SAFETY DATA SHEET REFRIGERATION LUBRICANT OIL

Safety Data Sheet KAELTEMASCHINENOEL BSE 170 L Issue Date: 30.10.2013 Revision Date: 09.05.2017

BSE 170 L

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

1.1 Product identifier

Product name: KAELTEMASCHINENOEL BSE 170 L

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Lubricant Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier	Fuchs Schmierstoffe GmbH Friesenheimer Str. 19 68169 Mannheim
Telephone:	+49 621 3701-0 (ZENTRALE)
Fax:	+49 621 3701-570
Contact Person:	Fuchs Schmierstoffe GmbH Abteilung Produktsicherheit
Telephone:	+49 621 3701-1333
Fax:	+49 621 3701-7303
E-mail:	produktsicherheit@fuchs-schmierstoffe.de
1.4 Emergency telephone number:	+49 621 3701-1333 / +49 621 3701-0 (Mo-Do 8-17, Fr 8-16)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended.

Environmental Haz	ards
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Chronic hazards to the aque onvironment	uatic Category 3	H412: Harmful to aquatic life with long lasting effects.
Hazard summary Physical Hazards:	No data available.	

2.2 Label Elements

Hazard Statement(s):	H412: Harmful to aquatic life with long lasting effects.
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	Precautionary Statemer	nt	
	Prevention:	P273: Avoid release to the environment.	
	Disposal:	P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.	
2.3 O	ther hazards:	By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.	

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information:

Mixture of synthetic base oils with additives.

Chemical name	Identifier		REACH Registration No.	Notes
aromatic phosphoric acid ester derivative	EINECS: 204-112-2	0,25 - <1,00%		

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Identifier	Classification	
aromatic phosphoric acid ester derivative	EINECS: 204-112-2	CLP:	Aquatic Acute 1;H400, Aquatic Chronic 1;H410

CLP: Regulation No. 1272/2008.

For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

General:

Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures		
Inhalation:	Supply fresh air; consult doctor in case of symptoms.	
Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids.	
Skin Contact:	Wash with soap and water.	
Ingestion:	Rinse mouth thoroughly.	
4.2 Most important symptoms and effects, both acute and delayed:	May cause skin and eye irritation.	

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4.3 Indication of any immediate medical attention and special treatment needed	Get medical attention	on if symptoms occur.	
ECTION 5: Firefighting measures	3		
5.1 Extinguishing media Suitable extinguishing media:	CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added		
Unsuitable extinguishing media:	Water with a full water jet.		
5.2 Special hazards arising from the substance or mixture:	During fire, gases hazardous to health may be formed.		
5.3 Advice for firefighters Special fire fighting procedures:	Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water inaccordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.		
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
ECTION 6: Accidental release m	easures		
5.1 Personal precautions, protective equipment and emergency procedures:	In case of spills, beware of slippery floors and surfaces.		
6.2 Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers). Environmental manager must be informed of all major spillages. Do not allow to enter drainage system, surface or ground water.		
6.3 Methods and material for containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.		
6.4 Reference to other sections:	See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.		
ECTION 7: Handling and storage	:		
7.1 Precautions for safe	Prevent formation of	aerosols. Do not eat, drink or smoke when working	

7.1 Precautions for safe
handling:Prevent formation of aerosols. Do not eat, drink or smoke when working
with the product. Take usual precautions when handling mineral oil

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7.2 Conditions for safe storage, including any incompatibilities:	Local regulations concerning handling and storage of waterpolluting products have to be followed. Do not heat up to temperatures close to the flash point.		
7.3 Specific end use(s):	not applicable		
Storage Class:	10, Combustible liquids		
SECTION 8: Exposure controls/personal protection			

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	type	Exposure Limit Values	Source
aromatic phosphoric acid ester derivative	STEL	6 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
aromatic phosphoric acid ester derivative	TWA	3 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

8.2 Exposure controls

Appropriate engineering controls:	Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measur	es, such as personal protective equipment
General information:	Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to inhandling the chemicals or the mineral oil products.
Eye/face protection:	Safety glasses (EN 166) recommended during refilling.
Skin protection Hand Protection:	Material: Nitrile butyl rubber (NBR). Min. Breakthrough time: >= 480 min Recommended thickness of the material: >= 0,38 mm Avoid long-term and repeated skin contact. Suitable gloves can be
	recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Other:	Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.
Respiratory Protection:	Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.

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Thermal hazards:		Not known.		
Hygiene measures:		Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.		
Environmental Controls: No data available.		No data available.		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Ар	pearance	
I	Physical state:	liquid
l	Form:	liquid
(Color:	Yellow
Od	or:	Characteristic
Od	or Threshold:	Not applicable for mixtures
рН	:	not applicable
Fre	ezing point:	Not applicable for mixtures
Во	iling Point:	Value not relevant for classification
Fla	sh Point:	250 °C
Ev	aporation Rate:	Not applicable for mixtures
Fla	mmability (solid, gas):	Value not relevant for classification
Fla	mmability Limit - Upper (%)–:	Not applicable for mixtures
Fla	mmability Limit - Lower (%)–:	Not applicable for mixtures
Va	por pressure:	Not applicable for mixtures
Va	por density (air=1):	Not applicable for mixtures
De	nsity:	0,96 g/ml (15,00 °C)
So	lubility(ies)	
;	Solubility in Water:	Insoluble in water
:	Solubility (other):	No data available.
Ра	rtition coefficient (n-octanol/water):	Not applicable for mixtures
Au	toignition Temperature:	Value not relevant for classification
De	composition Temperature:	Value not relevant for classification
Kir	nematic viscosity:	100 mm2/s (40 °C)
	plosive properties:	Value not relevant for classification
	idizing properties:	Value not relevant for classification
9.2 Otl	ner information	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal use conditions.
10.2 Chemical Stability:	Stable under normal use conditions.

