SAFETY DATA SHEET

according to Regulation (EU) 2015/830

KEMET LUBRICATING FLUID TYPE OS

Revision 11

Revision date 2017-04-28

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

1.1. Product identifier

Product name	KEMET LUBRICATING FLUID TYPE OS

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; [PC25] Metal working fluids;
Description	For industrial/research use only. See seperate 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	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

KEMET LUBRICATING FLUID TYPE OS

2.1. Classification of the substance or mixture

Main hazards	Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking.
2.1.2. Classification - EC 1272/2008	: 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 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.

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 Oil		64742-47-8	926-141-6	01-2119456620-43	80 - 90%	Xn; R65 R66	
Tri Propylene Glycol Mono Methyl Ether		25498-49-1	247-045-4	01-2119450087-41	1 - 10%		

EC 1272/2008

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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. Unconsiousness 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

KEMET LUBRICATING FLUID TYPE OS

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

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

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. 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

8.1.1. Exposure Limit Values

KEMET LUBRICATING FLUID TYPE OS

8.1.1. Exposure Limit Values

Distillates (Petroleum) Hydrotreated Light Oil	**WEL 8-hr limit ppm:**		**WEL 8-hr limit mg/m3:**	1200 Supplier Information
	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:**	-
Tri Propylene Glycol Mono Methyl Ether	**WEL 8-hr limit ppm:**		**WEL 8-hr limit mg/m3:**	None assigned
	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:**	

DNEL: Derived no-effect level.

Exposure Pattern - Workers

Tri Propylene Glycol Mono Methyl Ether	**Long-term - inhalation - Local effects**	10 mg/m³
	Long-term - dermal - Local effects	16.08 mg/kg

Exposure Pattern - General population

Tri Propylene Glycol Mono Methyl Ether	**Long-term - inhalation - Local effects**	1.6 mg/m³		
	Long-term - dermal - Local effects	8.04 mg/kg	**Long-term - oral - Local effects**	8.04 mg/kg

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

KEMET LUBRICATING FLUID TYPE OS

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Violet
Odour	Characteristic
Odour threshold	No data available
pH	Not applicable.
Melting point	Not applicable.
Initial boiling point	175
Flash point	>75
Evaporation rate	No data available
Flammability (solid, gas)	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	No data available
Oxidising properties	No data available
Solubility	Slightly miscible in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Specific gravity	≈ 0.85 g/cm³
Softening point	Not applicable.
Pour point	Not applicable.
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	0 g/l

Further information

Liquid. May form Explosive/Flammable vapour/air mixtures.

SECTION 10: Stability and reactivity

10.1. Reactivity

Avoid sparks, flames, heat and sources of ignition.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None expected under normal conditions of use.

10.4. Conditions to avoid

Heat, sparks and open flames.

10.5. Incompatible materials

Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

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

KEMET LUBRICATING FLUID TYPE OS

Revision 11
Revision date 2017-04-28

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 Oil	**Inhalation Rat LC50/8 h:** >5000 mg/kg **Dermal Rabbit LD50:** >5000 mg/kg	**Oral Rat LD50:** >5000 mg/kg
Tri Propylene Glycol Mono Methyl Ether	**Dermal Rat LD50:** >15440	**Oral Rat LD50:** 3500

SECTION 12: Ecological information

12.1. Toxicity

Tri Propylene Glycol Mono Methyl Ether	**Fish LC50/96h:** 11619.0000 mg/l

	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

	KEMET LUBRICATING FLUID TYPE OS No data available **Tri Propylene Glycol Mono Methyl Ether** 0.31 log P	**Distillates (Petroleum) Hydrotreated Light Oil** No data available

12.4. Mobility in soil

	No data is available on this product.

12.5. Results of PBT and vPvB assessment

	Not classified as PBT/vPvB by current Eu Criteria.

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

KEMET LUBRICATING FLUID TYPE OS

13.1. Waste treatment methods

	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

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),

KEMET LUBRICATING FLUID TYPE OS

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

	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

	The risks related to the main ingredient, R66/EUH066 and R65/H304 relate to the potential for dermal contact and lung damage. The risks arising are solely related to the physico-chemical properties of the substance. The risks can therefore be controlled by implementing risk management measures tailored to the specific hazard so an exposure scenario is not required. WGK 1. Calculated Values.

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas:. 12 - 12.5. Results of PBT and vPvB assessment. 12 - 12.6. Other adverse effects. 15 - Further information. 16 - Further 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.
Maximum content of VOC	0 g/l.

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. Chemical exposure scenario data is available for the main ingredient.