

LUKOIL GENESIS SPECIAL C4 5W-30

Version	Revision Date:	Product code:	Date of last issue: -
1.0	22.05.2018	0253140846	Date of first issue: 22.05.2018
			Print Date: 22.05.2018

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

1.1 Product identifier

Trade name : LUKOIL GENESIS SPECIAL C4 5W-30
Product code : 0253140846

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:
Promishlennaya str. 84
614055 Perm
Russian Fed.

Only representative:
LUKOIL LUBRICANTS EAST EUROPE S.R.L.
Tipografilor Str., A-2 building, GF 11-15
013714 Bucharest
Romania
Telephone: +40 244 504 654
Fax: +40 244 504 801

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.

LUKOIL GENESIS SPECIAL C4 5W-30

Version	Revision Date:	Product code:	Date of last issue: -
1.0	22.05.2018	0253140846	Date of first issue: 22.05.2018
			Print Date: 22.05.2018

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.

Additional Labelling:

EUH208 Contains: N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine. May produce an allergic reaction.

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. None known.

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. :			
distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 01-2119484627-25	Asp. Tox.1; H304	>= 35 - <= 55
baseoil - unspecified*			>= 25 - <= 45
bis(nonylphenyl)amine	36878-20-3 253-249-4 01-2119488911-28	Aquatic Chronic4; H413	>= 1 - < 2,5

LUKOIL GENESIS SPECIAL C4 5W-30

Version 1.0 Revision Date: 22.05.2018 Product code: 0253140846 Date of last issue: -
Date of first issue: 22.05.2018
Print Date: 22.05.2018

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate	125643-61-0 406-040-9 01-0000015551-76	Aquatic Chronic4; H413	>= 1 - < 2,5
phenol, dodecyl-, branched	121158-58-5 310-154-3 01-2119513207-49	Eye Dam.1; H318 Skin Corr.1C; H314 Aquatic Chronic1; H410 Aquatic Acute1; H400 Repr.1B; H360F	>= 0,1 - < 0,25
N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine	91273-04-0	Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Chronic2; H411	>= 0,1 - < 0,25

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Treat symptomatically.
- If inhaled : If breathed in, move person into fresh air.
- In case of skin contact : Wash off with warm water and soap.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.

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.
Risk of product entering the lungs on vomiting after ingestion.
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.

LUKOIL GENESIS SPECIAL C4 5W-30

Version	Revision Date:	Product code:	Date of last issue: -
1.0	22.05.2018	0253140846	Date of first issue: 22.05.2018
			Print Date: 22.05.2018

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.
Cool closed containers exposed to fire with water spray.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Complete suit protecting against chemicals

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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 : Use personal protective equipment.
Avoid contact with skin, eyes and clothing.
Ensure adequate ventilation, especially in confined areas.
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.
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.

6.4 Reference to other sections

For personal protection see section 8.

LUKOIL GENESIS SPECIAL C4 5W-30

Version	Revision Date:	Product code:	Date of last issue: -
1.0	22.05.2018	0253140846	Date of first issue: 22.05.2018
			Print Date: 22.05.2018

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 with adequate ventilation.
Avoid formation of aerosol.
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.
Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.
Take measures to prevent the build up of electrostatic charge.
Keep away from heat and sources of ignition.
Keep in a bunded area.
Do not smoke.
- Hygiene measures : Take off all contaminated clothing immediately.

General industrial hygiene practice.
- 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

LUKOIL GENESIS SPECIAL C4 5W-30

Version 1.0 Revision Date: 22.05.2018 Product code: 0253140846 Date of last issue: -
 Date of first issue: 22.05.2018
 Print Date: 22.05.2018

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

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate : End Use: Workers
 Exposure routes: Skin contact
 Potential health effects: Acute systemic effects
 Value: 20 mg/kg
 End Use: Workers
 Exposure routes: Skin contact
 Potential health effects: Acute local effects
 Value: 1 mg/cm²
 End Use: Workers
 Exposure routes: Skin contact
 Potential health effects: Long-term systemic effects
 Value: 0,22 mg/kg
 End Use: Workers
 Exposure routes: Skin contact
 Potential health effects: Long-term local effects
 Value: 0,006 mg/cm²

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

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate : Fresh water
 Value: 0,0043 mg/l
 Marine water
 Value: 0,00043 mg/l
 Fresh water sediment
 Value: 233 mg/kg
 Marine sediment
 Value: 23,3 mg/kg
 Soil
 Value: 189 mg/kg

8.2 Exposure controls

Engineering measures

Provide adequate ventilation.

