

# SAFETY DATA SHEET



Cookson Electronics ASSEMBLY MATERIALS

## Hawk Graphite

### 1. Identification of the preparation and of the company

**Product name** : Hawk Graphite**Code** : 61022**Head Office** : **Cookson Electronics**  
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Woking  
Surrey  
England  
GU21 5RZ  
Tel: +44(0)1483 758400  
Fax: +44(0)1483 728837**Manufacturer** : Cookson Electronics  
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Surrey  
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GU21 5RZ  
Tel: +44(0)1483 758400  
Fax: +44(0)1483 728837**Contact person** : shosken@cooksonelectronics.com**Material uses** : Sealants

### 2 Hazards identification

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Not classified.**Skin contact** : Not available.**Toxicity data** : Not available.**Additional warning phrases** : Safety data sheet available for professional user on request.

See section 11 for more detailed information on health effects and symptoms.

### 3 Composition/information on ingredients

**Substance/preparation** : Preparation

Ingredient name	CAS number	%	EC number	Classification
<b>Europe</b> kaolin	1332-58-7	40 - 60	310-194-1	Not classified.
Graphite	7782-42-5	1 - 5	231-955-3	Not classified.
<b>See section 16 for the full text of the R-phrases declared above</b>				

Occupational exposure limits, if available, are listed in section 8.

The classifications listed, indicate the potential hazards of the ingredients

### 4. First-aid measures

#### First-aid measures

- Inhalation** : Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. If unconscious, place in recovery position and get medical attention immediately.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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1/8

## 4. First-aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See section 11 for more detailed information on health effects and symptoms.

## 5. Fire-fighting measures

### Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : No specific fire or explosion hazard.  
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill** : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.
- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

## 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Workers should wash hands and face before eating, drinking and smoking. Avoid contact with eyes, skin and clothing. Do not reuse container.
- Storage** : Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- Packaging materials**
- Recommended** : Use original container.

## 8. Exposure controls/personal protection

### Exposure limit values

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<b>Europe</b>	
kaolin	<b>ACGIH TLV (United States, 1/2008).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s). Form: Respirable fraction
Graphite	<b>ACGIH TLV (United States, 1/2008).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s). Form: Dust
<b>Sweden</b>	
Graphite	<b>AFS 2005:17 (Sweden, 6/2007).</b> TWA: 0.2 f/cc 8 hour(s). TWA: 3 mg/m <sup>3</sup> 8 hour(s). Form: total dust
<b>Denmark</b>	
kaolin	<b>Arbejdstilsynet (Denmark, 3/2008).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s). Form: respirable dust
Graphite	<b>Arbejdstilsynet (Denmark, 3/2008).</b> TWA: 2.5 mg/m <sup>3</sup> 8 hour(s). Form: respirable dust
<b>Norway</b>	
Graphite	<b>Arbejdstilsynet (Norway, 11/2007).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s). Form: respirable dust TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: total dust
<b>France</b>	
kaolin	<b>INRS (France, 12/2007). Notes: indicative exposure limits</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).
calcium carbonate	<b>INRS (France, 12/2007). Notes: indicative exposure limits</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).
Graphite	<b>INRS (France, 12/2007). Notes: indicative exposure limits</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s). Form: respirable aerosol
<b>Netherlands</b>	
kaolin	<b>Nationale MAC-lijst (Netherlands, 7/2006). Notes: Administrative OEL, 8-h TWA: 10 mg/m<sup>3</sup> 8 hour(s).</b>
graphite, natural	<b>Nationale MAC-lijst (Netherlands, 7/2006). Notes: Administrative OEL, 8-h TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: respirable dust</b>
<b>Germany</b>	
Graphite	<b>TRGS900 AGW (Germany, 7/2008).</b> PEAK: 6 mg/m <sup>3</sup> 15 minute(s). Form: alveolate fraction TWA: 3 mg/m <sup>3</sup> 8 hour(s). Form: alveolate fraction PEAK: 20 mg/m <sup>3</sup> 15 minute(s). Form: inhalable fraction TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: inhalable fraction
<b>Finland</b>	
kaolin	<b>Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 8/2007).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).
calcium carbonate	<b>Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 8/2007).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).
Graphite	<b>Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 8/2007).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s).
<b>United Kingdom (UK)</b>	
kaolin	<b>EH40/2005 WELs (United Kingdom (UK), 8/2007).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s). Form: respirable dust
calcium carbonate	<b>EH40/2005 WELs (United Kingdom (UK), 8/2007).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: inhalable dust TWA: 4 mg/m <sup>3</sup> 8 hour(s). Form: respirable dust
Graphite	<b>EH40/2005 WELs (United Kingdom (UK), 8/2007).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: inhalable dust TWA: 4 mg/m <sup>3</sup> 8 hour(s). Form: respirable dust

## 8. Exposure controls/personal protection

### Austria

Graphite

**GKV\_MAK (Austria, 9/2007).**TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: respirable dustSTEL: 10 mg/m<sup>3</sup>, 2 times per shift, 60 minute(s). Form: respirable dust

### Switzerland

kaolin

**SUVA (Switzerland, 1/2007). Notes: not temporary**TWA: 3 mg/m<sup>3</sup> 8 hour(s). Form: respirable dust

Graphite

**SUVA (Switzerland, 1/2007). Notes: not temporary**TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: inhalable dustTWA: 2.5 mg/m<sup>3</sup> 8 hour(s). Form: respirable dust

### Belgium

kaolin

**Lijst Grenswaarden / Valeurs Limites (Belgium, 6/2007).**TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: respirable fraction

Graphite

**Lijst Grenswaarden / Valeurs Limites (Belgium, 6/2007).**TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: respirable fraction

