

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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KEMET LIQUID DIAMOND TYPE K

Revision 13
Revision date 2017-02-06

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

1.1. Product identifier

Product name	KEMET LIQUID DIAMOND TYPE K
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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;
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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

Local Supplier

Company	Kemet International Ltd
Address	Sutton Road Parkwood Trading Estate Maidstone Kent ME15 9NJ UK
Web	www.kemet.co.uk
Telephone	01622755287
Fax	01622670915
Email	sales@kemet.co.uk

1.4. Emergency telephone number

Emergency telephone number	01622755287
Company	Kemet International Ltd 09.00-17.00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	Xn; R65 R66 Symbols: Xn: Harmful.
Main hazards	Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or

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2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	cracking.
	: EUH066; Asp. Tox. 1: H304;

2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	EUH066 - Repeated exposure may cause skin dryness or cracking. Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Precautionary Statement: Response	P301+P310 - IF SWALLOWED: IF SWALLOWED: Immediately call a POISON CENTER/doctor/ . P331 - Do NOT induce vomiting.
Precautionary Statement: Storage	P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to

2.3. Other hazards

Other hazards	Avoid Static Electrical Discharge. May form Explosive/Flammable vapour/air mixtures.
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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.
Distillates (Petroleum) Hydrotreated		64742-47-8	917-488-4	01-2119458943-27	20 - 30%	Xn; R65 R66	
Light Kerosine-Unspecified							
Synthetic Diamond		7782-40-3	231-953-2		1 - 10%		

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Aqua		7732-18-5	231-791-2		60 - 70%		
Distillates (Petroleum) Hydrotreated		64742-47-8	917-488-4	01-2119458943-27	20 - 30%	: EUH066; Asp. Tox. 1: H304;	
Light Kerosine-Unspecified							
Synthetic Diamond		7782-40-3	231-953-2		1 - 10%		

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.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing.
Ingestion	DO NOT INDUCE VOMITING. Drink 1 to 2 glasses of water. Seek medical attention.

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

Inhalation	Upper respiratory irritation, irritation of nose, throat and airway. Nausea, vomiting. Unconsciousness and convulsions can occur.
Skin contact	Prolonged contact may cause redness, irritation and dryness.
Ingestion	Harmful if swallowed. The product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hrs) May

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

cause discomfort if swallowed, nausea, vomiting and central nervous system depression.

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

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

General information

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

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Wear: Self-contained breathing apparatus.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation of the working area. Keep personnel away from spill. Evacuate personnel to a safe area.

6.2. Environmental precautions

Do not allow product to enter drains.

6.3. Methods and material for containment and cleaning up

Clean spillage area thoroughly with plenty of water. Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal.

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**

Wear suitable protective equipment. Do not breathe gas/fumes/vapour/spray. Use in a well ventilated area.

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

Mild steel containers. Plastic containers. Polytetrafluoroethylene (PTFE). Stainless steel containers.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Mechanical ventilation recommended.

8.1.1. Exposure Limit Values


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8.1.1. Exposure Limit Values

Distillates (Petroleum) Hydrotreated Light Kerosine-Unspecified	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 1200
	WEL 15 min limit ppm: WEL 8-hr limit mg/m3 total inhalable dust: WEL 8-hr limit mg/m3 total respirable dust:	WEL 15 min limit mg/m3: WEL 15 min limit mg/m3 total inhalable dust: WEL 15 min limit mg/m3 total respirable dust:
Synthetic Diamond	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 10
	WEL 15 min limit ppm: WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3: 4 WEL 15 min limit mg/m3 total - inhalable 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. Mechanical ventilation recommended.
8.2.2. Individual protection measures	Avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying and dispensing. Apron (Plastic or rubber). Rubber boots.
Eye / face protection	Approved safety goggles. Avoid contact with eyes.
Skin protection - Handprotection	Use Chemical resistant gloves according to EN 374. Suitability and durability of the glove is dependant on glove material and duration of contact. Glove material, thickness and breakthrough time data is currently unavailable. Consult the glove manufacturer for further information. Fluorinated rubber - FKM (>0.5mm >480 min. >0.3mm > 60 mim). Nitrile rubber - NBR (> 0.3mm > 480 mins.).
Respiratory protection	Wear: Suitable respiratory equipment. Self-contained breathing apparatus. If mechanical ventilation is insufficient to maintain OEL below the specified limits as a temporary measure a respirator to EN143 P2 /P3 may be used. PPE should only be used when necessary and is not a substitute for mechanical ventilation.

