

MATERIAL SAFETY DATA SHEET

Product Name: ACTAL

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Chemical description: Montmorillonite

Manufacturer: Ashapura Perfoclay Limited
3rd Floor, Jeevan Udyog Building,
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2. HAZARDS IDENTIFICATION (R-Phrases):

Environmental Hazards: Not defined as environmental hazard

Health Effects:

General: Low irritant – low toxicity. It is not readily absorbed through the skin or gastrointestinal tract.

Eye R36- Irritating to eyes: Low to moderate irritant. Dust may cause eye discomfort and irritation, pain, redness and conjunctivitis.

Skin: Low irritant. Prolonged and repeated exposure to dust/power may results irritation due to mechanical action.

Inhaled: R48/20 (Harmful: danger of serious damage to health by prolonged exposure through inhalation) Inhalation of high dust concentrations may cause coughing and mild irritation. Repeated inhalation of dusts containing crystalline silica over time can cause

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progressive fibrotic lung disease (silicosis) and increase the risk of developing respiratory cancer. Lung damage may progress even if the worker is removed from exposure. Silicosis can result in death from cardiac failure or the destruction of lung tissue. The extent and severity of lung damage depends on a variety of factors including particle size, percentage of silica, natural resistance, dust concentration, and length of exposure.

Swallowed:R22 – Harmful if swallowed.

NFPA Rating: Flammability = 0 (Not flammable)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name of the substance: Montmorillonite

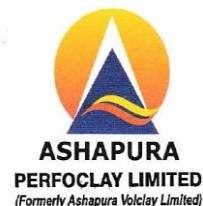
Synonyms: Acid-leached Bentonite

Chemical Name	CAS No.	Content (Wt%)
Montmorillonite	70131-50-9	83-85
Quartz	14808-60-7	8-9
Anhydrous Calcium Sulphate	7778-18-9	2-3
Anatase	1317-70-0	2-3

Physical Description/Properties

Appearance and Odour:	Grey/Pink granular powder
Solubility in Water:	Nil
Vapour Density:	Not applicable
Vapour Pressure:	Not applicable
Boiling Point:	Not available
Bulk Density:	0.9 g/cc
Flash point:	Not relevant
Flammability:	Non-flammable
Melting point:	Not available
Volatile component:	Nil

4. FIRST AID MEASURES



Eye: (Dust exposure): Flush well under running water. If irritation develops, seek medical attention.

Skin: Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.

Inhalation (Dust exposure): If over exposure occurs, leave exposure area immediately. Seek medical attention if symptoms develop.

Swallowed: Swallowing is considered an unlikely mode of entry in commercial/industrial environments. However, if large quantities of dust are ingested, seek medical advice.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special Protective Equipment: Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal Precaution: Wear a dust mask if dust is generated above exposure limits.

Environmental precautions: No special environmental precautions required.

Methods for cleaning up: Avoid the generations of dust particulates using a vacuum cleaner with a HEPA filter. Reduce airborne dust and prevent scattering by moistening with water.

7. HANDLING AND STORAGE

Handling : keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage: No special restrictions on storage with other products. Guard against accumulation of this material. Keep in cool, well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional exposure data: Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

Engineering measures to If material is ground, cut, or used any operation which may reduce exposure generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn.

Personal protective equipment

Respiratory Protection: Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.

Hand Protection: Chemical-resistant protective gloves according to EN 374, EN 388, and EN420.

Eye protection: Avoid contact with eyes. Wear dust goggles. Eye wash fountain is recommended.

Skin body protection : No special protective equipment required.

Environmental exposure Controls: No special measures required.

Hygiene measures: Use good industrial hygiene practices in handling this material.

Control parameters: Respirable dust function.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Solid

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Form	Granules
Color	Gray to off white
Odour	None
Boiling Point	Not available
Flammability	Non-inflammable
Flammability limits in air, Upper, %by volume	Non-inflammable
Flammability limits in air, Lower, %by volume	Non-explosive
Vapor pressure	Not available
Solubility(water)	Negligible
Auto-ignition temperature	Non-ignitable
Specific gravity	2.5
Percent volatile	Nil

10. STABILITY AND REACTIVITY

Conditions to avoid	None known
Hazardous decomposition Products	None known

Stability Stable at normal condition

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Materials to avoid	None known
Hazardous polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Routes of exposure Inhalation, Eye contact, Skin contact

Irritation, Sensitization, Other data Toxicology

Eye irritation	Result: Moderately irritating to mucous membranes.
Sensitization	Result not sensitizing
Repeated dose toxicity	No data available
Human experience	Dust may render the skin dry

Chronic toxicity: Prolong exposure to silica & its polymorphs may cause silicosis.

According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the regulatory occupational exposure limits. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

12. ECOLOGICAL INFORMATION

Ecotoxicity: This material is not expected to be harmful to aquatic life.

Environmental effects: Ecological injuries are not known or expected under normal use.

13. DISPOSAL CONSIDERATIONS

Disposal instruction: Dispose in accordance with all applicable local

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regulations. Material should be recycled if possible.

14. TRANSPORT INFORMATION

	ADR	Not regulated as dangerous goods
I	ATA	Not Not regulated as dangerous goods
	IMDG	Not regulated as dangerous goods

15. REGULATORY INFORMATION

Follow local regulatory instructions.

16. OTHER INFORMATION

Recommended restrictions: workers (and your customer or users in the case of resale) should be informed of the potential presence of respirable dust and respsssilable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

Further information: This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Disclaimer: The information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

Third party materials: Insofar as materials not manufactured or supplied by this manufacturer are used in conjunction with, or instead of this product, it is the responsibility of the customer to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of this product in conjunction with materials from another supplier.