

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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KEMOX TYPE O

Revision 19
Revision date 2017-02-21

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

1.1. Product identifier

Product name	KEMOX TYPE O
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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; [SU17] General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment; [PC14] Metal surface treatment products, including galvanic and electroplating products; [PROC24] High (mechanical) energy work-up of substances bound in materials and/or articles; [ERC4] Industrial use of processing aids in processes and products, not becoming part of articles;
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
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

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2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Asp. Tox. 1: H304;
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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.
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 light Paraffinic		64742-55-8	265-158-7	01-2119487077-29	90 - 100%		
Aluminium Oxide (Aluminium oxides)		1344-28-1	215-691-6	01-2119529248-35	1 - 10%		

EC 1272/2008

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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). IP 346 DMSO content <3% Note H applies Note L Applies.
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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

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

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.

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. In case of fire, use dry chemical, Carbon dioxide (CO₂), Foam.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Fire may cause evolution of hydrocarbons., Aldehydes, Carbon dioxide., Carbon monoxide.

5.3. Advice for firefighters

Do not allow runoff water to enter sewers or drains. Use water spray to keep containers cool. Wear self contained breathing apparatus and protective clothing.

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**

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8.1. Control parameters

Oil Mists must be kept below 5 mg/m3.

8.1.1. Exposure Limit Values

Aluminium Oxide (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 inhalable dust: 10	WEL 15 min limit mg/m3 total inhalable dust: -
	WEL 8-hr limit mg/m3 total respirable dust: 4	WEL 15 min limit mg/m3 total respirable dust: -
Distillates (Petroleum) Hydrotreated light Paraffinic	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 5
	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

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. Wear Splash-proof eye goggles manufactured and tested according to EN 166.
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. Breakthrough time glove material and thickness data are currently not available. Contact the glove manufacturer for more information. Nitrile rubber - NBR (, PVA, Viton >480 Mins).
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Not normally required.
8.2.3. Environmental exposure controls	Do not allow product to enter drains. Do not allow runoff water to enter sewers or drains.
Occupational exposure controls	Appropriate local exhaust ventilation is required. Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects.

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	Liquid
Colour	Off white/Amber
Odour	Characteristic
Odour threshold	No data available
pH	No data available
Melting point	Not applicable.
Initial boiling point	≈ 280
Flash point	> 145 °C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper Explosive Limit	7 %
Lower Explosive Limit	0.9 %
Vapour pressure	< 0.001 Pa
Vapour density	No data available
Relative density	≈ 0.9 kg/m ³
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	≈ 10 x 10 ⁻⁶ m ² /s @ 40 °C (ISO 3219)
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)	No data available

Water solubility

	Insoluble.
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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
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10.6. Hazardous decomposition products

carbon dioxide. Aldehydes. Hydrocarbons.

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.
STOT-single exposure	No known effects based on the information supplied.
STOT-repeated exposure	No known effects based on the information supplied.
Aspiration hazard	The fluid can enter the lungs and cause damage. May be fatal if swallowed and enters airways.
Repeated or prolonged exposure	Repeated or prolonged exposure may cause dermatitis.

11.1.4. Toxicological Information

Distillates (Petroleum) Hydrotreated light Paraffinic	Oral Rat LD50: >5000mg	Dermal Rabbit LD50: >5000mg
	Inhalation Rat LC50/4 h: >5 mg/l Vapours	

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

	May cause discomfort if swallowed. Gastrointestinal symptoms include upset stomach, nausea, vomiting and diarrhoea. 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.
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SECTION 12: Ecological information

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

The product is not readily biodegradable but is expected to be inherently biodegradable based on available information.

12.3. Bioaccumulative potential

No data is available on this product.

Partition coefficient

KEMOX TYPE O 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

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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. 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

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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.
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SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas: 2 - 2.1.2. Classification - EC 1272/2008. 2 - Hazard pictograms. 2 - Signal Word. 2 - Precautionary Statement: Response. 2 - Precautionary Statement: Storage. 2 - Precautionary Statement: Disposal. 9 - 9.1. Information on basic physical and chemical properties (Viscosity).
Text of Hazard Statements in Section 3	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.
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