

MATERIAL SAFETY DATA SHEET

1. Identification of the substance / Preparation And Company

1.1 Identification of substance or preparation:

Commercial Product Name: **GALLEON EARTH V2**

1.2 Company / Undertaking Identification:

Manufacturer / Distributor: Manufacturer
Address: **Ashapura Volclay Limited**
278, Jeevan Udyog Building, 3rd Floor,
D. N. Road, Fort, Mumbai 400 001, India
Telephone: +91-22-56651700
Fax: +91-22-2206 3288 / 2207 9395

2. Composition / Information on Ingredients

2.1 Chemical Characterization (substance): Bentonite, acid-leached

2.2 Chemical Formula: $\text{SiO}_2 \cdot x\text{Al}_2\text{O}_3 \cdot n\text{H}_2\text{O}$

CAS Reg No.: 70131-50-9

TSCA: The ingredients of this material are on the TSCA inventory list edited in 1991.

Dg Class & UN No.: Not Listed

Hazardous Ingredients: Crystalline Silica (Quartz) - 1-3%
CAS-No. - 14808-60-7
Respirable Dust - 0.1 mg/m³
Limit values determined acceptable by ACGIH and OSHA for respirable particles and/or total dust in the work place.

3. Hazards Identification

3.1 Effects of a single (Acute) Overexposure:

Inhalation: Excessive exposure may cause respiratory irritation.
Skin Contact: Frequent or prolonged use may cause skin irritation. May cause drying or flaking of skin.
Swallowing: No
Eye Contact: May cause slight irritation.

3.2 Effects of Repeated (Chronic) Overexposure: No specific information is available, however, if inhaled dust of the material in large quantities for a long period of time, may cause pneumoconiosis.

3.3 Other effects of Overexposure:

Breathing of Excessive Dust:	May cause irritation to nasal respiratory passages
Irritancy of Material:	N.A.
Sensitisation:	N.A.
Synergistics Materials:	N.A.

3.4 Medical Conditions Aggravated by Overexposure: Respiratory Disorders

3.5 Significant Laboratory data with possible relevance to Human Hazard Evaluation:

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E-mail:	be@ashapura.com
Website:	www.avlgalleon.com

3.6 Carcinogenicity:

NTP: Silica, crystalline (Respirable Size), reasonably anticipated to be human carcinogens (8th Annual Report)

IARC MONOGRAPHS: Silica, crystalline: Group1, IARC Monographs (Vol. 68:1997)

OSHA REGULATED: Not regulated

4. First Aid Measures

4.1 Inhalation:	Remove to fresh air. Blow nose and rinse mouth if necessary.
4.2 Skin Contact:	Wash with soapy water and wash off in flowing water or shower. If irritation persists, seek medical attention.
4.3 Swallowing:	Blow nose and rinse mouth if necessary.

4.4 Eye Contact: Irrigate with flowing water immediately and continuously for at least 15 minutes. If necessary, get medical attention.

4.5 Notes to physician: None

5. Fire Fighting Measures

5.1 Flash Point (Test method): N. A. (non – flammable)

5.2 Auto Ignition Temperature: N. A

5.3 Flammable Limits in Air, % by Volume:

a. Lower Expl. Limit: N. A

b. Upper Expl. Limit: N. A

5.4 Extinguishing Media: Use extinguishing media appropriate for surrounding fire

5.5 Special Fire Fighting Procedures / Caution: Positive pressure, self-contained breathing apparatus. Wear full protective clothing

5.6 Unusual Fire and Explosion Hazards: Not a fire or explosion hazard.

5.7 Hazardous Combustion Products: None

6. Accidental Release Measures

6.1 Steps to be taken if Material is released or spilled: Sweep up or otherwise vacuum released or spilled material by a vacuum cleaner. Take all additional action necessary to prevent and remedy the adverse effects of release or spill.