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	A blend of water soluble lubricants, suspending agents, detergent and abrasive./Liquid
Colour	Cream/Off white
Odour	Characteristic
Odour threshold	No data available
pH	No data available
Melting point	Not applicable.
Initial boiling point	100 °C
Flash point	> 90 °C
Evaporation rate	No data available
Upper Explosive Limit	7 %
Lower Explosive Limit	0.6 %
Vapour pressure	No data available
Vapour density	No data available
Partition coefficient	No data available
Autoignition temperature	> 240
Viscosity	> 100 °C @ 20 °C
Solubility	Miscible in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Specific gravity	0.95 g/cm ³
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

	Avoid sparks, flames, heat and sources of ignition.
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10.2. Chemical stability

	Stable under normal conditions.
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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

	Heat, sparks and open flames.
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10.5. Incompatible materials

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

	Incomplete combustion will produce toxic and noxious fumes including carbon monoxide and carbon dioxide.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

	No data is available on this product.
Acute toxicity	Oral Rat LD50 = >5000 mg/kg. Dermal Rabbit LD50 = >5000 mg/kg. Inhalation Rat LC50/8 h = >5000 mg/l Vapours.

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11.1. Information on toxicological effects

Respiratory or skin sensitisation	There is no evidence that the material can lead to respiratory hypersensitivity. Not a skin sensitiser but prolonged contact can cause irritation and possible dermatitis.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No carcinogenic effects reported.
Reproductive toxicity	No teratogenic effects reported.
STOT-single exposure	No known effects based on the information supplied. Not relevant.
STOT-repeated exposure	No known effects based on the information supplied. Not relevant.
Aspiration hazard	The fluid can enter the lungs and cause damage.

11.1.4. Toxicological Information

Distillates (Petroleum) Hydrotreated Light Kerosine-Unspecified	Inhalation Rat LC50/8 h: >5000 mg/l vapour	Oral Rat LD50: >5000 mg/kg
	Dermal Rabbit LD50: >5000 mg/kg	

11.1.8. Symptoms related to the physical, chemical and toxicological characteristics

	May cause irritation to the respiratory system. In high concentrations vapours are narcotic and may cause headache, fatigue, dizziness and nausea along with CNS depression. If swallowed the product may enter the lungs due to its low viscosity and lead to the rapid development of serious pulmonary lesions. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May cause CNS depression. Prolonged contact may cause redness, irritation and dryness.
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SECTION 12: Ecological information

12.1. Toxicity

Distillates (Petroleum) Hydrotreated Light Kerosine-Unspecified	Daphnia EC50/48h: 1000.0000 mg/l	Algae IC50/72h: 1000.0000 mg/l
	Fish LC50/96h: 1000.0000 mg/l	Algae EC50/72h: >1000 mg/l
KEMET LIQUID DIAMOND TYPE K	Daphnia EC50/48h: 1000.0000 mg/l	Algae IC50/72h: 1000.0000 mg/l
	Fish LC50/96h: 1000.0000 mg/l	

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

	This product is expected to be readily biodegradable.
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12.3. Bioaccumulative potential

	The product is not expected to bioaccumulate. Not relevant. Substance is UVCB. Standard tests for this endpoint are not appropriate.
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Partition coefficient

	KEMET LIQUID DIAMOND TYPE K No data available
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12.4. Mobility in soil

	No data is available on this product. Substance is UVCB. Standard tests for this endpoint are not appropriate.
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12.5. Results of PBT and vPvB assessment

	No data available. Not classified as PBT/vPvB by current Eu Criteria.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

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13.1. Waste treatment methods

12 01 07 mineral- based machining oils free of halogens (except emulsions and solutions). 12 01 09 machining emulsions and solutions free of halogens. 12 01 10 synthetic machining oils. 12 01 15 machining sludges other than those mentioned in 12 01 14. 12 01 18 metal sludge (grinding, honing, and lapping sludge) containing oil. 12 01 21 spent grinding bodies and grinding materials other than those mentioned in 12 01 20. 12 01 wastes from shaping and physical and mechanical surface treatment of metals and plastics. 12 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS. 13 01 05 non-chlorinated emulsions. 13 02 05 mineral-based non chlorinated engine ,gear and lubricating oils. 13 02 06 synthetic engine, gear and lubricant oils. 13 02 07 readily biodegradable engine, gear and lubricating oils. 13 02 Waste engine ,gear and lubricating oils. 13 08 02 other emulsions. 13 08 99 wastes not otherwise specified. 13 08 oil waste not otherwise specified. 13 OIL WASTES AND WASTES OF LIQUID FUELS(except edible oils and those in chapters 15,12 and 19). 15 01 02 plastic packaging. 15 02 absorbents, filter materials, wiping cloths and protective clothing. 15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED.

General information

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

Disposal methods

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

Disposal of packaging

Empty containers can be sent for disposal or recycling.

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 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.

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

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

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 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.

SECTION 16: Other information**Other information**

Text of risk phrases in Section 3	R65 - Harmful: may cause lung damage if swallowed. R66 - Repeated exposure may cause skin dryness or cracking.
Text of Hazard Statements in Section 3	EUH066 - Repeated exposure may cause skin dryness or cracking. Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

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.