



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** ATTAPULGITE  
**Version #** 01  
**Revision date** 04-June-2010  
**CAS #** 12174-11-7  
**Synonym(s)** PALYGORSKITE \* PALYGORSKITE (ATTAPULGITE)  
**Company** CETCO  
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## 2. Hazards Identification

### Potential health effects

**Routes of exposure** Inhalation.

**Eyes** Dust or powder may irritate eye tissue.

**Skin** Non-irritating to the skin.

**Inhalation** Repeated or prolonged inhalation may cause toxic effects. For additional information on inhalation hazards, see Section 11 of this safety data sheet.

**Ingestion** No significant adverse effects are expected upon ingestion of the product.

**Target organs** Lungs.

**Chronic effects** This product has the potential for generation of respirable dust during handling and use. Dust may contain respirable crystalline silica. Overexposure to dust may result in pneumoconiosis, a respiratory disease caused by inhalation of mineral dust, which can lead to fibrotic changes to the lung tissue, or silicosis, a respiratory disease caused by inhalation of silica dust, which can lead to inflammation and fibrosis of the lung tissue. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

## 3. Composition / Information on Ingredients

No ingredients are present at or above the minimum concentration specified on the WHMIS Ingredient Disclosure List.

**Composition comments** This product contains naturally occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than 6%. Occupational Exposure Limits for impurities are listed in Section 8.

## 4. First Aid Measures

### First aid procedures

**Eye contact** Flush eyes immediately with large amounts of water. If irritation persists get medical attention.

**Skin contact** No special measures required. Get medical attention if irritation develops or persists.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get medical attention, if needed.

**Ingestion** No special measures required. If ingestion of a large amount does occur, seek medical attention.

**Notes to physician** Provide general supportive measures and treat symptomatically.

## 5. Fire Fighting Measures

**Flammable properties** This material will not burn.

### Extinguishing media

**Suitable extinguishing media** Use any media suitable for the surrounding fires. Dry chemical, CO<sub>2</sub>, water spray or regular foam.

### Explosion data

**Sensitivity to mechanical impact** Not available.

**Sensitivity to static discharge** Not available.

**Hazardous combustion products** None known.

## 6. Accidental Release Measures

**Personal precautions** Wear a dust mask if dust is generated above exposure limits.

**Environmental precautions** No special environmental precautions required.

**Methods for cleaning up** Avoid the generation of dusts during clean-up. Collect dust or 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** Guard against dust accumulation of this material. No special storage conditions required. No special restrictions on storage with other products.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### ACGIH

Impurities	Type	Value	Form
INERT OR NUISANCE DUST (SEQ250)	TWA	10 mg/m <sup>3</sup>	Inhalable particles.
QUARTZ (14808-60-7)	TWA	3 mg/m <sup>3</sup> 0.025 mg/m <sup>3</sup>	Respirable particles. Respirable fraction.

#### Canada - Alberta

Impurities	Type	Value	Form
INERT OR NUISANCE DUST (SEQ250)	TWA	3 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	Respirable particles. Total particulate.
QUARTZ (14808-60-7)	TWA	0.025 mg/m <sup>3</sup>	Respirable particles.

#### Canada - British Columbia

Impurities	Type	Value	Form
INERT OR NUISANCE DUST (SEQ250)	TWA	3 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	Respirable fraction. Total dust.
QUARTZ (14808-60-7)	TWA	0.025 mg/m <sup>3</sup>	Respirable fraction.

#### Canada - Ontario

Impurities	Type	Value	Form
INERT OR NUISANCE DUST (SEQ250)	TWA	10 mg/m <sup>3</sup> 3 mg/m <sup>3</sup>	Inhalable particulate. Respirable particles.
QUARTZ (14808-60-7)	TWA	0.1 mg/m <sup>3</sup>	Respirable fraction.

#### Canada - Quebec

Material	Type	Value	Form
ATTAPULGITE (12174-11-7)	TWA	1 fibers/cm <sup>3</sup> n	Fiber.

  

Impurities	Type	Value	Form
INERT OR NUISANCE DUST (SEQ250)	TWA	10 mg/m <sup>3</sup>	Total dust.
QUARTZ (14808-60-7)	TWA	0.1 mg/m <sup>3</sup>	Respirable dust.

**Exposure guidelines** Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

**Engineering controls** If material is ground, cut, or used in any operation which may 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

<b>Eye / face protection</b>	Wear dust goggles. Eye wash fountain is recommended.
<b>Skin protection</b>	No special protective equipment required.
<b>Respiratory protection</b>	Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.
<b>General hygiene considerations</b>	Use good industrial hygiene practices in handling this material.

## 9. Physical & Chemical Properties

<b>Appearance</b>	Not available.
<b>Color</b>	Tan. or Grey.
<b>Odor</b>	None.
<b>Odor threshold</b>	Not available.
<b>Physical state</b>	Solid.
<b>Form</b>	Granular. or Powder.
<b>pH</b>	Not available.
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Flash point</b>	Non-flammable
<b>Evaporation rate</b>	Not available.
<b>Flammability</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Non-explosive
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Insoluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Molecular formula</b>	(Mg,Al) <sub>5</sub> Si <sub>8</sub> O <sub>22</sub> (OH) <sub>4</sub> .4H <sub>2</sub> O

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable at normal conditions.
<b>Conditions to avoid</b>	None known.
<b>Incompatible materials</b>	None known.
<b>Hazardous decomposition products</b>	None known.
<b>Possibility of hazardous reactions</b>	Will not occur.

## 11. Toxicological Information

### Chronic effects

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.)

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003)

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

### Carcinogenicity

#### IARC Monographs: Overall evaluation

QUARTZ (14808-60-7)

1 Carcinogenic to humans.

## 12. Ecological Information

### Ecotoxicity

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

### Environmental effects

Based on the physical properties of this product, significant environmental persistence and bioaccumulation would not be expected.

### Persistence and degradability

Not available.

## 13. Disposal Considerations

### Disposal instructions

Dispose in accordance with all applicable regulations. Material should be recycled if possible.

## 14. Transport Information

### TDG

Not regulated as dangerous goods.

## 15. Regulatory Information

### WHMIS labeling

#### WHMIS status

Non-controlled

#### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. Other Information

### Recommended restrictions

Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable 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.

### HMIS ratings

HEALTH	*	1
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

### NFPA ratings

Health: 1  
Flammability: 0  
Instability: 0

### 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 information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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.

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### Other information

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