

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

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

1.1 Product identifier

Trade name : LUKOIL GENESIS SPECIAL VN 5W-30
Product code : 563113

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 : Lukoil Lubricants Europe Oy
Ölhafen Lobau – Uferstr. 8
1220 Wien
Austria

Telephone : +43 (1) 205 222 - 8800
Responsible/issuing person : info.product-safety@lukoil.com

1.4 Emergency telephone number

Telephone : +43 (1) 205 222 – 8800
(5d/08:00 – 17:00)

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.

Classification (67/548/EEC, 1999/45/EC)

Dangerous for the environment R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

P501

Dispose of contents/ container to an approved waste disposal plant.

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 (67/548/EEC)	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. :				
zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl)bis(phosphorodithioate)	2215-35-2 218-679-9	Xi-N; R38-R41-R51/53	Skin Irrit.2; H315 Eye Dam.1; H318 Aquatic Chronic2; H411	>= 0,1 - < 1
2,6-di-tert-butylphenol	128-39-2 204-884-0	N; N; R50/53	Skin Irrit.2; H315 Aquatic Chronic1; H410 Aquatic Acute1; H400	>= 0,1 - < 1
diphenylamine	122-39-4 204-539-4	N; R50-R53 R33 T; R23/24/25	Acute Tox.3; H301 Acute Tox.3; H311 Acute Tox.3; H331 STOT RE2; H373 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 0,1 - < 0,25
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	84605-29-8 283-392-8	N-Xi; R38-R41-R51/53	Aquatic Chronic2; H411 Skin Irrit.2; H315 Eye Dam.1; H318	>= 0,1 - < 1

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

Phenol, dodecyl-, branched	121158-58-5 310-154-3	N; R50/53 Xi; R36/38-R62	Skin Irrit.2; H315 Eye Irrit.2; H319 Repr.2; H361 Aquatic Acute1; H400 Aquatic Chronic1; H410	$\geq 0,1 - < 0,25$
baseoil - unspecified	distillates (petroleum), hydrotreated heavy paraffinic 265-157-1		Asp. Tox.1; H304	≤ 35

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : First aider needs to protect himself.
- If inhaled : If breathed in, move person into fresh air.
Move to fresh air in case of accidental inhalation of vapours.
- In case of skin contact : Wash skin thoroughly with soap and water or use recognized skin cleanser.
If on clothes, remove clothes.
- In case of eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Do NOT induce vomiting.
Obtain medical attention.
When symptoms persist or in all cases of doubt seek medical advice.

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 VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

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.
Extinguishing media - large fires Complete suit protecting against chemicals

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 : Keep people away from and upwind of spill/leak.
Use personal protective equipment.
First aider needs to protect himself.
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.
Do not contaminate water.
Prevent product from entering drains.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.
Soak up with oil absorbent material.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

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.
Avoid formation of aerosol.
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.
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 | : Remove all contaminated clothing under the shower.
Wash contaminated clothing before re-use.
Do not get in eyes.
Avoid contact with skin and clothing. |
| 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 tightly closed.
Keep in a well-ventilated place.
To prevent leaks or spillages from spreading, provide a suitable liquid retention system. |
| 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, organ- |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

ic peroxides and infectious products.
Do not store together with acids and ammonium salts.

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

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
diphenylamine	122-39-4	TWA	10 mg/m ³	GB EH40
diphenylamine	122-39-4	STEL	20 mg/m ³	GB EH40
diphenylamine	122-39-4	TWA	10 mg/m ³	GB EH40
diphenylamine	122-39-4	STEL	20 mg/m ³	GB EH40

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

No data available

8.2 Exposure controls

Personal protective equipment

Eye protection : Wear the following personal protective equipment:
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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

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

Appearance	: liquid
Colour	: brown
Odour	: No data available
Odour Threshold	: No data available
pH	: No data available
pour point	: < -36 °C Method: ISO 3016
	: No data available
Flash point	: > 180 °C Method: ISO 2592
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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

Density	: 850 kg/m ³ (15 °C) Method: DIN 51757
Bulk density	: No data available
Water solubility	: < 0,01 g/l (20 °C)
Solubility in other solvents	: No data available
Auto-ignition temperature	: not auto-flammable
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: not determined
Viscosity, kinematic	: 12 mm ² /s (100 °C) Method: ISO 3104 65 mm ² /s (40 °C) Method: ISO 3104
Flow time	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

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 : Incompatible with strong acids and oxidizing agents.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

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 : Acute toxicity estimate : > 2.000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg
Method: Calculation method

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

Components:

diphenylamine:

Acute oral toxicity : LD50 Rat: > 800 mg/kg
Method: No information available.

