

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 16.09.2014

Version: 1.0

Revision: 16.09.2014

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

- **1.1 Product identifier**
- **Trade name: Petalite**
- **CAS Number:**  
1302-66-5
- **EC number:**  
215-104-3
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:** No further relevant information available.
- **Application of the substance / the preparation:**  
Raw material with applications in the glass- and ceramic-industry. It is also used in specialty applications for the production of vitro-ceramics, as well as in the foundry-industry
- **Uses advised against -**
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier/Manufacturer:**  
Cofermin Rohstoffe GmbH & Co. KG  
Alfredstr. 61  
45130 Essen  
  
Germany  
Tel.: +49-201-438778-0  
Fax: +49-201-438778-88
- **Email competent person: sds@kft.de**
- **Information department: See supplier/manufacturer**
- **1.4 Emergency telephone number: Phone: +49-201-43878-0 (Mo-Thur 8-17 h ; Fri 8-16 h)**

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008** The substance is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** not applicable
- **Information concerning particular hazards for human and environment:**  
No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet.  
In solid form, this material is not hazardous. However, powder or dust generated from grinding of tools or inserts and fumes generated from high-temperature processes are hazardous.
- **Classification system:**  
This classification corresponds to the latest editions of the EEC-lists, but is expanded by using company data and specialized literature. This product has not been thoroughly investigated. Presently no relevant quantitative toxicological data are available.
- **Additional information:**  
For this substance/mixture no safety data sheet needs to be generated according to Article 31(1) of Regulation (EC) No 1907/2006. The here presented safety data sheet may therefore not fulfil all requirements of Annex II of this regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

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### SECTION 3: Composition/information on ingredients

#### 3.1 Chemical characterisation: Substances

##### CAS No. Description:

1302-66-5 Petalite

##### Identification number(s):

EC number: 215-104-3

##### Additional information:

Li<sub>2</sub>O 4,05% - 4,75%K<sub>2</sub>O 0,05% - 0,5%Na<sub>2</sub>O 0,15% - 1,0 %Fe<sub>2</sub>O<sub>3</sub> 0,01% - 0,05%Al<sub>2</sub>O<sub>3</sub> 16,0% - 17,8%SiO<sub>2</sub> 74% - 79%

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General information: If symptoms persist or in case of doubt, seek medical advice.

After Inhalation: In this form unlikely.

After skin contact: Wash with water.

After eye contact:

Rinse the eyes with open eyelids for 10 - 15 minutes with water.

If symptoms persist, consult a doctor.

After swallowing: In this form most unlikely.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing agents:

The product is not combustible and does not support any combustion.

Use fire fighting measures suiting the environment.

For safety reasons unsuitable extinguishing agents: No data available

5.2 Special hazards arising from the substance or mixture No further relevant information available.

##### 5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation.

Use respiratory protective device against the effects of fumes/dust/aerosol.

6.2 Environmental precautions: No special measures required.

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

Moisten product by spraying and pick up mechanically.

Make sure to recycle or dispose of in suitable receptacles.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment

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See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

- Information about protection against explosions and fires: Observe the general rules of industrial fire protection.

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

##### Storage:

- Requirements to be met by storerooms and receptacles: Keep receptacle well sealed and storage at a well-ventilated area.

##### Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from feed.

- Further information about storage conditions: None

- Storage class: 10-13 other combustible and non-combustible substances

#### 7.3 Specific end use(s) No further relevant information available

### SECTION 8: Exposure controls/personal protection

#### Additional information about design of technical systems:

Mechanical ventilation/exhaustion is strongly recommended.

No further data; see section 7.

#### 8.1 Control parameters

- Components with limit values that require monitoring at the workplace: Not required

##### CAS No. Designation of material % Type Value Unit

- Additional Occupational Exposure Limit Values for possible hazards during processing:

Observe general threshold limit for dust.

- Additional information: The lists that were valid during the creation were used as basis.

#### 8.2 Exposure controls

##### Personal protective equipment:

##### General protective and hygienic measures:

The usual precautionary measures should be adhered to when handling chemicals.

Vacuum contaminated clothing. Do not blow or brush off contamination.

Do not inhale dust/smoke/mist.

##### Breathing equipment:

At formation of dust:

Dust protection mask

##### Protection of hands:

The glove material has to be impermeable and resistant to the product/substance/preparation.

