

## MATERIAL SAFETY DATA SHEET

**Not classified as hazardous according to criteria of Worksafe Australia**

### 1. Product Identification

Trade Name : **Absorbent 5000**

Chemical Name : Attapulgit, Palygorskite

Family Name : Fullers Earth Mineral Group

Formulation :  $([\text{OH}_2]_4[\text{OH}]_2 \text{Mg}_3 \text{Si}_8 \text{O}_{20} 4\text{H}_2\text{O})$   
With partial replacement of Magnesium by Calcium, Aluminium and Iron

### 2. Product Ingredients

<i>Cas No.</i>	<i>Chemical Name</i>
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12174-11-7	Hydrated Magnesium Silicate as a complex clay mineral known as Attapulgit, Palygorskite.
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The following analyses do not exist as free items but as part of the above complex :

Silicon Dioxide	-	59.8%
Aluminium Oxide	-	12.6%
Magnesium Oxide	-	5.6%
Iron Oxide	-	4.0%
Calcium Oxide	-	2.1%
Potassium Oxide	-	1.8%
Other Oxides	-	2.0%
Loss on Ignition	-	12.1%

### 3. Physical Properties

*Appearance* : Granules, Powder

*Colour* : White to buff/grey

*Solubility in Water* : Almost insoluble

*Specific Gravity* : True SG 2.3 – 2.7  
Apparent SG 0.5 – 0.7

*Percent Volatile* : Nil

*Boiling Point* : Does not boil

## **MATERIAL SAFETY DATA SHEET – Absorbent 5000 (cont.)**

### **4. Flammability and Explosive Properties**

Material is non-flammable and non-explosive.

### **5. Storage and Reactivity**

*Stability* : *Stable*  
*Storage* : *Dry general storage*  
*Reactivity* : *Inert*  
*Hazardous Polymerisation* : *Does not occur*  
*Shelf life* : *Indefinite*

### **6. Health Hazard Data**

<i>Condition</i>	Physical Effects	Treatment
Product in Eye	Physical irritation	Irrigation
Product inhaled	None in moderation	None
Product on skin	None	None
Product ingested (Pharmaceutical grades used as a diahorrea cure)	None	None

### **7. Spillage and Disposal Procedures**

*Spill or Leak* Sweep up and repack  
*Waste Disposal* Landfill (in unused state)

### **8. Handling Information**

*Respirator Protection* Normally nil but if likelihood of dust generation, respirator advisable  
*Goggles* Advisable  
*Gloves* Not required  
*Clothing* No specific protection needed  
*Ventilation* Natural ventilation sufficient

## **MATERIAL SAFETY DATA SHEET – Absorbent 5000 (cont.)**

### **9. User Precautions**

As indicated above, Attapulgit Absorbent requires minimal precautions while being handled or disposed of in its original form, or when used to absorb other non-hazardous substances. However, where Attapulgit is used to absorb hazardous substances or materials, the user must ensure that appropriate handling and disposal procedures are adopted in accordance with Worksafe Australia and EPA requirements.

### **10. Storage after usage Precautions**

Particular care should be taken when storing the mixture of Attapulgit and other substances where the absorbed substance has a risk of spontaneous combustion after being absorbed by a porous medium. Such substances include, but are not limited to, linolenic, linoleic and oleic fatty acids such as tall (pine) oil, linseed oil and other liquids known to contain substantial proportions of these substances. Where such substances are to be absorbed, advice should be sought from the substance supplier in respect to the storage and disposal of the resultant mixture.

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