

## SECTION 1: Identification of the substance/mixture and of the company/undertaking.

### 1.1. Product identifier

Product name : Petalite  
EC no : 215-104-3  
CAS No. : 1302-66-5  
REACH registration No. : Exempted in accordance with Annex V.7  
Synonyms : Petalite HAP 75

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

#### 1.2.1. Relevant identified uses

Use of the substance/preparation:

Substance used as such, in formulation or in formulation of products such as:

- Refractories
- Glass
- Ceramics
- Steel industries

#### 1.2.2. Uses advised against

- None

Full text of use descriptors: see section 16.

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

CTM Potters Supplies  
Unit 7 & 8, Broomhouse Lane Ind Est  
Doncaster  
South Yorkshire  
DN12 1EQ  
Tel - 01709 770801  
Email - doncaster@ctmpotterssupplies.co.uk

### 1.4. Emergency telephone number

NCES 01865 407333 - out of hours 111

## SECTION 2: Hazards identification.

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Physical and chemical hazards: Not classified

Human health: Not classified

Environment: Not classified

Full text of H-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

Depending on the type of handling and use (e.g. grinding, drying etc.), airborne respirable crystalline silica may be generated. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable crystalline silica dust should be monitored and controlled.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 (CLP)

None

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

## SECTION 3: Composition/information on ingredients.

### 3.1. Substances

Chemical name	CAS No.	EC-No.	%	Classification (1272/2008/EC)	REACH Registration Number
Lithium aluminium silicate	1302-66-5	215-104-3	>80	N/A	Exempted
Respirable Crystalline Silica (Quartz)	14808-60-7	238-878-4	<1	STOT RE 1 H372	Exempted

Full text of R-, H- and EUH-phrases: see section 16

## SECTION 4: First aid measures.

### 4.1. Description of first aid measures

**Inhalation:** Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

**Ingestion:** Rinse mouth thoroughly. Get medical attention if any discomfort continues.

**Skin contact:** Wash skin with soap and water. Get medical attention if irritation persists after washing.

**Eye contact:** Make sure to remove any contact lenses from the eyes before rinsing. Rinse eye with water immediately. Get medical attention if any discomfort continues.

### 4.2. Most important symptoms and effects, both acute and delayed

**Inhalation:** May cause coughing

**Ingestion:** May cause indigestion

**Skin contact:** No specific symptoms noted.

**Eye contact:** May cause acute redness of the eyes

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures.

### 5.1. Extinguishing media

**Suitable extinguishing media:** No specific extinguishing media is needed.

**Unsuitable extinguishing media:** None

### 5.2. Special hazards arising from the substance or mixture

**Fire hazard:** Not flammable.

**Explosion hazard:** No explosive properties known.

**Reactivity:** Stable under normal conditions of handling and storage.

### 5.3. Advice for firefighters

**Protection during firefighting:** No specific fire fighting procedures given.

## SECTION 6: Accidental release measures.

### 6.1. Personal precautions, protective equipment and emergency procedures

**General measures:** Keep public away from danger area. See section 8.2.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

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

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Sweep or shovel spills into appropriate container for disposal. Avoid dust production.

### 6.4. Reference to other sections

See section 8 and 13 for more information.

## SECTION 7: Handling and storage.

### 7.1. Precautions for safe handling

**Precautions for safe handling:** Do not breathe dust. Wash hands plentifully and other exposed areas with water after handling. Remove contaminated clothing and shoes. Wash clothing before re-using.

**Packagings:** Even those that have been emptied, will retain product residue. Always obey safety warnings and handle empty packages as if they were full. Avoid all contact with this substance.

**Hygiene measures:** When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Remove contaminated clothing and shoes.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in dry, cool, well-ventilated area. Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in section 1.2

## SECTION 8: Exposure controls/personal protection.

### 8.1. Control parameters

Chemical Name	United Kingdom	France	Netherlands
Respirable Crystalline Silica (Quartz)	TWA: 0.1 mg/m <sup>3</sup>	VME: 0.1 mg/m <sup>3</sup> alv	WG: 0.075 mg/m <sup>3</sup>

#### Exposure Limits:

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust).

