

# SAFETY DATA SHEET

## KLINGERSIL C-4500

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### 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** KLINGERSIL C-4500

**Other Names** Compressed Non Asbestos Fibre Sheeting/Jointing/Gaskets

**Recommended Use** High Temperature Gasket Material

**Supplier** KLINGER Limited (ABN 95 008 679 838)  
38 McDowell St  
Welshpool  
WA 6106  
AUSTRALIA  
Tel +61 (0)8 9251 1600 or 1300 798 279  
(0800 – 1700 Australian Western Standard Time – GMT +8 hrs)  
Fax +61 (0)8 9350 9286

**Emergency Telephone Number :** +61 412626010

### 2 - HAZARDS IDENTIFICATION

Not classified as hazardous according to the criteria of **Safe Work Australia** and **GHS (Globally Harmonized System of Classification and Labelling of Chemicals)**.

**Classification according to GHS:** Not Classified

**GHS Label Elements:** Not Applicable for these products.

**Other Hazard Information :** The product is considered harmless to health and the environment in the form supplied and if stored and handled in the correct manner – see Section 7. No hazards are known based on present information.

### 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS	Proportion
Calcined Alumina Silicate	92704-41-1	30 – 60%
Carbon Fibre	7440-44-0	30 – 60%
Nitrile Butadiene Rubber	9003-18-3	10 - < 30%
Aramid Fibre	26125-61-1	< 10%
Precipitated Silica	112926-00-8	< 10%

#### **4 - FIRST AID MEASURES**

<b>Inhalation</b>	Dust arising from working the product should be treated as nuisance particulate material. Inhalation of dust may cause irritation to the mucous membranes and upper respiratory tract. Movement of exposed individual to fresh air is recommended.
<b>Skin</b>	May cause irritation to individuals with sensitive skin. Wash skin with soap and water. Launder heavily contaminated clothing before reuse. If prolonged irritation occurs, seek medical advice.
<b>Eye</b>	May cause mechanical irritation in contact with eyes. Remove small solid particles and rinse with water for a minimum of 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.
<b>Ingestion</b>	Not hazardous. Not a likely source of exposure. If ingested, give plenty of fluid to assist passage through system. Seek medical attention if irritation occurs.

#### **5 - FIRE FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Water, carbon dioxide, powder extinguishers, foam extinguishers
<b>Hazards from Combustion Products</b>	In case of combustion, the same gases are produced as with burning rubber. The following may be produced in case of fire: Carbon monoxide; carbon dioxide; sulphur oxides; nitrous gases (NO <sub>x</sub> ); irritating/caustic, combustible as well as poisonous carbonisation gases.
<b>Precautions for Firefighters and Special Protective Equipment</b>	Breathing apparatus and eye protection must be worn to protect from dust and fumes.

#### **6 - ACCIDENTAL RELEASE MEASURES**

<b>Emergency Procedures</b>	Fire: See Section 5 Personal: See Section 4
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Environmental: No known environmental hazards exist.

### Methods and Materials for Containment and Cleanup

Approved vacuum cleaners with high efficiency filters (HEPA) conforming to AS3544 or equivalent must be used to clean areas. Spills which involve powder, dusts or granules may create a slip hazard and should be cleaned up immediately. Sweep up but avoid generating dusts.

### Additional

In the case of improper use (see Section 8) fine dust may result. Adequate suction and filtering of the exhaust air should be ensured.

## 7 - HANDLING AND STORAGE

### Handling

No special precautions necessary when handling the material in its finished form. However, whenever further processing of the product is undertaken, potential for the generation of dust exists. See Section 8.

### Storage

Store in a cool, dry, well ventilated area removed from foodstuffs. Material is only flammable through the effects of intensive heat. Excessive heat in the storage area may diminish the product's performance in its intended application.