Personal Precautions: Wear appropriate personal protective equipment

Environmental Precautions: None

6.2 Wasted Disposal Method / Methods for cleaning up:

Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environmental agency for specific rules).

7. Handling and Storage

7.1 Precautions to be taken in Storage: Avoid excessive stacking and soaking of packages to prevent any damage. Store the material in a dry/cool place. Provide for good ventilation of the room.

7.2 Precautions to be taken in Handling: Avoid contact with eyes. Avoid prolonged or frequently repeated skin contact.

8. Exposure Controls / Personal Protection

8.1 Ventilation / Engineering Controls:

Local Exhaust: Required

Mechanical (general): N.A

Special: N.A

Other: N.A

8.2 Respiratory Protection: Wear a approved Dust Mask

8.3 Skin Protection: Wear impervious/chemical resistant gloves to prevent skin exposure.

8.4 Eye Protection: Wear Safety Glasses, Splash Goggles or face shield.
Contact lenses should not be worn.

8.5 Other Protective Equipment: Not Required.

9. Physical and Chemical Properties

9.1 Molecular weight: N/D

9.2 Specific Gravity: 2.5

9.3 Gas Density: N/D

9.4 Vapour Pressure: N/D

9.5 Solubility in water: Water Insoluble

9.6 Percent Volatiles by volume: Least

9.7 Evaporation Rate: N/D

9.8 pH: 2.5 – 3.5

9.9 Sublimation Point: N/D

9.10 Appearance, Odor and state: Greyish white Granular, Odourless.

10. Stability and Reactivity

10.1 Stability: Stable.

10.2 Incompatibility (materials to avoid): Hydrofluoric Acid and strong alkali.

10.3 Hazardous Decomposition Products: None

10.4 Hazardous Polymerization: Will not occur.

10.5 Conditions to Avoid: Heat, flames.

11.Toxicological Information

No specific information is available, however, if inhaled dust of the material in large quantities for a long period of time, may cause pneumoconiosis.

Inhalation Effects:	Crystalline silica has shown to cause Silicosis and Lung cancer. Crystalline silica only causes these conditions when inhaled.
Skin Contact:	Prolonged skin contact may lead to drying or cracking of the skin due to the absorption of the moisture.
Eye Contact:	As with any dust, will be irritating to the eyes due to physical abrasion.
Medical Conditions Aggravated:	Respiratory Disorders.
Occupational Exposure Limits:	Studies have shown that the crystalline silica is evenly distributed throughout all particle sizes of this product. Keep dust levels below permissible limits.
ACGIH TLV:	0.1 mg/m ³ as crystalline silica
ACGIH STEL:	N/D
OSHA PEL (respirable):	N/D
OSHA PEL (total dust):	N/D

12.Ecological Information

12.1 Mobility:	N.A
12.2 Persistence and degradability:	N. A
12.3 Bioaccumulations:	N. A
12.4 Ecotoxicity:	N. A

13.Disposal Considerations

Waste Disposal Method:	Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environmental agency for specific rules).
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14. Transport Information

14.1 DOT / IMO Shipping Name: N. A
14.2 Hazard Class: Not Regulated
14.3 Identification Number: N. A
14.4 Product RQ: N. A
14.5 Shipping Label (s): N. A
14.6 Placard (when required): N. A
14.7 Special Shipping Information: N. A

15. Regulatory Information

OSHA Hazard Communication categories: Irritant.

16. Other Information

16.1 Additional Safety and Health Hazards: Nothing particular
16.2 Notes to Physician: None
16.3 Protective Clothing and Equipment: Wear long protective clothing with an apron to keep dust off clothes.
16.4 Other Protective Equipment: Wear appropriate clothing to prevent skin exposure.
16.5 Other Hazardous Conditions of Handling
Storage and Use: Avoid prolonged exposure to dust, esp. when loading. Masks are recommended.
16.6 Revision Date: 10th February 2006
16.7 Revision Number: 2

Place: Mumbai

Signature: