

**SECTION 1 : Identification of the substance/preparation and of the company / undertaking****(a) GHS product identifier**

Ultravest Universal Investment Formula (Powder) and  
Perfect Press Investment (Powder)

**(e) Emergency phone number**

CHEMTREC 1-800-424-9300

**(b) Other means of identification**

NA

**(c) Recommended use of the chemical and restrictions on use**

For professional dental applications.

**(d) Supplier's details**

Garreco, LLC  
430 Hiram Road  
Heber Springs, AR 72543  
Phone: (800) 334-1443

**SECTION 2: Hazards identification****(a) GHS classification of the substance/mixture****Substance Name**

1 Quartz and cristobalite powder, ammoniumphosphate and magnesium oxide

**(b) Label Elements****Hazard statements**

Harmful if inhaled.

**Precautionary statements**

Do not breathe dust.

**Response**

**IF ON SKIN:** Wash with plenty of water. If skin irritation or rash occurs: Get medical attention.

**IF INHALED:** Remove to fresh air and keep comfortable for breathing. Contact a doctor if you feel unwell.

**IF SWALLOWED:** Rinse mouth. DO NOT induce vomiting. Drink large amounts of water.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

**Storage**

Store in a dry, well-ventilated area.

**Disposal**

Dispose of contents/container in accordance with local/regional/national regulations.

**Hazard Symbol(s)**

Health hazard

**Signal Word(s)**

Danger

**(c) Other hazards which do not result in classification**

Harmful to health on inhalation; contains silicogenous dust, effect by inhalation may be lung disease.

**SECTION 3: Composition/information on ingredients****(a) Chemical(s) Identity:****(b) Common Name:**

1 Quartz  
2 Cristobalite

**(c) CAS No.**

14808-60-7  
14464-46-1

**Mixture:****Concentration (Percentage)**

50.0-100.0%  
50.0-100.0%

**SECTION 4: First-aid measures****(a) Description of first aid measures:**

**IF ON SKIN (or hair):** Wash with plenty of water. If skin irritation or rash occurs: Get medical attention.

**IF INHALED:** Remove to fresh air and keep comfortable for breathing. Contact a doctor if you feel unwell.

**IF SWALLOWED:** Rinse mouth. DO NOT induce vomiting. Drink large amounts of water.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

**(b) Most important symptoms and effects, both acute and delayed:**

**IF INHALED:** Coughing, wheezing, shortness of breath, silicosis.

**IN EYES:** Irritation and redness.

**(c) Indication of any immediate medical attention and special treatment needed:**

**IF INHALED:** Coughing, wheezing, shortness of breath.

**IN EYES:** Irritation and redness.

**SECTION 5: Fire-fighting measures**

- (a) **Suitable extinguishing media:**  
No restrictions.
- (b) **Special hazards arising from the chemical or mixture:**  
None. The product is not flammable.
- (c) **Special protective equipment and precautions for fire-fighters:**  
None.

**SECTION 6: Accidental release measures**

- (a) **Personal precautions, protective equipment and emergency procedures:**  
Wear appropriate respiratory protection. Wear head protection and working clothes and wash regularly.
- (b) **Environmental precautions:**  
NA
- (c) **Methods and material for containment and cleaning up:**  
Absorb with suitable dust aspirator or moisten with water and remove mechanically.

**SECTION 7: Handling and storage**

- (a) **Precautions for safe handling:**  
Keep containers tightly closed. Follow standard hygiene precautions. Ensure that working area is well ventilated. Open sachet with scissors to prevent dust.
- (b) **Conditions for safe storage, including any incompatibilities:**  
Store in dry premises in closed, original containers.

**SECTION 8: Exposure controls/Personal protection**

(a) **Control parameters:**

Chemical	ACGIH	OSHA
	TLV	PEL TWA
1 Quartz	1.5 mg/m <sup>3</sup>	ND
2 Cristobalite	1.5 mg/m <sup>3</sup>	ND

- (b) **Appropriate Engineering Controls:**  
Use dust measures to ensure ventilation. Use suction at the workplaces.
- (c) **Individual protection measures:**  
**RESPIRATORY:** Use appropriate respiratory protection, e.g. use fine dust mask P2.

**SECTION 9: Physical and chemical properties**

- (a) **Appearance:** White powder.
- (b) **Odor:** Odorless
- (c) **Odor threshold:** NA
- (d) **pH:** ~6
- (e) **Melting point / freezing point:** ND
- (f) **Initial boiling point and boiling range:** ND
- (g) **Flash point:** ND
- (h) **Evaporation rate (BuAc=1):** ND
- (i) **Flammability:** Not flammable
- (j) **Upper/lower flammability or explosive limits:** ND
- (k) **Vapor Pressure:** ND
- (l) **Vapor density:** ND
- (m) **Relative density:** 1.100 - 1.200 kg/m<sup>3</sup>
- (n) **Solubility:** Insoluble in bound form
- (o) **Partition coefficient: n-octanol/water:** ND
- (p) **Auto-ignition temperature:** ND
- (q) **Decomposition temperature:** 1400° C with fission of small quantities of ammonia
- (r) **Viscosity:** ND