#### Ingredients comments:

Dust contains respirable silica. Prolonged and/or massive inhalation of respirable silica dust may cause lung fibrosis. Commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable dust should be monitored and controlled. The product should be handled using methods and techniques that minimise or eliminate dust generation. The product contains less than 1% w/w RCS (respirable crystalline silica) as determined by the SWERF method. The respirable crystalline silica content can be measured using the "Size-Weighted Respirable Fraction – SWERF" method. All details about the SWERF method are available at [www.crystallinesilica.eu](http://www.crystallinesilica.eu)

### 8.2. Exposure controls

**Appropriate engineering controls:** Use as far as possible in a closed system. Provide a regular control of the atmosphere. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Local exhaust and general ventilation must be adequate to meet exposure standards. Please refer to the annex (exposure scenarios).

**Hand protection:** Use gloves resistant to chemical products corresponding to EN 374:3. Take advice to gloves' manufacturer.

**Eye protection:** Wear safety glasses with side shields according to EN 166.

**Skin and body protection:** Wear closed protective clothing.

**Respiratory protection:** Use respiratory protection mask according to EN 140 or EN 405 with filter type P3 according to EN 143:2000 or FFP3 according to EN 149:2001.

**Environmental exposure controls:** Avoid release to the environment.

**SECTION 9: Physical and chemical; properties.**

Physical state	Solid Powder.
Colour	White.
Odour	odourless.
Odour threshold	Not applicable
pH	8 (@10% aqueous dispersion)
Relative evaporation rate (butylacetate=1)	No data available
Melting point	>1,000 °C
Freezing point	No data available
Boiling point	No data available
Flash point	Not flammable
Self ignition temperature	Not applicable
Decomposition temperature	No data available
Flammability (solid, gas)	Not flammable
Vapour pressure	Not applicable.
Relative vapour density at 20 °C	No data available
Relative density	2.4 (water =1)
Density	No data available
Solubility	Negligible.
Log Pow	Not applicable
Log Kow	Not applicable
Viscosity, kinematic	Not applicable
Viscosity, dynamic	Not applicable
Explosive properties	Not explosive.
Oxidising properties	Non oxidizing material according to EC criteria.
Explosive limits	Not applicable

**9.1. Other information**

No additional information available

**SECTION 10: Stability and reactivity.****10.1. Reactivity**

No specific reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal conditions of handling and storage.

**10.3. Possibility of hazardous reactions**

Not relevant.

**10.4. Conditions to avoid**

Not relevant

**10.5. Incompatible materials**

No specific, or groups of materials, are likely to react to produce a hazardous situation.

**10.6. Hazardous decomposition products**

Not relevant

**SECTION 11: Toxicological information.****11.1. Information on toxicological effects**

Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT – single exposure	Based on available data, the classification criteria are not met.
STOT – repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information.

### 12.1. Toxicity

Not relevant

### 12.2. Persistence and degradability

This product is not readily biodegradable.

### 12.3. Bioaccumulative potential

The product is not bioaccumulating.

### 12.4. Mobility in soil

Not relevant, due to the form of the product.

### 12.5. Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT or vPvB criteria of REACH, annex XIII.

### 12.6. Other adverse effects

None known

## SECTION 13: Disposal considerations.

### 13.1. Waste treatment methods

**Waste treatment methods:** Dispose of this material and residues in accordance with local authority requirements.

**Additional information:** Empty packaging can have residues or dusts and are subject to proper waste disposal, as above.

**Ecology - waste materials:** See the european waste catalogue.



## SECTION 14: Transport information.

### 14.1. UN number

The product is not covered by international regulation on transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.2. UN proper shipping name

Not classified for transportation.

