

## SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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### KEMET COPPER COMPOSITE

Revision 7

Revision date 2015-05-14

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name** KEMET COPPER COMPOSITE

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Product Use** [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [SU0] Other; [PC0] Other;

##### 1.3. Details of the supplier of the safety data sheet

**Company** Kemet International Ltd  
**Address** Parkwood Trading Estate  
 Maidstone  
 Kent  
 ME15 9NJ  
**Web** www.kemet.co.uk  
**Telephone** +44 (0)1622 755287  
**Fax** +44 (0)1622 670915  
**Email** sales@kemet.co.uk  
**Email address of the competent person** nroper@kemet.co.uk

##### 1.4. Emergency telephone number

**Emergency telephone number** +44 (0) 1622 755287  
**Company** N Roper  
 9.00-5.00

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

**2.1.1. Classification - 1999/45/EC** Xn; R22 N; R50/53  
 Symbols: Xn: Harmful. N: Dangerous for the environment.  
**Main hazards** Harmful if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
**2.1.2. Classification - EC 1272/2008** Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

##### 2.2. Label elements

**Hazard pictograms**



**Signal Word**

Warning

**Hazard Statement**

Acute Tox. 4: H302 - Harmful if swallowed.  
 Aquatic Acute 1: H400 - Very toxic to aquatic life.  
 Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

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## 2.2. Label elements

<b>Precautionary Statement: Prevention</b>	P264 - Wash thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P273 - Avoid release to the environment.
<b>Precautionary Statement: Response</b>	P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ /if you feel unwell. P330 - Rinse mouth. P391 - Collect spillage.
<b>Precautionary Statement: Disposal</b>	P501 - Dispose of contents/container to licenced waste Disposal Facility

## 2.3. Other hazards

<b>Other hazards</b>	PBT/vPvB assessment is not available as a chemical safety assessment is either not required or has not been conducted. The fully cured resin system is not expected to be harmful to human health or the environment. However dust generated in processing and use will contain hazardous components.
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## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## 67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Copper Powder (Copper fume)		7440-50-8			60 - 70%	Xn; R22 N; R50/53	M=1

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Copper Powder (Copper fume)		7440-50-8			60 - 70%	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 3: H412;	M=1

## Further information

<b>ADDITIONAL INFORMATION</b>	The fully cured resin system is not expected to be harmful to human health or the environment. However dust generated in processing and use will contain hazardous components.
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## SECTION 4: First aid measures

## 4.1. Description of first aid measures

<b>Inhalation</b>	Seek medical attention.
<b>Eye contact</b>	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention. May cause irritation to eyes.
<b>Skin contact</b>	May cause irritation to skin. Wash with soap and water.
<b>Ingestion</b>	DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Drink 1 to 2 glasses of water. Seek medical attention.

## 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
<b>Eye contact</b>	May cause temporary eye irritation or eye damage due to the abrasive nature of the product.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dryness.
<b>Ingestion</b>	Ingestion may cause nausea and vomiting.

## 4.3. Indication of any immediate medical attention and special treatment needed

<b>Inhalation</b>	Remove the affected person from the source of contamination immediately. If breathing is difficult give oxygen.
<b>Eye contact</b>	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Treat Symptomatically.
<b>Skin contact</b>	Wash with soap and water. Treat Symptomatically.
<b>Ingestion</b>	DO NOT INDUCE VOMITING. Drink 1 to 2 glasses of water. Treat Symptomatically.

## General information

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## General information

	If you feel unwell, seek medical advice (show the label where possible). Wash all contaminated clothing before reuse.
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**SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

	Use as appropriate: Carbon dioxide (CO2), Dry chemical, Foam. Use extinguishing media appropriate to the surrounding fire conditions.
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## 5.2. Special hazards arising from the substance or mixture

	Toxic Fumes and Dust may be formed in fire conditions. Burning produces irritating, toxic and obnoxious fumes.
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## 5.3. Advice for firefighters

	Wear self contained breathing apparatus and protective clothing.
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**SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Sweep up. Avoid formation of dust. Wear suitable protective clothing, gloves and eye/face protection.
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## 6.2. Environmental precautions

	Do not allow product to enter drains. Do not flush into surface water.
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## 6.3. Methods and material for containment and cleaning up

	Clean area thoroughly with detergent. Clean spillage area thoroughly with plenty of water. Transfer to suitable, labelled containers for disposal.
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## 6.4. Reference to other sections

	See section 2, 7, 8 & 9 for further information.
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**SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Wear suitable protective equipment. Caution Product can be heavy and may require manual handling assistance. Avoid formation of dust. Do not breathe dust.
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## 7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Store in original container. Avoid Direct Sunlight. Avoid extremes of temperature during storage. Keep away from heat.
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## Suitable packaging

	Plastic containers. Wood articles.
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**SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

	Ensure adequate ventilation of the working area.
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## 8.1.1. Exposure Limit Values

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## 8.1.1. Exposure Limit Values