Acute dermal toxicity : LD50 Rabbit: > 2.000 mg/kg
Method: No information available.

baseoil - unspecified:

Acute oral toxicity : LD50 Oral Rat: > 5.000 mg/kg
Method: CONCAWE

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

Acute inhalation toxicity : LC50 Rat: > 5,53 mg/l
Method: CONCAWE

Acute dermal toxicity : LD50 Dermal Rat: > 2.000 mg/kg
Method: CONCAWE

Skin corrosion/irritation

Product:

slight irritation
Non persistent irritation

Components:

diphenylamine:

Result: No skin irritation
Method: OECD Test Guideline 404
This information is not available.

Serious eye damage/eye irritation

Product:

Non persistent irritation

Components:

diphenylamine:

Result: Mild eye irritation
Method: OECD Test Guideline 405
European Union Risk Assessment Report DIPHENYLAMINE 2008

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

Components:

diphenylamine:

Genotoxicity in vitro : No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

Genotoxicity in vivo : Test Type Transgenic rodent somatic cell gene mutation assay
Method: OECD Test Guideline 474
Result: negative

Carcinogenicity

Product:

This information is not available.

Carcinogenicity - Assessment : No data available

Components:

diphenylamine:

Method: OECD Test Guideline 453
Result: negative

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:

No data available

Repeated dose toxicity

Product:

This information is not available.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

Repeated dose toxicity - Assessment : No data available

Components:

diphenylamine:

Repeated dose toxicity - Assessment : NOAEL: Dose 2 mg/kg /d

Aspiration toxicity

Product:

No data available

Further information

Product:

No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : No data available

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

Toxicity to fish (Chronic toxicity) : No data available

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

Toxicity to bacteria : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment
Acute aquatic toxicity : Harmful to aquatic organisms., Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment., Harmful to aquatic life with long lasting effects.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Components:

diphenylamine:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 3,79 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2 mg/l
Exposure time: 48 h
Test Type: Immobilization
Method: European Chemicals Agency - ECHA

Toxicity to algae : EC50 : 2,17 mg/l
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : 2 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: No data available

baseoil - unspecified:

Toxicity to fish : LL50 (Fish): > 100 mg/l

Toxicity to algae : NOEL (algae): > 100 mg/l

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.

Impact on Sewage Treatment : No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : No data available

12.4 Mobility in soil

Product:

Mobility : Should not be released into the environment.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

Distribution among environmental compartments : 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.

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 06*

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

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

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

Directive 1999/13/EC on the limitation of emissions of volatile organic compounds : Exempt

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Major Accident Hazard Legislation		Quantity1	Quantity2
13	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams)	2,500 t	25,000 t

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of R-Phrases

R23/24/25	: Toxic by inhalation, in contact with skin and if swallowed.
R33	: Danger of cumulative effects.
R36/38	: Irritating to eyes and skin.
R38	: Irritating to skin.
R41	: Risk of serious damage to eyes.
R50	: Very toxic to aquatic organisms.
R50/53	: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	: May cause long-term adverse effects in the aquatic environment.
R62	: Possible risk of impaired fertility.

Full text of H-Statements

H301	: Toxic if swallowed.
H304	: May be fatal if swallowed and enters airways.
H311	: Toxic in contact with skin.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H331	: Toxic if inhaled.
H361	: Suspected of damaging fertility or the unborn child.
H373	: May cause damage to organs through prolonged or repeated exposure.
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.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Acute aquatic toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Repr.	: Reproductive toxicity
Skin Irrit.	: Skin irritation
STOT RE	: Specific target organ toxicity - repeated exposure

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 mat-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 5W-30

Version 1.0

Revision Date 13.03.2015

Print Date 11.04.2016

rial 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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