

## Safety Data Sheet

### PYROPHYLLITE

Revision date :

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## 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifiers

Chemical Name	MICRONISED PYROPHYLLITE POWDER
CAS NO.	12269-78-2

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

1. Refractory materials Adding pyrophyllite to refractory bricks or refractory materials can form a SiO<sub>2</sub>-rich mullite phase, which forms secondary mulliteization during use. The resulting volume expansion offsets the shrinkage of the material and improves the volume stability of the material .
2. Pressure transmission and sealing medium Pyrophyllite is widely used as a pressure transmission and sealing medium in high pressure synthesis industries such as synthetic diamond and cubic boron nitride due to its good pressure transmission, heat insulation, sealing, machining and insulation characteristics

### Details of the supplier of the safety data sheet

#### COMPANY

POLYMER ADD (THAILAND) CO., LTD.  
 106, Chalaremprakiat, Lor 9, Soi 22, Yak  
 5, Nongbon, Prawet, Bangkok  
 Bangkok - 10250  
 Thailand  
 Telephone : 0804531391  
 Email - contact@polymeradd.co.th

## 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Physical and Chemical Hazards	Not classified
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### 2.2 Labelling according Regulation (EC) No 1272/2008 [CLP]

Label elements	No labeling applicable
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2.3 Other hazards	No additional information available
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## 3 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

#### Component

Chemical Name	Pyrophyllite
CAS NO	12269-78-2
EC Number	602-803-7
Molecular Formula	AlH <sub>5</sub> O <sub>3</sub> Si
Molecular Weight	108.1
Concentration	50 - 55 %

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**4 FIRST AID MEASURES**

**4.1 Description of first aid measures**

**General advice**

Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

If possible show this sheet; if not available show packaging or label.

**If inhaled**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

**In case of skin contact**

Wash with plenty of soap and water. Get medical advice/attention.

**In case of eye contact**

Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention

**If swallowed**

Never give anything by mouth to an unconscious person. Get medical advice/attention

**4.2 Most important symptoms and effects, both acute and delayed**

May cause irritation to the respiratory tract. Respirable fractions of quartz in this product are no more than 1% and the crystalline fraction is much smaller

**4.3 Indication of any immediate medical attention and special treatment needed**

No additional information available

**5 FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Not combustible.

**5.2 Special hazards arising from the substance or mixture**

None known

**5.3 Advice for firefighters**

Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust

**5.4 Further information**

**6 ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions protective equipment and emergency procedures**

Wear protective equipment as described in Section 8.

**6.2 Environmental precautions**

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Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

**6.3 Methods and materials for containment and cleaning up**

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**6.4 Reference to other sections**

See Heading 8. Exposure controls and personal protection.

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**7 HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Do not breathe dust. Avoid dust formation. Provide local exhaust or general room ventilation to minimize exposure to

**7.2 Information about protection against explosions and fires**

No data available

**7.3 Conditions for safe storage including any incompatibilities**

Keep container tightly closed.

**7.4 Specific end use(s)**

No additional information available

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**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Appropriate engineering controls**

Provide local exhaust or general room ventilation.

**Personal protective equipment**

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

**Eye/face protection**

Safety glasses. Contact lenses should not be worn

**Hands protection**

Neoprene or nitrile rubber gloves

**Skin protection**

Wear suitable protective clothing

**Body Protection**

Wear suitable protective clothing

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#### Respiratory protection

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	Cream powder
b) Odour	No data available
c) Odour Threshold	No data available
d) pH (% solution in water)	No data available
e) Melting point/freezing point	> 600 °C
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid or gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	< 0.01 mm Hg @ 20°C
l) Vapour density	No data available
m) Relative density	2.84
n) Water solubility	Insoluble in water
o) Partition coefficient: n-octanol/water	No data available
p) Autoignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

### 9.2 Other safety information

Bulk Density	No data available
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## 10 STABILITY AND REACTIVITY

10.1 Reactivity	No additional information available
10.2 Chemical stability	Stable
10.3 Possibility of hazardous reactions	No additional information available
10.4 Conditions to avoid	None known.

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10.5 Incompatible materials None known.

10.6 Hazardous decomposition products None known.

**11 TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute toxicity** Not classified

**Skin corrosion/irritation** Not classified

**Serious eye damage/eye irritation** Not classified

**Respiratory or skin sensitization** Not classified

**Germ cell mutagenicity** Not classified

**Carcinogenicity** Not classified

**Reproductive toxicity** Not classified

**Specific target organ toxicity - single exposure** Not classified

**Specific target organ toxicity - repeated exposure** Not classified

**Aspiration hazard** Not classified

**Ingestion** May cause skin irritation.

**Skin** May cause skin irritation.

**12 ECOLOGICAL INFORMATION**

12.1 Toxicity No additional information available

**12.2 Persistence and degradability**

**Biodegradation**

No additional information available

12.3 Bio accumulative potential No additional information available

12.4 Mobility in soil No additional information available

12.5 Results of PBT and vPvB assessment No additional information available

12.6 Other adverse effects

**13 DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Product**

Do not dispose of waste into sewer.

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#### 14 TRANSPORT INFORMATION

##### 14.1 UN number

###### ADR/RID

No supplementary inf

###### IMDG

No supplementary inf

###### IATA

No supplementary information available.

##### 14.2 UN proper shipping name

###### ADR/RID

No supplementary information available.

###### IMDG

No supplementary information available.

###### IATA

No supplementary information available.

##### 14.3 Transport hazard class(es)

###### ADR/RID

No supplementary inf

###### IMDG

No supplementary inf

###### IATA

No supplementary inf

##### 14.4 Packaging group

###### ADR/RID

No supplementary inf

###### IMDG

No supplementary inf

###### IATA

No supplementary inf

##### 14.5 Environmental hazards

###### ADR/RID

no

###### IMDG Marine pollutant

no

###### IATA

no

##### 14.6 Special precautions for user

#### 15 REGULATORY INFORMATION

##### 15.1 Safety health and environmental regulations/legislation specific for the substance or mixture

No data available

##### 15.2 Chemical Safety Assessment

No data available

#### 16 OTHER INFORMATION

Month of Creation

March 2023

Month of Revision

March 2027