Copper Powder (Copper dusts and mists (as Cu))	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 1
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: 2
	WEL 8-hr limit mg/m3 total inhalable dust: -	WEL 15 min limit mg/m3 total inhalable dust: -
	WEL 8-hr limit mg/m3 total respirable dust: -	WEL 15 min limit mg/m3 total respirable dust: -
Copper Powder (Copper fume)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 0.2
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total inhalable dust: -	WEL 15 min limit mg/m3 total inhalable dust: -
	WEL 8-hr limit mg/m3 total respirable dust: -	WEL 15 min limit mg/m3 total respirable dust: -
KEMET COPPER COMPOSITE	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3:
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:
	WEL 8-hr limit mg/m3 total inhalable dust: 1	WEL 15 min limit mg/m3 total inhalable dust: 2
	WEL 8-hr limit mg/m3 total respirable dust:	WEL 15 min limit mg/m3 total respirable dust:

## 8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area. When machining or during cleaning operations ensure adequate ventilation or exhaust ventilation is provided.
8.2.2. Individual protection measures	Avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying and dispensing.
Eye / face protection	Safety glasses. Avoid contact with eyes.
Skin protection - Handprotection	Neoprene gloves. Rubber gloves.
Respiratory protection	Not normally required. Wear suitable respiratory equipment when necessary.
8.2.3. Environmental exposure controls	Dispose of this material and its container to hazardous or special waste collection point.
Occupational exposure controls	Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Keep away from food, drink and animal feedingstuffs. Contains epoxy constituents. May produce an allergic reaction. Waste from residues/unused products: do not discharge effluent containing this product into waterways or sewerage systems without proper authorisation.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

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## 9.1. Information on basic physical and chemical properties

Appearance	Solid
Colour	Orange
Odour threshold	Not applicable.
pH	Not applicable.
Melting point	No data available
Initial boiling point	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	No data available
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	≈ 3 (H <sub>2</sub> O = 1 @ 20 °C)
Partition coefficient	Not applicable.
Autoignition temperature	No data available
Viscosity	Not applicable.
Explosive properties	No data available
Oxidising properties	No data available

## 9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	Not applicable.

## Water solubility

Insoluble.

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

None expected under normal conditions of use.

## 10.2. Chemical stability

Will not decompose if stored and used as recommended.

## 10.3. Possibility of hazardous reactions

None expected under normal conditions of use.

## 10.4. Conditions to avoid

Direct sunlight. Heat, sparks and open flames. Keep away from heat.

## 10.5. Incompatible materials

Strong acids. Strong bases.

## 10.6. Hazardous decomposition products

Incomplete combustion will produce toxic and noxious fumes including carbon monoxide and carbon dioxide.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity	No data is available on this product.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	MAY CAUSE EYE IRRITATION.

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## 11.1. Information on toxicological effects

Respiratory or skin sensitisation	No sensitization effects reported.
Repeated or prolonged exposure	Prolonged or repeated exposure may cause irritation to skin and mucous membranes.

## 11.1.4. Toxicological Information

	No data available
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## SECTION 12: Ecological information

## 12.1. Toxicity

	No data available
	No data is available on this product.

## 12.2. Persistence and degradability

	No data is available on this product.
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## 12.3. Bioaccumulative potential

	No data is available on this product.
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## Partition coefficient

	KEMET COPPER COMPOSITE Not applicable.	Copper Powder No data available
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## 12.4. Mobility in soil

	No data is available on this product.
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## 12.5. Results of PBT and vPvB assessment

	PBT/vPvB assessment is not available as a chemical safety assessment is either not required or has not been conducted.
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## 12.6. Other adverse effects

	May cause long-term adverse effects in the aquatic environment.
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## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

	Allocation of the correct EWC Number should be done in accordance with the European Waste Catalogue and should be carried out in agreement with an EA authorised waste disposal company.
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## General information

	Can be incinerated if in compliance with local and national regulations. Dispose of in compliance with all local and national regulations.
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## Disposal methods

	Dispose of this material and its container to hazardous or special waste collection point.
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## Disposal of packaging

	Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations. Empty containers can be sent for disposal or recycling.
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## SECTION 14: Transport information

## ADR/RID

	The product is not classified as dangerous for carriage.
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## IMDG

	The product is not classified as dangerous for carriage.
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## IATA

	The product is not classified as dangerous for carriage.
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## Further information

The product is not classified as dangerous for carriage.

## SECTION 15: Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. Regulation (EC) No 1907/2006 REACH, Regulation (EC) No 1272/2008 CLP. The Health and Safety at Work Act 1974. Workplace Exposure Limits EH40.
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## 15.2. Chemical safety assessment

A chemical safety assessment has not been conducted.

## SECTION 16: Other information

## Other information

Revision	This document differs from the previous version in the following areas: 7 - 7.1. Precautions for safe handling. 7 - Suitable packaging. 8 - 8.2.1. Appropriate engineering controls. 8 - Occupational exposure controls. 8 - Skin protection - Handprotection. 10 - 10.4. Conditions to avoid. 10 - 10.6. Hazardous decomposition products. 12 - 12.6. Other adverse effects.
Text of risk phrases in Section 3	R22 - Harmful if swallowed. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Text of Hazard Statements in Section 3	Acute Tox. 4: H302 - Harmful if swallowed. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

## Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.