Personal protective equipment

Eye protection : If splashes are likely to occur, wear:

LUKOIL GENESIS SPECIAL C4 5W-30

Version	Revision Date:	Product code:	Date of last issue: -
1.0	22.05.2018	0253140846	Date of first issue: 22.05.2018
			Print Date: 22.05.2018

Safety glasses with side-shields conforming to EN166

Hand protection

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

Remarks : Protective gloves complying with EN 374.

This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us.
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
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 : Wear suitable protective equipment.

Respiratory protection : No personal respiratory protective equipment normally required.

Protective measures : Avoid contact with the skin and the eyes.
Do not breathe vapours or spray mist.
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
Please follow all applicable local/national requirements when selecting protective measures for a specific workplace.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

LUKOIL GENESIS SPECIAL C4 5W-30

Version	Revision Date:	Product code:	Date of last issue: -
1.0	22.05.2018	0253140846	Date of first issue: 22.05.2018
			Print Date: 22.05.2018

Colour	:	tan
Odour	:	No data available
Odour Threshold	:	No data available
pH	:	No data available
pour point	:	-42 °C
	:	No data available
Flash point	:	225 °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	:	0,845 g/cm ³ (20 °C)
Bulk density	:	No data available
Water solubility	:	< 0,01 g/l (20 °C)
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	not determined
Auto-ignition temperature	:	No data available
Ignition temperature	:	No data available
Thermal decomposition	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	71 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.

9.2 Other information

LUKOIL GENESIS SPECIAL C4 5W-30

Version	Revision Date:	Product code:	Date of last issue: -
1.0	22.05.2018	0253140846	Date of first issue: 22.05.2018
			Print Date: 22.05.2018

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 : Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Based on available data, the classification criteria are not met.

Acute dermal toxicity : Based on available data, the classification criteria are not met.

Acute toxicity (other routes of :

LUKOIL GENESIS SPECIAL C4 5W-30

Version	Revision Date:	Product code:	Date of last issue: -
1.0	22.05.2018	0253140846	Date of first issue: 22.05.2018
			Print Date: 22.05.2018

administration) No data available

Components:

distillates (petroleum), hydrotreated heavy paraffinic:

Acute oral toxicity : LD50 Oral 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
Test atmosphere: Aerosol
Information given is based on data obtained from similar substances.

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

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

Acute oral toxicity : LD50 Rat: > 2.000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Rat: > 2.000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

slight irritation
Non persistent irritation
Based on available data, the classification criteria are not met.

Components:

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

Species: Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404

Serious eye damage/eye irritation

Product:

Non persistent irritation
Based on available data, the classification criteria are not met.

Components:

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

LUKOIL GENESIS SPECIAL C4 5W-30

Version	Revision Date:	Product code:	Date of last issue: -
1.0	22.05.2018	0253140846	Date of first issue: 22.05.2018
			Print Date: 22.05.2018

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Product:

Exposure routes: Skin contact
Result: May cause sensitisation of susceptible persons.

Exposure routes: Inhalation
No known sensitising effect.
Based on available data, the classification criteria are not met.

Components:

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

Species: Guinea pig
Result: Does not cause skin sensitisation.
Method: OECD Test Guideline 406

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Based on available data, the classification criteria are not met.

Genotoxicity in vivo : Based on available data, the classification criteria are not met.

Germ cell mutagenicity- Assessment : Based on available data, the classification criteria are not met.

Components:

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Product:

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

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)

baseoil - unspecified*:

Carcinogenicity - Assessment : Classified based on DMSO extract content < 3% (Regulation

LUKOIL GENESIS SPECIAL C4 5W-30

Version	Revision Date:	Product code:	Date of last issue: -
1.0	22.05.2018	0253140846	Date of first issue: 22.05.2018
			Print Date: 22.05.2018

ment (EC) 1272/2008, Annex VI, Part 3, Note L)

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:
Carcinogenicity - Assessment : No data available
ment

Reproductive toxicity

Product:

Effects on fertility : This information is not available.

Effects on foetal development : This information is not available.

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

Components:

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:
Reproductive toxicity - Assessment : No data available

STOT - single exposure

Product:

Based on available data, the classification criteria are not met.

STOT - repeated exposure

Product:

Based on available data, the classification criteria are not met.