### 14.3. Transport hazard class(es)

Not classified for transportation.

### 14.4. Packing group

Not classified for transportation.

### 14.5. Environmental hazards

Other information: No environmental hazards known with this product.

### 14.6. Special precautions for user

Not classified for transportation.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information.

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

#### National regulatory information:

No information available.

#### International legislation/requirements:

No information available.

**EU Legislation:**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18<sup>th</sup> December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulations (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16<sup>th</sup> December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

**15.2. Chemical Safety Assessment.**

Exempted from REACH Registration in accordance with Annex V.7

**SECTION 16: Other information.****Full text of H-phrases referred to under sections 2 and 3**

**H372** – Causes damage to lung through prolonged or repeated exposure by inhalation.

**Abbreviations and acronyms:**

ADN: European Agreement concerning international carriage of Dangerous goods by Inland waterways

ADR: European Agreement concerning international carriage of Dangerous goods by Road

AF: Assessment factor

BCF: Bioconcentration factor

Bw: Body weight

CAS: Chemical Abstracts Service

CLP: Classification, labelling, packaging

CSR: Chemical Safety Report

DMEL: Derived maximum effect level

DNEL: Derivative No effect Level

EC: European Community

ELV: Emission limit values

EN: European Norm

EUH: European Hazard Statement

EWC: European Waste catalogue

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods

LC50: Median lethal concentration

LD50: Median lethal dose

NOAEL: No-observed-adverse-effect-level

NOEC: No observed effect concentration  
NOEL: No observed effect level  
OEL: Operator exposure level  
PBT: Persistent, bioaccumulative, Toxic  
PEC: Predicted effect level  
PNEC: Predicted No effect Concentration  
REACH: Registration, evaluation and autorisation of chemicals  
RID: Regulations concerning the international carriage of dangerous goods by rail  
STEL: Short Term Exposure Limit  
TWA: Time weighted average  
vPvB: Very persistent, very bioaccumulative.

**Training advice:**

Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.

**Social Dialogue on Respirable Crystalline Silica**

A multi-sectorial social dialogue agreement on workers Health Protection through the Good Handling and Use of Crystalline Silica Products Containing it was signed on 25<sup>th</sup> April 2006. This autonomous agreement, which receives the European Commission's financial support, is based on a Good Practices Guide. The requirements of the Agreement came into force on 25<sup>th</sup> October 2006. The Agreement was published in the Official Journal of the European Union (2006/C 279/02). The text of the Agreement and its annexes, including the Good Practices Guide, are available from <http://wwwnepssi.eu> and provide useful information and guidance for the handling of products containing respirable crystalline silica. Literature references are available on request from EUROSIL, the European Association of Industrial Silica Producers.

**Health & Safety Executive (Specific for UK)**

Detailed reviews of the scientific evidence on the health effects of crystalline silica have been published by HSE (Health and Safety Executive, UK) in the Hazard Assessment Documents EH75/4 (2002) and EH75/5 (2003). The HSE points out on its website that "Workers exposed to fine dust containing quartz are at risk of developing a chronic and possibly severely disabling lung disease known as "silicosis". In addition to silicosis, there is now evidence that heavy and prolonged workplace exposure to dust containing crystalline silica can lead to an increased risk of lung cancer. The evidence suggests that an increased risk of lung cancer is likely to occur only in those workers who have developed silicosis". In addition to silicosis, there is now evidence that heavy and prolonged workplace exposure to dust containing crystalline silica can lead to an increased risk of lung cancer. The evidence suggests that an increased risk of lung cancer is likely to occur only in those workers who have developed silicosis.

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### Safety Data Sheet

In compliance with Regulation (EC)1907/2006,  
Regulation (EC) 1272/2008 and Regulation (EC) 2015/830

Date of issue: 03/03/2011 Revision date: 16/10/2022

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