Due to missing tests no recommendation to the glove material can be given for the product / preparation / chemical mixture.

Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation

##### Material of gloves:

For undissolved solid substances following materials may be suitable:

nitrile rubber (NBR), butyl rubber (BR), fluorocarbon rubber (FKM) and polychloroprene rubber (CR)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

##### Penetration time of glove material:

The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

##### Eye protection: Safety glasses

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· **Body protection:** Protective work clothing**SECTION 9: Physical and chemical properties**· **9.1 Information on basic physical and chemical properties**· **General information:**· **Appearance:**

Form:	Solid
Colour:	Transparent
	Colourless
	White
	Yellowish
	Greyish
	Reddish
	Greenish

· **Odour:** Characteristic· **Odour threshold:** Not determined· **pH-value:** Not applicable· **Change in condition:**

Melting point/Melting range:	1772 °C
Boiling point/Boiling range:	Not determined

· **Flash point:** Not applicable· **Flammability (solid, gaseous):** Product is not flammable.· **Ignition temperature:**

Decomposition temperature:	Not determined
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· **Self ignition temperature:** Not determined· **Danger of explosion:** Product does not present an explosion hazard.· **Explosion limits:**

Lower:	Not applicable
Upper:	Not applicable

· **Vapour pressure:** Not applicable· **Density:** Not determined· **Relative density:** 2.4 - 2.45· **Vapour density:** Not applicable· **Evaporation rate:** Not applicable· **Solubility in / Miscibility with**

Water:	Insoluble
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· **Partition coefficient (n-octanol/water):** Not determined· **Viscosity:**

dynamic:	Not applicable
kinematic:	Not applicable

· **9.2 Other information** No further relevant information available**SECTION 10: Stability and reactivity**· **10.1 Reactivity** No further relevant information available

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- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available
- **10.5 Incompatible materials:** No further relevant information available
- **10.6 Hazardous decomposition products:**  
No hazardous decomposition products if instructions for storage and handling are followed

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** No toxicity data are available for the product itself.
- **Primary irritant effect:**
- **on the skin:** Dust may be irritant to skin and respiratory tract.
- **on the eye:** Eye irritation is possible after mechanical influence (dust).
- **On respiratory tract:** Irritation of respiratory tract possible
- **Sensitisation:** No sensitising effects known
- **Other information (about experimental toxicology):**
- **Carcinogenic, mutagenic effects and adverse effects on reproduction:**  
Presently available data show no carcinogenic, mutagenic or teratogenic effects.
- **Subacute to chronic toxicity:**
- **STOT-single exposure** No data available
- **STOT-repeated exposure:** No data available
- **Aspiration hazard** Not relevant
- **Additional toxicological information:**  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available
- **12.2 Persistence and degradability** No further relevant information available
- **12.3 Bioaccumulative potential** No further relevant information available
- **12.4 Mobility in soil** No further relevant information available
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Other adverse effects** No further relevant information available

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**  
Smaller quantities can be disposed of with household waste.  
Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European Waste Catalogue based on the identification of the waste generating source.
- **European waste catalogue:**  
01 00 00 WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS

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01 01 00 wastes from mineral excavation

01 01 01 wastes from mineral metalliferous excavation

- Uncleaned packagings:

- Recommendation: Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- 14.1 UN-Number	
- ADR, ADN, IMDG, IATA	Void
- 14.2 UN proper shipping name	
- ADR, ADN, IMDG, IATA	Void
- 14.3 Transport hazard class(es)	
- ADR, ADN, IMDG, IATA	
- Class	Void
- 14.4 Packing group	
- ADR, IMDG, IATA	Void
- 14.5 Environmental hazards:	
- Marine pollutant:	No
- 14.6 Special precautions for user	Not applicable
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
- Transport/Additional information:	Not dangerous according to the above regulations
- UN "Model Regulation":	-

**SECTION 15: Regulatory information**

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

- National regulations

- Water hazard class:

Generally not hazardous for water

Ident number.: 765

- Further information:

For this substance/mixture no safety data sheet needs to be generated according to Article 31(1) of Regulation (EC) No 1907/2006. The here presented safety data sheet may therefore not fulfil all requirements of Annex II of this regulation.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing MSDS:

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