SAFETY DATA SHEET
KLINGERSIL C-4500

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)
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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

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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 Aluminia 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

Inhalation	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.
Skin	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.
Eye	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.
Ingestion	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

Suitable Extinguishing Media	Water, carbon dioxide, powder extinguishers, foam extinguishers
Hazards from Combustion Products	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 (NOx); irritating/caustic, combustible as well as poisonous carbonisation gases**.**
Precautions for Firefighters and Special Protective Equipment	Breathing apparatus and eye protection must be worn to protect from dust and fumes.

6 - ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Fire: See Section 5 Personal: See Section 4

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/m3 ES-TWA
Nitrile Butadiene Rubber: 50ppm ES-TWA
Aluminia Silicate: 10mg/m3 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

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 or 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

Appearance	Form:	Sheets or cut gaskets
	Colour:	Black both sides
Odour	May smell slightly of rubber	
pH	Not applicable	
Vapour Pressure	Not applicable	
Vapour Density	Not applicable	
Boiling Point/Range	Not applicable	
Freezing/Melting Point	Not applicable	
Flashpoint	Not-flammable	
Solubility (water)	Insoluble	
Specific Gravity/Density	1.4 g/cm3	

Decomposition of Elastomer: Over 300ºC

Auto Ignition Temperature: Not self-igniting

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.

Health Hazard Summary
Primary Route of Entry:
Inhalation - Yes
Skin - No
Ingestion - Not Applicable
Health Hazards: OSHA classifies fibrous materials as a nuisance dust
Inhalation: Mechanical irritation of the mouth, nose and throat
Carcinogenicity: NIP No
IARC Monographs: No
OSHA Regulated: No

Eye Direct contact will cause mechanical irritation.

Inhalation During normal handling conditions, inhalation in excess of the exposure limits is not likely to occur.
Observe individual. If symptoms of GI irritation develop, consult doctor.

Skin Transient mechanical irritation.

Ingestion Toxicity Data Not applicable

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.

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

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