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**Date Prepared:****7/7/2015****SECTION 10: Stability and reactivity**

- |  |  |
|--|--|
| <b>(a) Reactivity:</b>                         | Low  |
| <b>(b) Chemical stability:</b>                 | Stable   |
| <b>(c) Possibility of hazardous reactions:</b> | Low  |
| <b>(d) Conditions to avoid:</b>                | Avoid contact between unbound powder and water prior to use.   |
| <b>(f) Hazardous decomposition products:</b>   | Formation of ammonia on heating in a pre-heated oven at approx. 250° C, decomposition with fissure of approx. 1% weight ammonia. |

**SECTION 11: Toxicological information**

- |  |  |
|--|--|
| <b>Acute toxicity</b>                    | ND   |
| <b>Skin corrosion/irritation</b>         | May cause skin irritation.                           |
| <b>Serious Eye Damage / Irritation</b>   | Low risk of serious eye damage and irritation.       |
| <b>Respiratory or skin sensitization</b> | Do not breathe dust. Low risk of skin sensitization. |
| <b>Germ cell mutagenicity</b>            | ND   |
| <b>Carcinogenicity</b>                   | ND   |
| <b>Reproductive toxicity</b>             | ND   |
| <b>STOT-single exposure</b>              | ND   |
| <b>STOT-repeated exposure</b>            | ND   |
| <b>Aspiration Hazard</b>                 | Do not breath dust. May cause lung irritation.       |

- (a) Exposure route:** Lungs or eyes.
- (b) Symptoms related to the physical, chemical and toxicological characteristics:**  
Lung and eye irritation.
- (c) Delayed and immediate effects and also chronic effects from short and long tem exposure:**  
Harmful to health on inhalation; contains silicogenous dust, long-term effect by inhalation can trigger lung disease.
- (d) Numerical measures of toxicity:** ND

**SECTION 12: Ecological information**

- |   |    |
|---|----|
| <b>(a) Ecotoxicity:</b>                   | ND |
| <b>(b) Persistence and degradability:</b> | ND |
| <b>(c) Bioaccumulative potential</b>      | ND |
| <b>(d) Mobility in soil:</b>              | ND |
| <b>(e) Other adverse effects:</b>         | ND |

**SECTION 13: Disposal considerations****Product:****Recommendation**

Bind powder with water. Any bound mass can be disposed of together with refuse in accordance with local regulations.  
Moisten empty sachets with water in order to bind residual material.

**SECTION 14: Transport information**

- |                                       |    |
|---------------------------------------|----|
| <b>(a) UN Number</b>                  | NA |
| <b>(b) UN Proper shipping name</b>    | NA |
| <b>(c) Transport hazard class(es)</b> | NA |
| <b>(d) Packing Group</b>              | NA |
| <b>(e) Environmental hazards</b>      | NA |
| <b>(f) Transport in bulk</b>          | NA |
| <b>(g) Other Information</b>          | NA |

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**SECTION 15: Regulatory information**

<b>SARA Reporting Requirements:</b>	None
<b>SARA Threshold Planning Quantity:</b>	NA
<b>TSCA Inventory Status:</b>	NA
<b>Other Federal Requirements:</b>	NA
<b>Other Canadian Regulations:</b>	NA
<b>State Regulatory Information:</b>	NA

**SECTION 16: Other information**

**PREPARED BY:** Kathryn Harris  
**GAR QMS SDS REFERENCE:** A037

**HAZARDOUS MATERIAL IDENTIFICATION (HMIS) RATING:**

Health	1
Flammability	0
Reactivity	0
Other	B

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATING:**

Health	1
Flammability	0
Reactivity	0
Other	NA

**REVISION NUMBER:** 150707

**CHANGES FROM PREVIOUS VERSION:** Formatting and added NFPA rating.

**ABBREVIATIONS**

NA Not Applicable	LD Lethal Dose
ND Not Determined	TC Toxic Concentration
NE Not Established	TD Toxic Dose
ppm parts per million	BOD Biological Oxygen Demand
G Gallon	COD Chemical Oxygen Demand
mg Milligram	Lo Lowest
L Liter	ThOD Theoretical Oxygen Demand
gm Gram	TLm Threshold Limit
mol Mole	IC Inhibitory Concentration
kg Kilogram	DOC Dissolved Organic Carbon
μ Micro	H Hours
mm Millimeter	M Months
p Pico	D Days
Pa Pascals	Y Years
c cento	W Weeks
LC Lethal Concentration	NOAEL No Observed Adverse Effect Level
ACGIH American Conference of Governmental Industrial Hygienist	PEL Permissible Exposure Limit
NDSL Canadian Non-domestic Substance List	TLV Threshold Limit Value
IARC International Agency for Research for Cancer	CPR Controlled Product's Regulation
NOEL No Observed Effect Level	DSL Canadian Domestic Substances List
OSHA Occupational Safety and Health Administration	

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THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200) OF CHEMICALS AND THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING REVISION 5. ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED.

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