

MATERIAL SAFETY DATA SHEET

1. Identification of the substance / Preparation And Company

1.1 Identification of substance or preparation:

Commercial Product Name: **V2 Granules**

1.2 Company / Undertaking Identification:

Manufacturer / Distributor: Manufacturer
Address: **Ashapura Perfoclay Ltd.**
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:

Village Ier, Near Bhujodi, Off Anjar-Bhuj Highway, Bhuj-Kutch-370 020. (Gujarat)
Tel: +91-832-240304/240302/242032/39245 Fax: +91-2832-240303 E-mail : avlbhuj@ashapura.com
Regd Office: Jeevan Udyog Building, 3rd Floor, 278, D.N. road, Fort, Mumbai - 400 001. (India)
Tel: +91-22-6665 1700 Fax: +91-22-2207 9395 / 2207 4452 E-mail: be@ashapura.com

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.
Synergistic Materials:	N.A.

3.4 Medical Conditions Aggravated by Overexposure: Respiratory Disorders

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

Registered Office:	Ashapura Volclay Ltd. 278, Jeevan Udyog Building, 3 rd Floor, D.N. Road, Fort, Mumbai 400 001, India
Telephone:	+91-22-56651700
Fax:	+91-22-2206 3288/ 2207 9395
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: Group 1 IARC Monographs (Vol. 68:1997)

OSHA REGULATED: Not regulated

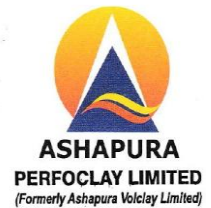
4. First Aid Measures:

- 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:	2.1 TO 2.25
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:	3.0 TO 5.0
9.9 Sublimation Point:	N/D
9.10 Appearance, Odour and state:	Greyish white, light yellowish brown Granules, 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/m³ 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:

13.1 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).

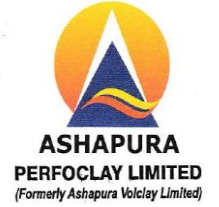
14. Transport Information:

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.
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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:	December 2014
16.7 Revision Number:	3



Date: February 2017
Place: Mumbai
Signature:

Village Ier, Near Bhujodi, Off Anjar-Bhuj Highway, Bhuj-Kutch-370 020. (Gujarat)
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