Repeated dose toxicity

Product:

This information is not available.

Repeated dose toxicity - Assessment : No data available

Aspiration toxicity

Product:

No aspiration toxicity classification

Further information

LUKOIL GENESIS SPECIAL C4 5W-30

Version	Revision Date:	Product code:	Date of last issue: -
1.0	22.05.2018	0253140846	Date of first issue: 22.05.2018
			Print Date: 22.05.2018

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:

distillates (petroleum), hydrotreated heavy paraffinic:

Toxicity to fish : LL50 (Fish): > 100 mg/l
Information given is based on data obtained from similar substances.

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

Toxicity to algae : NOEL (algae): > 100 mg/l
Information given is based on data obtained from similar substances.

Toxicity to fish (Chronic toxicity) : NOEL: 10 mg/l
Species: Fish
Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL: 10 mg/l
Information given is based on data obtained from similar substances.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL C4 5W-30

Version 1.0 Revision Date: 22.05.2018 Product code: 0253140846 Date of last issue: -
Date of first issue: 22.05.2018
Print Date: 22.05.2018

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 74 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 3 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

phenol, dodecyl-, branched:

- Toxicity to fish : LC50 (Fat head minnow): 40 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,037 mg/l
Exposure time: 48 h

EC50 (Mysidopsis bahia (opossum shrimp)): > 0,58 mg/l
Exposure time: 96 h
- Toxicity to algae : EC50 (Scenedesmus quadricauda (Green algae)): 0,36 mg/l
Exposure time: 48 h
- M-Factor (Acute aquatic toxicity) : 10
- Toxicity to bacteria : EC50 : > 1.000 mg/l
Exposure time: 0,1 d
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50: 0,0079 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

NOEC: 0,0037 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
- M-Factor (Chronic aquatic toxicity) : 10

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.

LUKOIL GENESIS SPECIAL C4 5W-30

Version	Revision Date:	Product code:	Date of last issue: -
1.0	22.05.2018	0253140846	Date of first issue: 22.05.2018
			Print Date: 22.05.2018

Impact on Sewage Treatment : No data available

Components:

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

Biodegradability : Result: Not biodegradable
Method: OECD Test Guideline 301B

phenol, dodecyl-, branched:

Biodegradability : Biodegradation: 25 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

Product:

Bioaccumulation : No data available

Partition coefficient: n-octanol/water : not determined

Components:

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): 260
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 9,2

phenol, dodecyl-, branched:

Bioaccumulation : Bioconcentration factor (BCF): 794,33

Partition coefficient: n-octanol/water : log Pow: 7,14

12.4 Mobility in soil

Product:

Mobility : No data available

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.

LUKOIL GENESIS SPECIAL C4 5W-30

Version	Revision Date:	Product code:	Date of last issue: -
1.0	22.05.2018	0253140846	Date of first issue: 22.05.2018
			Print Date: 22.05.2018

12.6 Other adverse effects

Product:

Additional ecological information : 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 06*

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
Dispose of in accordance with local regulations.
15 01 10*

SECTION 14: Transport information

14.1 UN number

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

LUKOIL GENESIS SPECIAL C4 5W-30

Version	Revision Date:	Product code:	Date of last issue: -
1.0	22.05.2018	0253140846	Date of first issue: 22.05.2018
			Print Date: 22.05.2018

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 : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

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

LUKOIL GENESIS SPECIAL C4 5W-30

Version	Revision Date:	Product code:	Date of last issue: -
1.0	22.05.2018	0253140846	Date of first issue: 22.05.2018
			Print Date: 22.05.2018

SECTION 16: Other information

Full text of H-Statements

H304 : May be fatal if swallowed and enters airways.
H314 : Causes severe skin burns and eye damage.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H360F : May damage fertility.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.
H413 : May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

Aquatic Acute : Acute aquatic toxicity
Aquatic Chronic : Chronic aquatic toxicity
Asp. Tox. : Aspiration hazard
Eye Dam. : Serious eye damage
Repr. : Reproductive toxicity
Skin Corr. : Skin corrosion
Skin Sens. : Skin sensitisation

Further information

Other information : baseoil - unspecified*
CAS-No.
REACH No.
64742-70-7/01-2119487080-42
64742-54-7/01-2119484627-25;64742-65-0/01-2119471299-
27;64742-55-8/01-2119487077-29;64742-56-9/01-
2119480132-48
Changes since the last version are highlighted in the margin.
This version replaces all previous versions.

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