### Spain

kaolin

**INSHT (Spain, 1/2008).**TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: respirable fraction

calcium carbonate

**INSHT (Spain, 1/2008).**TWA: 10 mg/m<sup>3</sup> 8 hour(s).

Graphite

**INSHT (Spain, 1/2008).**TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: dust

### Turkey

kaolin

**NIOSH REL (United States, 6/2008).**TWA: 5 mg/m<sup>3</sup> 10 hour(s). Form: Respirable fractionTWA: 10 mg/m<sup>3</sup> 10 hour(s). Form: Total

Graphite

**NIOSH REL (United States, 6/2008).**TWA: 2.5 mg/m<sup>3</sup> 10 hour(s). Form: Respirable fraction

### Czech Republic

Graphite

**178/2001 (Czech Republic, 12/2007).**TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: fibers, respirable fraction (Fr) Fr < 5 %TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: fibers, respirable fraction (Fr) Fr > 5 %TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: fibres, total concentration

### Ireland

kaolin

**NAOSH (Ireland, 8/2007).**OELV-8hr: 2 mg/m<sup>3</sup> 8 hour(s). Form: respirable dust

### Italy

kaolin

**ACGIH TLV (United States, 1/2008).**TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fraction

Graphite

**ACGIH TLV (United States, 1/2008).**TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: Dust

### Estonia

Graphite

**Sotsiaalminister (Estonia, 10/2007).**TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: dust

### Lithuania

Graphite

**Del Lietuvos Higienos Normos (Lithuania, 10/2007).**TWA: 3 mg/m<sup>3</sup> 8 hour(s). Form: dust

### Slovakia

Graphite

**Nariadenie Vlády Slovenskej republiky (Slovakia, 6/2007).**TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: respirable compact aerosolsTWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: total compact aerosols

### Hungary

No exposure limit value known.

## 8. Exposure controls/personal protection

### Poland

kaolin

**Ministra Pracy i Polityki Społecznej (Poland, 9/2007).**TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: total dust

calcium carbonate

**Ministra Pracy i Polityki Społecznej (Poland, 9/2007).**TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Dusts

Graphite

**Ministra Pracy i Polityki Społecznej (Poland, 9/2007).**TWA: 1 mg/m<sup>3</sup> 8 hour(s). Form: respirable dustTWA: 4 mg/m<sup>3</sup> 8 hour(s). Form: total dust

### Slovenia

graphite, natural

**Uradni list Republike Slovenije (Slovenia, 1/2000).**TWA: 6 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fraction

### Latvia

calcium carbonate

**LV Nat. Standardisation and Meterological Centre (Latvia, 5/2007).**TWA: 6 mg/m<sup>3</sup> 8 hour(s).

### Greece

Graphite

**PD 90/1999 (Greece, 8/2007).**TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: inhalable fractionTWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: respirable fraction

### Portugal

kaolin

**Instituto Português da Qualidade (Portugal, 3/2007).**TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: respirable fraction

Graphite

**Instituto Português da Qualidade (Portugal, 3/2007).**TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: respirable fraction

**Recommended monitoring procedures** : Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

### Exposure controls

**Occupational exposure controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Respiratory protection** : Recommended:None assigned.

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. <1 hours (breakthrough time): disposable vinyl

**Eye protection** : Recommended:None assigned.

**Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: None assigned.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

### General information

#### Appearance

- Physical state** : Solid.  
**Colour** : Dark grey.  
**Odour** : Characteristic.

### Important health, safety and environmental information

- Solubility** : Insoluble in the following materials: cold water and hot water.  
**VOC content** : 0 % (w/w) [ISO % 11890-2]

## 10. Stability and reactivity

- Stability** : The product is stable.  
**Conditions to avoid** : No specific data.  
**Materials to avoid** : No specific data.  
**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

### Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Eye contact** : No known significant effects or critical hazards.

#### Acute toxicity

### Over-exposure signs/symptoms

- Target organs** : Contains material which may cause damage to the following organs: cardiovascular system, upper respiratory tract, stomach.

## 12. Ecological information

### Aquatic ecotoxicity

#### Biodegradability

- Other adverse effects** : No known significant effects or critical hazards.

## 13. Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
- European waste catalogue (EWC)** : 16 03 04 inorganic wastes other than those mentioned in 16 03 03
- Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

## 14. Transport information

### International transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA Class	Not regulated.	-	-	-		-

PG\* : Packing group

## 15. Regulatory information

### EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

**Risk phrases** : This product is not classified according to EU legislation.

**Safety phrases** : S37- Wear suitable gloves.

**Product use** : Consumer applications, Industrial applications.

### Other EU regulations

**Additional warning phrases** : Safety data sheet available for professional user on request.

#### France

**Professional disease or diseases** : kaolin RG 25  
Graphite RG 25

#### Germany

**Hazard class for water** : 3 Appendix No. 4

**Technical instruction on air quality control** : TA-Luft Number 5.2.1: 68.1%

#### Italy

**Emission control directive** : Not classified.

## 16. Other information

### History

**Date of printing** : 20/07/2011.

**Date of issue** : 23/09/2010.

**Date of previous issue** : 29/07/2010.

**Version** : 4

**Prepared by** : Simon Hosken  
Environmental, Health and Safety Manager

☑ Indicates information that has changed from previously issued version.

### References

The Health and Safety At Work Act 1974, section 6.  
Control of Substances Hazardous to Health (CoSHH) Regulations 2002 and its amendments.

Preparation contains solely TSCA and REACH 1907/2006 listed substances.

This safety data sheet has been prepared in accordance with the requirements of the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 which implement EC Directives 1999/45/EC and 2001/58/EC and their amendments.

### Notice to reader

**Date of issue** : 23/09/2010.

7/8

## 16. Other information

*To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*