

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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KEMET LIQUID DIAMOND TYPE 3 KDS 1454

Revision 4

Revision date 2016-10-17

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

1.1. Product identifier

Product name	KEMET LIQUID DIAMOND TYPE 3 KDS 1454
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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;
Description	For industrial/research use only. See separate instruction sheet for correct method of use. Lubricants and lubricant additives.

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	nproper@kemet.co.uk

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Asp. Tox. 1: H304; Eye Irrit. 2: H319;
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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. Eye Irrit. 2: H319 - Causes serious eye irritation.
Precautionary Statement: Prevention	P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P301+P310 - IF SWALLOWED: IF SWALLOWED: Immediately call a POISON CENTER/doctor/ . P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331 - Do NOT induce vomiting. P337+P313 - If eye irritation persists: Get medical advice/attention.

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2.2. Label elements

Precautionary Statement: Storage	P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved waste disposal plant (in accordance with local/regional/national/international regulation).

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 light Paraffinic		64742-55-8	265-158-7	01-2119487077-29			
Polyoxyethylene Tridecyl Phosphate Ester		9046-01-9				Xi; R38-41	

EC 1272/2008

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Distillates (Petroleum) Hydrotreated light Paraffinic		64742-55-8	265-158-7	01-2119487077-29		Asp. Tox. 1: H304;	
Polyoxyethylene Tridecyl Phosphate Ester		9046-01-9				Skin Irrit. 2: H315; Eye Dam. 1: H318;	

Further information

	Note H in ASL applies to the product or one of its components. Components not listed in Annex 1 must be self classified. Note P in ASL applies to the product or one of its components. Benzene Concentration is <0.1% (w/w).
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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.
Eye contact	May cause irritation to eyes.
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 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.
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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.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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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. Do not allow runoff water to enter sewers or drains. Use water spray to keep containers cool.

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. Avoid contact with eyes and skin. Do not eat, drink or smoke in areas where this product is used or stored.

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**

Oil Mists must be kept below 5 mg/m³.

8.1.1. Exposure Limit Values

Distillates (Petroleum) Hydrotreated light Paraffinic	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m ³ : 5
	WEL 15 min limit ppm:	WEL 15 min limit mg/m ³ :
	WEL 8-hr limit mg/m ³ total - inhalable dust:	WEL 15 min limit mg/m ³ total - inhalable dust:
	WEL 8-hr limit mg/m ³ total - respirable dust:	WEL 15 min limit mg/m ³ total - respirable dust:

DNEL: Derived no-effect level.

Exposure Pattern - Workers

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Exposure Pattern - Workers

Distillates (Petroleum) Hydrotreated light Paraffinic	Long-term - inhalation - Local effects	5.4 mg/kg
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Exposure Pattern - General population

Distillates (Petroleum) Hydrotreated light Paraffinic	Long-term - inhalation - Local effects	1.2 mg/kg
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8.2. Exposure controls

	
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
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	Breakthrough time glove material and thickness data are currently not available. Contact the glove manufacturer for more information. Use Chemical resistant gloves according to EN 374. Suitability and durability of the glove is dependant on glove material and duration of contact.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. 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. Suitable half mask respirator with filter P3 (EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Off white/Grey
Odour	Characteristic
Odour threshold	No data available
pH	Not applicable.
Melting point	Not applicable.
Initial boiling point	280
Flash point	>130
Evaporation rate	<0.1
Flammability (solid, gas)	No data available
Vapour pressure	<0.1 mm Hg
Vapour density	>1
Relative density	0.86 g/cm ³
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	Not applicable.

9.2. Other information

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9.2. Other information

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

Water solubility

	Insoluble in water.
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Further information

	Liquid. May form Explosive/Flammable vapour/air mixtures.
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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. Aldehydes. Hydrocarbons.
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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 irritation to eyes.
Respiratory or skin sensitisation	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	Repeated or prolonged exposure may cause dermatitis.

11.1.4. Toxicological Information

Distillates (Petroleum) Hydrotreated light Paraffinic	Inhalation Rat LC50/>5 h: 4 (vapours)	Oral Rat LD50: >5000mg
	Dermal Rabbit LD50: >5000mg	
Polyoxyethylene Tridecyl Phosphate Ester	Oral Rat LD50: >2000 mg/kg	

SECTION 12: Ecological information

12.1. Toxicity

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12.1. Toxicity

Distillates (Petroleum) Hydrotreated light Paraffinic	Daphnia EC50/48h: 10000.0000 mg/l	Fish LC50/96h: 100.0000 mg/l
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No data is available on this product.

12.2. Persistence and degradability

This product is expected to be readily biodegradable.

12.3. Bioaccumulative potential

No data is available on this product.

Partition coefficient

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12.4. Mobility in soil

No data is available on this product.

12.5. Results of PBT and vPvB assessment

Caution - substance not yet fully tested. Not expected to be hazardous to aquatic species.

SECTION 13: Disposal considerations

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. 08 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS.

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

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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 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.

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:.

- 2 - 2.1. Classification of the substance or mixture.
- 15 - Labelling.
- 15 - Risk phrases.
- 15 - Safety phrases.

Text of risk phrases in Section 3

R38 - Irritating to skin.
R41 - Risk of serious damage to eyes.

Text of Hazard Statements in Section 3

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Skin Irrit. 2: H315 - Causes skin irritation.
Eye Dam. 1: H318 - Causes serious eye damage.

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.
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