

# ALEC TIRANTI LIMITED

TOOLS, MATERIALS & EQUIPMENT FOR MODELLING, CARVING, SCULPTURE  
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## Material Safety Data Sheet

# GRAPHITE

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### 1. IDENTIFICATION of PREPARATION

**Material / Trade name:** Graphite powder.

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Name:** Graphite  
**Concentration:** 100%  
**CAS Number:** CAS 7782-42-5

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### 3. HAZARD IDENTIFICATION

This material is not known to be hazardous under present regulations.

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### 4. FIRST AID MEASURES

**Inhalation:** Remove the subject to fresh air, but keep warm. Seek medical advice and take this data sheet.  
**Eye Contact:** Wash eyes immediately with flowing water for at least 15 mins. Refer subject to a doctor.  
**Skin Contact:** Wash the affected area thoroughly with copious amounts of soapy water. If irritation persists seek medical advice.  
**Ingestion:** No specific intervention is indicated as the material is not likely to be hazardous by ingestion. Consult doctor if considered necessary.  
**General:** If breathing fails, apply artificial respiration.

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### 5. FIRE FIGHTING MEASURES

**Suitable Extinguishers:** Water spray, water fog.  
**Unsuitable Extinguishers:** Although other forms of extinguisher may be used, they are far less effective for deep seated smouldering fires.  
**Special Exposure hazards in a fire:** May react with strong oxidising agents.  
**Special Procedures:** Breathing apparatus (respiratory protection). Protective clothing safety goggles and gloves should be worn.

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### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear appropriate protective clothing. Wear gloves. In cases of dust generation, wear goggles and ensure adequate ventilation and / or use breathing apparatus (respiratory protection). Review Fire Fighting Measures and handling sections of this data sheet with personnel before starting any clean up operations.  
**Environmental precautions:** Keep away from drains and waterways.  
**Methods for cleaning up:** Recover undamaged material for reuse or reclamation. Shovel, vacuum or sweep up residues and collect in suitable containers for disposal

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### 7. HANDLING & STORAGE

**Handling:** Wear appropriate protective clothing including gloves. Utilise appropriate working procedures which prevent dust generation to nuisance levels.  
**Storage:** Do not store with strong oxidising agents. Keep away from sources of ignition and ensure that all material is clearly labelled.

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## 8. EXPOSURE CONTROLS / PERSONAL

**Technical measures for exposure control:**

Ensure working area is adequately ventilated to minimise exposure to dust.

**Limit values for workplace air (O.E.L):**

Graphite MEL: TWA 8 Hours 5mg/m<sup>3</sup> STEL 10mins not available.

**Personal protective equipment:**

Wear appropriate protective clothing including gloves. Goggles and approved respiratory protection should be used where dust levels exceed recommended safety limits.

### **Maximum Exposure Limits and**

**Occupational Exposure Limits** are taken from the publication **HSE 40/94**

**Occupational Exposure Limits 1994** or later issue, but Limits should be checked in the latest issue.

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## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance:</b>	Solid grey/black mass which may appear as granules or as a powder depending on the form supplied.
<b>Odour:</b>	None
<b>Ph:</b>	N/A
<b>Boiling Point Range:</b>	N/A
<b>Mp:</b>	N/A
<b>Flash Point:</b>	N/A Solid
<b>Volatiles:</b>	0-1% (By volume)
<b>Bulk density:</b>	820-950 kg/m <sup>3</sup>
<b>Explosive Properties:</b>	Not quoted
<b>Vapour Pressure:</b>	Not quoted
<b>Solubility:</b>	Not quoted

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## 10. STABILITY & REACTIVITY

Stable under normal conditions

<b>Hazardous Decomposition:</b>	Combustion can produce oxides of carbon
<b>Materials to avoid:</b>	Avoid contact with strong oxidising agents
<b>Thermal decomposition:</b>	Possible combustion

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## 11. TOXICOLOGICAL INFORMATION

The material is regarded as non-toxic; however the following symptoms may occur.

<b>Eyes:</b>	May cause slight to moderate irritation. May reduce visibility due to unpleasant deposits in eyes
<b>Skin:</b>	May cause skin irritation
<b>Inhalation:</b>	May irritate mucous membranes by mechanical or chemical means. May cause lung inflammation.
<b>Ingestion:</b>	No significant effects reported. It should be noted that usual workplace exposure is not known or expected to cause a significant health hazard.

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## 12. ECOLOGICAL INFORMATION

No data quoted.

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## 13. DISPOSAL CONSIDERATIONS

Obtain the services of a waste disposal contractor for safe disposal via controlled incineration. Ensure compliance with local laws and regulations.

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## 14. TRANSPORT INFORMATION

Not classified as hazardous

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## 15. REGULATORY INFORMATION

No warning symbols risk or safety phrases applicable

The information in this safety sheet does not constitute the user's own assessment of workplace risks as are required by other health and safety legislation. The provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

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## 16. OTHER INFORMATION

*The information contained in this Safety Data Sheet is provided in accordance with the requirements of The Chemicals (Hazard Information and Packaging) Regulations.*

Ensure material is dry before using in foundry applications.

This product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use are outside the supplier's control, the user is responsible for ensuring that the requirements of the relevant legislation are complied with. The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of material properties, of technical performance or suitability for particular applications.

*Further information can be found in:*

- The Control of Substances Hazardous to Health Regulations 1988 (SI 1988:1657)
- The Manual Handling Operations Regulations 1992 (SI 1992 : 2793)
- The Environmental Protection (Duty of Care) Regulations 1992 (SI 1992 : 2839)
- The publication HSE EH40/94 Occupational Exposure Limits 1994 or latest issue.