## 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### National Exposure Standards (Time-Weighted Averages)

Precipitated Silica: 10mg/m<sup>3</sup> ES-TWA  
Nitrile Butadiene Rubber: 50ppm ES-TWA  
Alumina Silicate: 10mg/m<sup>3</sup> ES-TWA  
Aramid Fibre: 0.5fibre/mL ES-TWA  
Carbon Fibre : 0.5fibre/mL ES-TWA  
(Recommended - Note that Aramid and Carbon fibre has no current assigned exposure standard, however as a general safety precaution the above guideline may be used.)

### Biological Limit Value

No Biological Limit Value allocated.

### Engineering Controls

Ensure adequate ventilation exists to maintain air concentrations below exposure standards. Do not inhale

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dust. Use localised extraction or wet methods of work to control dust levels.

### Personal Protective Equipment

No special precautions necessary when handling the material in its finished form. However, whenever further processing of gaskets is undertaken, the potential for the release of particulates that may cause mechanical abrasion exists. In the case of particle generation exceeding the above-noted National Exposure Standards, recommended PPE are rubber/PVC gloves, coveralls, safety glasses and a P2 particulate (AS1716 or equivalent) respirator. When removing embrittled or spent material or when high levels of dust exist a full-face class H particulate cartridge respirator or full-face positive pressure demand airline respirator (AS1716 or equivalent) is recommended. Good hygiene practices must always be maintained.

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Form: Sheets or cut gaskets Colour: Black both sides
<b>Odour</b>	May smell slightly of rubber
<b>pH</b>	Not applicable
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density</b>	Not applicable
<b>Boiling Point/Range</b>	Not applicable
<b>Freezing/Melting Point</b>	Not applicable
<b>Flashpoint</b>	Not-flammable
<b>Solubility (water)</b>	Insoluble
<b>Specific Gravity/Density</b>	1.4 g/cm <sup>3</sup>
<b>Additional</b>	Elastomer carbonisation and decomposition occurs at high temperatures.

## **10 - STABILITY AND REACTIVITY**

**Chemical stability** Stable under intended operating conditions.

**Conditions to Avoid** Not known

**Incompatible Materials** Not known

### **Hazardous Decomposition**

**Products** Decomposition of rubber at high temperatures.

## **11 - TOXICOLOGICAL INFORMATION**

The material in its finished form presents no known health hazard. Synthetic mineral fibres (SMF) is a collective term used internationally to describe fibres such as fiberglass, rockwool and ceramic fibres. The release of SMF into the air is a health risk hence the adoption of an exposure standard of 0.5f/mL (TWA), for respirable fibres according to the National Commission – Worksafe Australia. For non-respirable SMF a secondary (complementary) exposure standard of 2mg/m<sup>3</sup> is proposed by Worksafe Australia. This proposed secondary standard is established to minimise upper respiratory tract irritation from non-respirable fibres. It does not take precedence over the respirable fibre standard. Worksafe has determined not to classify SMF as a suspected carcinogen due to the lack of supporting evidence.

## **12 - ECOLOGICAL INFORMATION**

**Ecotoxicity** Not known. Insoluble in water, precipitates.

**Persistence and Degradability** Not known. Not biologically degradable (self-classification).

**Mobility** Not known

## **13 - DISPOSAL CONSIDERATIONS**

**Disposal Methods** No special requirements exist. Dump on industrial depositories. Seal waste dust in heavy duty plastic bags (200 microns minimum). Do not dispose of in an incineration system under any circumstance. Local, state and federal statutory regulations must be observed.

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**Special Precautions**      Not applicable

### 14 - TRANSPORT INFORMATION

**UN Number**                      None allocated

**UN Proper Shipping Name**      None allocated

**Class and Subsidiary Risks**      Not relevant

**Packing Group**                      Not relevant

**Special Precautions for User**      Do not transport with Explosives, Oxidising agents, Organic peroxides and foodstuffs. In sheet and cut gasket form there is no risk associated with the product under normal transport conditions. Not defined as a Dangerous Good by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**Hazchem Code**                      None allocated

### 15 - REGULATORY INFORMATION

Regulations for dangerous materials not applicable.

### 16 - OTHER INFORMATION

**Date of issue/revision:**      05.03.21

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**END OF MSDS**