

Compressor oil LUKOIL KS-19p grade A

Version	Revision Date:	Product code:	Date of last issue: -
1.0	17.01.2017	0253721401	Date of first issue: 17.01.2017
			Print Date: 17.01.2017

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

1.1 Product identifier

Trade name : Compressor oil LUKOIL KS-19p grade A
Product code : 0253721401

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

Use of the Sub- : Engine oil
stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : OOO «LLK-International»
Malaya Yakimanka str. 6
119180 Moscow
Russian Fed.
www.lukoil-lubricants.com

Address of manufacture:
40 let VLKSM str. 55
400029 Volgograd
Russian Fed.

Only representative:
LUKOIL LUBRICANTS EAST EUROPE S.R.L.
Tipografilor Str., A-2 building, GF 11-15
013714 Bucharest
Romania
Telephone: +40 212272350
Fax: +40 212323295

Telephone : +7 495 627-40-20
Responsible/issuing person : info.product-safety@lukoil.com

1.4 Emergency telephone number

Telephone : 24h/5d
+7-800-1000-911

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting effects.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
Disposal:
P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Material can create slippery conditions.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture
Hydrocarbons
Additives

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3. :			
residual oils (petroleum), hydrotreated	64742-57-0 265-160-8 01-2119489287-22-0007		>= 85 - <= 95
distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 01-2119484627-25-0035		>= 5 - <= 15
Butyl hydroxytoluene	128-37-0 204-881-4 01-2119555270-46	Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 0,25 - < 1

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Never give anything by mouth to an unconscious person.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Wash off with warm water and soap.
If on clothes, remove clothes.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Do NOT induce vomiting.
Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Gastrointestinal discomfort
Stomach/intestinal disorders
Vomiting
Pneumonia
irritant effects
- Risks : May cause eye irritation.
Aspiration may cause pulmonary oedema and pneumonitis.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Later control for pneumonia and lung oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Dry powder
Foam
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Vapours are heavier than air and may spread along floors.
Vapours may form explosive mixtures with air.

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5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Extinguishing media - large fires
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : First aider needs to protect himself. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment. The danger areas must be delimited and identified using relevant warning and safety signs. Refer to section 15 for specific national regulation.

6.2 Environmental precautions

- Environmental precautions : Prevent further leakage or spillage. Avoid subsoil penetration. Do not contaminate water. Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up with oil absorbent material. Offer surplus and non-recyclable solutions to a licensed disposal company.

6.4 Reference to other sections

- For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Take care to avoid waste and spillage when weighing, loading and mixing the product. Use only in area provided with appropriate exhaust ventilation. Provide exhaust ventilation close to floor level. Do not get on skin or clothing. Avoid inhalation, ingestion and contact with skin and eyes.
- Advice on protection against fire and explosion : To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and sources of ignition.

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Keep in a banded area.
 Do not smoke.
 Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

- Hygiene measures : Do not get in eyes.
 Take off all contaminated clothing immediately.
 Keep contaminated clothing under water.
 Remove all contaminated clothing under the shower.
- Fire-fighting class : Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place.
- Further information on storage conditions : Keep away from heat and sources of ignition.
- Advice on common storage : Do not store together with explosives, gases, oxidizing solids, products which form flammable gases in contact with water, oxidizing products, infectious products and radioactive products.
 Do not store together with oxidizing and self-igniting products.
 Do not store together with explosives, oxidizing agents, organic peroxides and infectious products.
 Do not store together with acids and ammonium salts.
- Other data : Keep away from direct sunlight.

7.3 Specific end use(s)

- Specific use(s) : For further information, refer to the product technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Further occupational exposure limits

Description	Value type	Control parameters	Basis
TWA - 8 h	TWA	5 mg/m ³ (Mineral oils)	RU OEL

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:
 No data available

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8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Nitrile rubber
Break through time : 480 min
Glove thickness : 0,40 mm
Directive : DIN EN 374
Viton (R)
480 min
0,70 mm
DIN EN 374
butyl-rubber
120 min
0,70 mm
DIN EN 374
Neoprene
60 min
0,60 mm
DIN EN 374

