

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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KEMET IRON COMPOSITE

Revision 9
Revision date 2016-10-17

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

1.1. Product identifier

Product name	KEMET IRON COMPOSITE
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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; [PROC24] High (mechanical) energy work-up of substances bound in materials and/or articles;
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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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Main hazards	No Significant Hazard
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2.2. Label elements

Risk phrases	No Significant Hazard
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2.3. Other hazards

Other hazards	The product is classified as non hazardous. Hazard information is calculated and presented from raw material data. The composite material as supplied is not expected to be hazardous. Caution! This product is dense and may require mechanical handling.
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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.
Iron powder		7439-89-6	231-096-4		60 - 70%	F; R11	

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3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Iron powder		7439-89-6	231-096-4		60 - 70%	Flam. Sol. 2: H228;	

Hazardous ingredients

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.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention. Seek medical attention if irritation or symptoms persist.
Skin contact	Wash with soap and water.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Drink 1 to 2 glasses of water.

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

Inhalation	Inhalation of dust may cause shortness of breath.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	Ingestion may cause nausea and vomiting.

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

If you feel unwell, seek medical advice (show the label where possible).

General information

If you feel unwell, seek medical advice (show the label where possible). Wash all contaminated clothing before reuse.

Further information

Treat Symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions. Use as appropriate: Carbon dioxide (CO₂), Dry chemical, Foam.

5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes. Do not allow runoff water to enter sewers or drains. Do NOT use water jet.

5.3. Advice for firefighters

Wear self contained breathing apparatus and protective clothing.

Further information

CONTAINS MATERIAL WHICH CAN CAUSE environmental DAMAGE. Do not allow runoff water to enter sewers or drains. Do not breathe dust or vapour.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid raising dust. Ensure adequate ventilation of the working area. Wear suitable protective equipment.

6.2. Environmental precautions

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6.2. Environmental precautions

Do not allow runoff water to enter sewers or drains. Do not let product contaminate subsoil.

6.3. Methods and material for containment and cleaning up

Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water. Collect spillage. Use dry methods where possible eg sweep and collect or use vacuum with particulate dust filters. Avoid raising dust. Damp material if necessary using water.

6.4. Reference to other sections

See section 2, 3,7, 8, & 9 for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid formation of dust. Do not breathe dust or vapour. Appropriate local exhaust ventilation is required. Caution! This product is dense and may require mechanical handling.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry area. Avoid contact with: Strong oxidising agents, Strong acids and strong bases. Keep away from heat.

7.3. Specific end use(s)

For industrial/research use only. See separate instruction sheet for correct method of use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Avoid formation of dust. Avoid release to the environment.

8.1.1. Exposure Limit Values

Iron powder	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 4 Respirable Dust, 10 Total Inhalable Dust
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3: 10
	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 IRON COMPOSITE	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 10
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3: 4
	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:

8.2. Exposure controls



8.2.1. Appropriate engineering controls

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. Wash all contaminated clothing before reuse. Adopt best Manual Handling considerations when handling, carrying and dispensing.

Eye / face protection

Avoid contact with eyes. Safety glasses.

Skin protection - Handprotection

Rubber gloves.

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8.2. Exposure controls

Respiratory protection	Wear suitable respiratory equipment when necessary.
8.2.3. Environmental exposure controls	Avoid release to the environment. Refer to special instructions/Safety data sheets. Prevent product from entering drains.
Occupational exposure controls	Keep away from food, drink and animal feedingstuffs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Solid
Colour	Black
Odour	Mild/Characteristic
pH	Not applicable.
Melting point	> 150 °C
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	Not applicable.
Flammability (solid, gas)	No data available
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	≈ 3 (H ₂ O = 1 @ 20 °C)
Partition coefficient	No data available
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	Not applicable.
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	Not applicable.

Water solubility

	. Insoluble.
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SECTION 10: Stability and reactivity

10.1. Reactivity

	No data is available on this product.
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10.2. Chemical stability

	Stable under normal conditions. Will not decompose if stored and used as recommended.
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10.3. Possibility of hazardous reactions

	None expected under normal conditions of use.
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10.4. Conditions to avoid

	Store at temperatures below 40 °C.
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10.5. Incompatible materials

	Strong acids. Strong oxidising agents.
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10.6. Hazardous decomposition products

Carbon oxides. Burning produces obnoxious and toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

	Data used to compile this data sheet is taken from suppliers information and the current edition of EH40 Occupational Exposure limits. Some data may be presented for the "Main ingredient" where particular risks are likely but information for the product is not available.
Acute toxicity	No data is available on this product.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	No data is available on this product.
Respiratory or skin sensitisation	May cause sensitisation by skin contact.
Germ cell mutagenicity	No data is available on this product.
Carcinogenicity	No data is available on this product.
Reproductive toxicity	No data is available on this product.
Repeated or prolonged exposure	Prolonged or repeated exposure may cause irritation to skin and mucous membranes.

11.1.2. Mixtures

No data is available on this product.

11.1.3. Hazard Information

Caution Product can be heavy and may require manual handling assistance.

SECTION 12: Ecological information

12.1. Toxicity

No data is available on this product.

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

Partition coefficient

KEMET IRON COMPOSITE No data available

12.4. Mobility in soil

No data is available on this product.

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.

12.6. Other adverse effects

No data is available on this product.

SECTION 13: Disposal considerations

General information

Dispose of as special waste in compliance with local and national regulations.

Disposal methods

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

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

Further information	
	Waste from residues/unused products: do not discharge effluent containing this product into waterways or sewerage systems without proper authorisation.

SECTION 14: Transport information

14.1. UN number	
	The product is not classified as dangerous for carriage.

14.2. UN proper shipping name	
	The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)	
	The product is not classified as dangerous for carriage.

14.4. Packing group	
	The product is not classified as dangerous for carriage.

14.5. Environmental hazards	
	The product is not classified as dangerous for carriage.

14.6. Special precautions for user	
	The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
	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	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.

15.2. Chemical safety assessment	
	A chemical safety assessment has not been conducted.

Further information	
	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.

SECTION 16: Other information

Other information	
Revision	This document differs from the previous version in the following areas: 11 - 11.1.4. Toxicological Information. 12 - 12.1. Toxicity.
Text of risk phrases in Section 3	R11 - Highly flammable.
Text of Hazard Statements in Section 3	Flam. Sol. 2: H228 - Flammable solid.

Further information	
	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use,

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Further information

	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. This document differs from the previous version in the following areas: . -.
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