-334-0784 Tech Service: Monday - Fric	day; 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 of	
	T HIAKUTO
GHS-US classification Serious Eye Irritaiton 2A Carcinogenicity 1A Specific Target Organ Toxicity After Repeated	d 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/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) o	
SECTION 3: Composition/informa	
3.1. Substances	
Not applicable.	



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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
The exact percentage (concentration) of composition h	as been withheld as a trade secret in accordar	nce with paragraph (i) of	§1910.1200.
SECTION 4: First aid measures			
.1. Description of first aid measures			
irst-aid measures after inhalation	: If breathing is difficult, remove victim t breathing. Get medical advice/attentic		at rest in a position comfortable fo
irst-aid measures after skin contact	: If irritation occurs, flush skin with plen	ty of water. Get medi	cal attention if irritation persists.
irst-aid measures after eye contact	: In case of contact, immediately flush e do, remove contact lenses, if worn. If		
irst-aid measures after ingestion	: If swallowed, do NOT induce vomiting anything by mouth to an unconscious	unless directed to d	o so by medical personnel. Never
.2. Most important symptoms and effect			
ymptoms/injuries after inhalation	: May cause respiratory irritation.		
ymptoms/injuries after skin contact	: May cause skin irritation. Symptoms r skin.	nay include redness,	drying, defatting and cracking of t
ymptoms/injuries after eye contact	: Causes serious eye irritation. Sympto tear production, with marked redness		
ymptoms/injuries after ingestion	: May be harmful if swallowed. May cau	use stomach distress	, nausea or vomiting.
.3. Indication of any immediate medical	attention and special treatment neede	d	
symptoms may not appear immediately. In case ossible).	of accident or if you feel unwell, seek me	dical advice immedia	tely (show the label or SDS where
SECTION 5: Firefighting measures			
.1. Extinguishing media			
uitable extinguishing media	: Treat for surrounding material.		
.2. Special hazards arising from the sub	stance or mixture		
ïre hazard	: Products of combustion may include,	and are not limited to	: oxides of carbon.
.3. Advice for firefighters			
Protection during firefighting	: Keep upwind of fire. Wear full fire figh protection (SCBA).	ting turn-out gear (ful	l Bunker gear) and respiratory
SECTION 6: Accidental release meas	sures		
.1. Personal precautions, protective equ	ipment and emergency procedures		
.1.1. For non-emergency personnel			
Protective equipment	: Use personal protection recommende unnecessary and unprotected person		e the hazard area and deny entry
.1.2. For emergency responders lo additional information available.			
.2. Methods and material for containme	nt and cleaning up		
for containment	: Contain and/or absorb spill with inert i container. Do not flush to sewer or all		
	Protective Equipment (PPE).		
flethods for cleaning up	: Scoop up material and place in a disp	osal container.	
lethods for cleaning up	: Scoop up material and place in a disp	osal container.	

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6.3. Reference to other	sections	
No additional information availa	able.	
SECTION 7: Handling a	Ind storage	
7.1. Precautions for safe	e handling	
Precautions for safe handling	using do not eat, drink ou safety precautions have required. Do not breathe	and eyes. Do not swallow. Handle and open container with care. When r smoke. Obtain special instructions before use. Do not handle until all been read and understood. Use personal protective equipment as e dust/fume/gas/mist/vapours/spray. Wash hands before eating, drinking, ntaminated clothing before reuse.
	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	i de la construcción de la constru	
Asphalt (8052-42-4)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.5 mg/m³
Quartz (14808-60-7) USA ACGIH		0.025 mg/m ³
USA OSHA	ACGIH TWA (mg/m ³)	<u> </u>
	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
Mica (12001-26-2)		
USA ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	20 mppcf
Titanium dioxide (13463-67-	-7)	
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m ³
Carbon black (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
Hydrogen chloride (7647-01 USA ACGIH	ACGIH Ceiling (ppm)	2 ppm
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	7 mg/m ³
USA OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm
8.2. Exposure controls		
Appropriate engineering contro	recommended exposure	e to keep exposures (airborne levels of dust, fume, vapor, etc.) below limits.
Hand protection Eye protection	: Wear suitable gloves. : Safety glasses or goggles are recommended when using product.	
Skin and body protection	: Wear suitable protective	
Respiratory protection		ntilation, wear suitable respiratory equipment.
Environmental exposure contro		ommunity environmental protection thresholds.
Other information		nk where material is handled, processed or stored. Wash hands carefully g. Handle according to established industrial hygiene and safety



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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and		
Physical state	: Liquid.	
Colour	: No data available.	
Odour	: No data available.	
Odour threshold		
	: No data available.	
pH	: No data available.	
Relative evaporation rate (butylacetate=1)	: No data available.	
Melting point	: No data available.	
Freezing point	: No data available.	
Boiling point	: No data available.	
Flash point	: No data available.	
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	: No data available.	
Solubility	: No data available.	
Log Pow	: No data available.	
Log Kow	: No data available.	
Viscosity, kinematic	: No data available.	
Viscosity, dynamic	: No data available.	
Explosive properties	: No data available.	
Oxidising properties	: No data available.	
Explosive limits	: No data available.	
9.2. Other information		
VOC content	: <50 g/L	
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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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.	
Asphalt (8052-42-4)		
IARC group	2B	
National Toxicity Program (NTP) Status	5	
Quartz (14808-60-7)		
IARC group	1	
Titanium dioxide (13463-67-7)		
IARC group	28	
Carbon black (1333-86-4)		
IARC group	28	
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	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.	
Symptoms/injuries after eye contact	: Causes serious eye irritation.Symptoms may include discomfort or pain, excess blinking and tea 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® Guardia Persistence and degradability	IN PM / GemSeal® Guardian NQ Not established.	
12.3. Bioaccumulative potential		
GemSeal® Guardian AE / GemSeal® Guardia Bioaccumulative potential	n PM / GemSeal® Guardian NQ Not established.	
12.4. Mobility in soil		
No additional information available.		
12.5. Other adverse effects		
No additional information available.		
SECTION 13: Disposal consideration	s	
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	
Asphalt (8052-42-4)	
Listed on the United States TSCA (Toxic Substan	ces Control Act) inventory
Quartz (14808-60-7)	
Listed on the United States TSCA (Toxic Substan	ces Control Act) inventory
Aluminum silicate (1327-36-2)	
Listed on the United States TSCA (Toxic Substan	ces Control Act) inventory
Feldspar (68476-25-5)	
Listed on the United States TSCA (Toxic Substan	ces Control Act) inventory
Titanium dioxide (13463-67-7)	
Listed on the United States TSCA (Toxic Substan	ces Control Act) inventory
Carbon black (1333-86-4)	
Listed on the United States TSCA (Toxic Substan	ces Control Act) inventory
Hydrogen chloride (7647-01-0)	
Listed on the United States TSCA (Toxic Substan Listed on SARA Section 302 (Specific toxic chem	ical listings)
Listed on SARA Section 313 (Specific toxic chem SARA Section 302 Threshold Planning	500 (gas)
Quantity (TPQ)	
SARA Section 313 - Emission Reporting	1.0 %
15.2. US State regulations	
GemSeal® Guardian AE / GemSeal® Guardian F	
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.
	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	: 08/16/2013
Revision date:	: 04/15/2014
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