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special work-place conditions (mechanical strain, duration of contact). Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Skin and body protection : Flame retardant protective clothing
Workers should wear antistatic footwear.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
Respirator with filter type A
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
Suitable respiratory equipment:
Self-contained breathing apparatus (EN 133)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Appearance	: liquid
Colour	: tan
Odour	: No data available
Odour Threshold	: No data available
pH	: No data available
pour point	: -16 °C
	: No data available
Flash point	: 270 °C Method: Cleveland open cup
Evaporation rate	: No data available
Burning rate	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Density	: 0,893 g/cm ³ (20 °C)
Bulk density	: No data available
Water solubility	: < 0,01 g/l (20 °C, 1.013 mbar)
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: not determined
Auto-ignition temperature	: 377 °C
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: 395 mm ² /s (40 °C)
Flow time	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

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9.2 Other information

Self-heating substances : No data available
Impact sensitivity : No data available
Surface tension : No data available
: No data available
Molecular weight : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is chemically stable.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : No data available
Acute inhalation toxicity : No data available
Acute dermal toxicity : No data available

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Acute toxicity (other routes of administration) : No data available

Components:

residual oils (petroleum), hydrotreated:

Acute oral toxicity : LD50 Rat: > 5.000 mg/kg
Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 Rat: > 5,53 mg/l
Exposure time: 4 h
Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 Rabbit: > 2.000 mg/kg
Information given is based on data obtained from similar substances.

distillates (petroleum), hydrotreated heavy paraffinic:

Acute oral toxicity : LD50 Oral Rat: > 5.000 mg/kg
Method: OECD Test Guideline 401
Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 Rat: > 5,53 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 Dermal Rat: > 2.000 mg/kg
Method: OECD Test Guideline 402
Information given is based on data obtained from similar substances.

Skin corrosion/irritation

Product:

slight irritation
Non persistent irritation

Serious eye damage/eye irritation

Product:

Non persistent irritation

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Respiratory or skin sensitisation

Product:

No known sensitising effect.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : No data available

Genotoxicity in vivo : No data available

Germ cell mutagenicity- Assessment : No data available

Carcinogenicity

Product:

This information is not available.

Carcinogenicity - Assessment : No data available

Components:

distillates (petroleum), hydrotreated heavy paraffinic:

Carcinogenicity - Assessment : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

Reproductive toxicity

Product:

Effects on fertility : This information is not available.

Effects on foetal development : This information is not available.

Reproductive toxicity - Assessment : No data available

STOT - single exposure

Product:

No data available

STOT - repeated exposure

Product:

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No data available

Repeated dose toxicity

Product:

This information is not available.

Repeated dose toxicity - Assessment : No data available

Aspiration toxicity

Product:

No data available

Further information

Product:

No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish (Chronic toxicity) : No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No data available

Ecotoxicology Assessment
Acute aquatic toxicity : No data available

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Components:

residual oils (petroleum), hydrotreated:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h

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Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10.000 mg/l
Information given is based on data obtained from similar substances.

Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Information given is based on data obtained from similar substances.

Toxicity to bacteria : NOEL (Photobacterium phosphoreum): > 1,93 mg/l
Exposure time: 4 d
Test Type: Respiration inhibition of activated sludge
Information given is based on data on the components and the ecotoxicology of similar products.

distillates (petroleum), hydrotreated heavy paraffinic:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Information given is based on data obtained from similar substances.

NOEL : >= 100 mg/l

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10.000 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Information given is based on data obtained from similar substances.

NOEL : >= 10.000 mg/l

Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
Information given is based on data obtained from similar substances.

12.2 Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.

Physico-chemical removability : The product is insoluble and floats on water.
May be separated mechanically in waste water plants.

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Impact on Sewage Treatment : No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : No data available

Partition coefficient: n-octanol/water : not determined

12.4 Mobility in soil

Product:

Mobility : Should not be released into the environment.

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Additional ecological information : Should not be released into the environment.
Do not let product enter drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

13 02 05*

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

15 01 10*

SECTION 14: Transport information

14.1 UN number

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ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods
ADN : Not dangerous goods

14.2 Proper shipping name

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods
ADN : Not dangerous goods

14.3 Transport hazard class

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods
ADN : Not dangerous goods

14.4 Packing group

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods
ADN : Not dangerous goods
Special Provisions : Packed / Inland tanker

14.5 Environmental hazards

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods
ADN : Not dangerous goods

14.6 Special precautions for user

Remarks : not required

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : This product is being carried under the scope of MARPOL Annex I

SECTION 15: Regulatory information

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

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Directive 1999/13/EC on the limitation of emissions of volatile organic compounds : not required under normal use

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

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

Full text of other abbreviations

Aquatic Acute : Acute aquatic toxicity
Aquatic Chronic : Chronic aquatic toxicity

Further information

Other information : Changes since the last version are highlighted in the margin.
This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.

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