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	0.3 Possibility of hazardous Stable under normal use conditions. reactions:			
10.4 0	0.4 Conditions to avoid: Stable under normal use conditions.			
10.5 I	ncompatible Materials:	Strong oxidizing substances. Strong acids. Strong bases.		
	Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.		
SECTION 11: Toxicological information				
11.1 Information on toxicological effects				
A	Acute toxicity			
C	Dral Product:	Not classified for acute toxicity based on available data.		
0	Dermal Product:	Not classified for a	acute toxicity based on available data.	
lı	nhalation Product:	Not classified for acute toxicity based on available data.		
S	Skin Corrosion/Irritation: Product:	Based on available data, the classification criteria are not met.		
S	Serious Eye Damage/Eye Irr Product:	ritation: Based on available data, the classification criteria are not met.		
F	Respiratory or Skin Sensitiz Product:	biratory or Skin Sensitization: Skin sensitizer: Based on available data, the classification criteria are met. Respiratory sensitizer: Based on available data, the classification criteria are not met.		
C	Serm Cell Mutagenicity Product:	Based on available data, the classification criteria are not met.		
C	Carcinogenicity Product:	Based on available data, the classification criteria are not met.		
F	Reproductive toxicity Product:	Based on available data, the classification criteria are not met.		
S	Specific Target Organ Toxicity - Single Exposure Product: Based on available data, the classification criteria are not met.			

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	Specific Target Organ Toxicity - Repeated Exposure Product: Based on available data, the classification criteria are not met.			
	piration Hazard Product:	Based on available data, the classification criteria are not met.		
Oth	ner Adverse Effects:	No data available.		
SECTION	N 12: Ecological informati	ion		
12.1 To	xicity			
	ute toxicity Product:	Based on available data, the classification criteria are not met.		
S	ish pecified substance(s) aromatic phosphoric acid ester derivative	LC 50 (Fish, 96 h): 0,8 mg/l		
S	quatic Invertebrates pecified substance(s) aromatic phosphoric acid ester derivative	EC 50 (Water Flea, 48 h): 0,202 mg/l		
C	hronic ToxicityProduct:	Based on available data, the classification criteria are met.		
12.2 Pe	rsistence and Degradabili	ity		
	degradation roduct:	Not applicable for mixtures		
	paccumulative Potential Product:	Not applicable for mixtures		
	bility in Soil: roduct:	Not applicable for mixtures		
	sults of PBT and vPvB sessment:	The product does not contain any substances fulfilling the PBT/vPvB criteria.		
12.6 Oth	ner Adverse Effects:	Harmful to aquatic life with long lasting effects.		
	ter Hazard Class GK):	WGK 1: slightly water-endangering.		
SECTION	N 13: Disposal considerat	ions		
12 1 Ma	este treatment methods			

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

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Disposal methods:	Discharge, treatm laws.	ent, or disposal may be subject to national, state, or loca
European Waste Codes		
	13 02 08*: other e	ngine, gear and lubricating oils
CTION 14: Transport information	า	
DR/RID		
14.1 UN Number: 14.2 UN Proper Shipping Name:	_	
14.3 Transport Hazard Class(es)		
Class: Non-dangerous goods		erous goods
Label(s): –		
Hazard No. (ADR): Tunnel restriction code:	_	
14.4 Packing Group:	_	
14.5 Environmental hazards:	_	
14.6 Special precautions for use	r: –	
DN		
14.1 UN Number:	_	
14.2 UN Proper Shipping Name:		
14.3 Transport Hazard Class(es) Class:	4.3 Transport Hazard Class(es) Class: Non-dangerous goods	
Label(s):	–	
14.3 Packing Group:	_	
14.5 Environmental hazards:	-	
14.6 Special precautions for use	I. –	
MDG		
14.1 UN Number: 14.2 UN Proper Shipping Name:	_	
14.3 Transport Hazard Class(es)		
Class:		erous goods
Label(s):	_	
EmS No.:	_	
14.3 Packing Group: 14.5 Environmental hazards:	_	
14.6 Special precautions for use	r: –	
ATA		
14.1 UN Number:	_	
14.2 Proper Shipping Name:	_	
14.3 Transport Hazard Class(es)		
Class: Label(s):	Non-dang	erous goods
14.4 Packing Group:	_	
14.5 Environmental hazards:	_	
14.6 Special precautions for use	r.	

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable.

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SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

15.2 Chemical safety No Chemical Safety Assessment has been carried out. **assessment:**

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the H-statements in section 2 and 3

H400 V	Very toxic to aquatic life.
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H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Other information:The classification is in line with current EC lists. It is expanded, however, by
information from technical literature and by information furnished by supplier
companies. The classification results from the Conventional Method
mentioned in regulation EU 1272/2008 (CLP).

 Revision Date:
 02.09.2016

 Disclaimer:
 The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge belief. It characterizes the product only with regard to safety requirement handling, transport and disposal. The data do not describe the product

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