

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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KEMET WHITE ALUMINIUM OXIDE POWDER

Revision 7

Revision date 2015-07-17

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

1.1. Product identifier

Product name	KEMET WHITE ALUMINIUM OXIDE POWDER
CAS No.	1344-28-1
EC No.	215-691-6

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;
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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

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

Main hazards	No Significant Hazard
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2.2. Label elements

Risk phrases	The product does not need to be labelled in accordance with EC directives or respective national laws. No Significant Hazard
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Further information

	Avoid contact with: Eyes due to the abrasive nature of the product.
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SECTION 3: Composition/information on ingredients

3.1. Substances

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3.1. Substances

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Aluminium Oxide (Aluminium oxides)		1344-28-1	215-691-6		90 - 100%		

EC 1272/2008

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Aluminium Oxide (Aluminium oxides)		1344-28-1	215-691-6		90 - 100%		

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. Seek medical attention.

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

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

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

Inhalation	If you feel unwell, seek medical advice (show the label where possible). Keep the affected person warm and at rest. Remove contaminated clothing. Wash contaminated clothing before reuse.
Ingestion	Ingestion may cause nausea and vomiting.

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 extinguishing media appropriate to the surrounding fire conditions. Use as appropriate: Carbon dioxide (CO ₂), Dry chemical, Foam.
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5.2. Special hazards arising from the substance or mixture

	above 200 C an exothermic reaction with halons may occur and toxic fumes of hydrochloric acid and phosgene may be formed in fire conditions.
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5.3. Advice for firefighters

	Protective equipment. 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

	Avoid raising dust. Ensure adequate ventilation of the working area. Wear suitable protective equipment. Avoid contact with skin and eyes.
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6.2. Environmental precautions

	Do not breathe dust. Do not flush into surface water. Do not let product contaminate subsoil.
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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. Avoid raising dust.
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6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid formation of dust. Appropriate local exhaust ventilation is required. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

7.3. Specific end use(s)

Use as Supplied. For use as a metal working lubricant/coolant in industrial applications only.

Suitable packaging

Plastic containers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

KEMET WHITE ALUMINIUM OXIDE POWDER (Aluminium oxides)	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 10 inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total 4 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. Use air extraction at working area.

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. Face shield.

Skin protection - Handprotection

Chemical resistant gloves (PVC).

Respiratory protection

Suitable half mask respirator with filter P3 (EN 143).

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	Powder
Colour	White
Odour	Odourless
Odour threshold	No data available
pH	No data available
Melting point	2038 C
Initial boiling point	2980
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	No data available
Vapour pressure	1 mm Hg @ 2158 C
Vapour density	No data available
Relative density	4 kg/m ³
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	Not applicable.
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Insoluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

	Stable under normal conditions.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	Strong oxidising agents. Strong acids and strong bases. Chlorine trifluoride, Ethylene oxide, Halocarbons, Oxygen difluoride, Sodium nitrate, Vinyl acetate.
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10.4. Conditions to avoid

	Moisture.
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10.5. Incompatible materials

	Chlorine trifluoride, Ethylene oxide, Halocarbons, Oxygen difluoride, Sodium nitrate, Vinyl acetate. Strong acids. Strong bases. Strong oxidising agents.
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10.6. Hazardous decomposition products

	Aluminium Oxide.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Inhalation of dust may cause shortness of breath. May be harmful by ingestion, inhalation or if absorbed through the skin.
Skin corrosion/irritation	May cause irritation to skin.
Respiratory or skin sensitisation	May cause sensitisation by skin contact.

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11.1. Information on toxicological effects

Carcinogenicity	No carcinogenic effects reported.
Repeated or prolonged exposure	Prolonged or repeated exposure may cause irritation to skin and mucous membranes. Prolonged exposure can cause damage to the lungs.

11.1.4. Toxicological Information

KEMET WHITE ALUMINIUM OXIDE POWDER	Oral Rat LD50: >10000 mg/kg
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	No data available.
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SECTION 12: Ecological information

12.1. Toxicity

	No data is available on this product.
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12.2. Persistence and degradability

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

	Does not bioaccumulate.
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Partition coefficient

	KEMET WHITE ALUMINIUM OXIDE 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

	No data available.
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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

	Dispose of as special waste in compliance with local and national regulations. Can be sent to landfill if in compliance with local and national regulations.
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Disposal of packaging

	Empty containers can be sent for disposal or recycling.
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SECTION 14: Transport information

14.1. UN number

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

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

	The product is not classified as dangerous for carriage.
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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.

ADR/RID

Not Regulated.

IATA

Not Regulated.

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:. 1 - EC No. 9 - 9.1. Information on basic physical and chemical properties (Odour). 9 - 9.1. Information on basic physical and chemical properties (Odour threshold). 11 - 11.1.4. Toxicological Information. 12 - 12.3. Bioaccumulative potential.
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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.