Klinger Graphite Laminate H,HL,SLS,PSM,PDM

1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name Klinger Graphite Laminate

Other Names Graphite Sheeting/Gaskets, Foil Type H, Graphite Laminates &

Graphite Metal Inserts(SLS,PSM,PDM)

Recommended Use High temperature gasket material

Supplier KLINGER Limited (ABN 95 008 679 838)

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(0800 – 1700 Australian Western Standard Time – GMT +8 hrs)

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Emergency

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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.

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3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion
Graphite (Carbon 95-99%)	7782-42-5	> 60%
Graphite Laminates contains stainless steel insert		<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 Graphite does not burn or support

combustion. When heated to decomposition

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temperature, the following may be

produced: carbon monoxide; carbon dioxide; low molecular weight organic compounds.

Precautions for Firefighters and Special Protective Equipment

Breathing apparatus and eye protection must

be worn to protect from dust and

decomposition products.

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.

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 graphite is undertaken, the potential for the release of particles and fibres exists. See Section 8. Protective gloves are recommended for handling metal inserted laminates to prevent laceration.

Storage Store in a cool, dry, well ventilated area removed from foodstuffs.

Material should not be stored in the vicinity of heat sources. Excessive heat or humidity in the storage area may diminish the

product's performance in its intended application.

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8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards (Time-Weighted Averages)

Graphite: 3mg/m3 ES-TWA
Carbon Fibre: 0.5fibre/mL ES-TWA
(Recommended - Note that Carbon fibre has no
current assigned exposure standard, however as a
general safety precaution the above guideline may

be used.)

Biological Limit ValueNo Biological Limit Value allocated.

Engineering Controls Ensure adequate ventilation exists to maintain air

concentrations below exposure standards. Do not inhale dust/fibres. 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 sheets/gaskets is undertaken, the potential for the release of particulates exists. In the case of particle generation exceeding the abovenoted National Exposure Standards, recommended PPE are rubber/PVC gloves, coveralls, safety

glasses and a P2 particulate (AS1716 or equivalent) respirator. When removing 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: Solid Sheet

Colour: Grey/Black

Odour A faint solvent odour may be detectable with the laminates

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pH 4.5-7

Vapour Pressure Not applicable

Vapour Density Not applicable

Boiling Point/Range Not applicable

Freezing/Melting Point Not applicable

Flashpoint Does not flash; self-extinguishing

Solubility (water) Insoluble

Specific Gravity/Density at 20 ° C : 0.7-1.5

Additional None.

10 - STABILITY AND REACTIVITY

Chemical stability Stable under intended operating conditions.

Conditions to Avoid Not known

Incompatible Materials Contact with very strong oxidizers such as peroxides,

chlorine, trifluoride and fluorine may cause fires and

explosions.

Hazardous Decomposition

Products None with proper use. Oxides of carbon at very high

temperatures.(carbon monoxide and carbon dioxide)

11 - TOXICOLOGICAL INFORMATION

The material in its finished form presents no known health hazard. Inhalation of natural graphite dust may lead to pneumoconiosis and pulmonary fibrosis with such symptoms as

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chest tightness, shortness of breath, coughing, black sputum and difficulty breathing. When this product is used as intended, negligible levels of graphite are emitted.

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 roll and cut packing form there is no risk associated with the

product under normal transport conditions. Not defined

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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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