

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
1.0

Revision Date:
20.06.2017

Date of last issue: -
Date of first issue: 20.06.2017

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

1.1 Product identifier

Trade name : LUKOIL GENESIS SPECIAL VN 0W-20
Product code : 563117

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

Use of the Sub-
stance/Mixture : Engine oil

1.3 Details of the supplier of the safety data sheet

Company : LUKOIL Lubricants Europe GmbH
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)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Precautionary statements : P102 Keep out of reach of children.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling

EUH210 Safety data sheet available on request.
EUH208 Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
1.0

Revision Date:
20.06.2017

Date of last issue: -
Date of first issue: 20.06.2017

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	Concentration (% w/w)
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. :			
1-Decene, homopolymer, hydrogenated	68037-01-4 01-2119486452-34	Asp. Tox. 1; H304	>= 70 - < 90
lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1 276-738-4 01-2119474889-13	Asp. Tox. 1; H304	< 6
distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 01-2119484627-25	Asp. Tox. 1; H304	< 6
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0 276-737-9 01-2119474878-16	Asp. Tox. 1; H304	< 6
bis(nonylphenyl)amine	36878-20-3 253-249-4 01-2119488911-28	Aquatic Chronic 4; H413	>= 1 - < 2,5
C14-16-18 Alkyl phenol	01-2119498288-19	Skin Sens. 1B; H317 STOT RE 2; H373	>= 0,1 - < 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : First aider needs to protect himself.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
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Revision Date:
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- 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.
-

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 : In the event of fire, wear self-contained breathing apparatus.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
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Revision Date:
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for firefighters	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.
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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
1.0

Revision Date:
20.06.2017

Date of last issue: -
Date of first issue: 20.06.2017

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 banded 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, 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

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
bis(nonylphenyl)amine	Workers	Skin contact	Long-term systemic effects	0,62 mg/kg
	Workers	Inhalation	Long-term systemic effects	4,37 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	0,31 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1,09 mg/m ³
	Consumers	Ingestion	Long-term systemic effects	0,31 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
1.0

Revision Date:
20.06.2017

Date of last issue: -
Date of first issue: 20.06.2017

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

Substance name	Environmental Compartment	Value
bis(nonylphenyl)amine	Fresh water	0,1 mg/l
	Marine water	0,01 mg/l
	Intermittent use/release	1 mg/l
	Sewage treatment plant	1 mg/l
	Fresh water sediment	132000 mg/kg
	Marine sediment	13200 mg/kg
	Soil	263000 mg/kg

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Apply technical measures to comply with the occupational exposure limits.

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

Material : Viton (R)
Break through time : 480 min
Glove thickness : 0,70 mm
Directive : DIN EN 374

Material : butyl-rubber
Break through time : 120 min
Glove thickness : 0,70 mm
Directive : DIN EN 374

Material : Neoprene
Break through time : 60 min
Glove thickness : 0,60 mm
Directive : DIN EN 374

Remarks : 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). 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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
1.0

Revision Date:
20.06.2017

Date of last issue: -
Date of first issue: 20.06.2017

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)
- Protective measures : Wear suitable protective equipment.
Avoid contact with the skin and the eyes.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : tan
- Odour : No data available
- Odour Threshold : No data available
- pH : No data available
- pour point : ≤ -45 °C
Method: ISO 3016
- : No data available
- Flash point : ≥ 210 °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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
1.0

Revision Date:
20.06.2017

Date of last issue: -
Date of first issue: 20.06.2017

Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0,834 g/cm ³ (20 °C) Method: DIN 51757
Bulk density	:	No data available
Solubility(ies)		
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
Ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	39,7 mm ² /s (40 °C) Method: ASTM D 445
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
Refractive index	:	No data available
	:	No data available
Molecular weight	:	No data available
Self-ignition	:	

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
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Revision Date:
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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.

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

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

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

Components:

1-Decene, homopolymer, hydrogenated:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

bis(nonylphenyl)amine:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
1.0

Revision Date:
20.06.2017

Date of last issue: -
Date of first issue: 20.06.2017

Method: OECD Test Guideline 401
Test substance: Read-across (Analogy)

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402
Test substance: Read-across (Analogy)

Skin corrosion/irritation

Product:

slight irritation
Non persistent irritation

Components:

1-Decene, homopolymer, hydrogenated:

Result: No skin irritation

bis(nonylphenyl)amine:

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

Serious eye damage/eye irritation

Product:

Non persistent irritation

Components:

1-Decene, homopolymer, hydrogenated:

Result: No eye irritation

bis(nonylphenyl)amine:

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

Respiratory or skin sensitisation

Product:

Result: May cause sensitisation of susceptible persons.

Components:

1-Decene, homopolymer, hydrogenated:

Result: Did not cause sensitisation on laboratory animals.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
1.0

Revision Date:
20.06.2017

Date of last issue: -
Date of first issue: 20.06.2017

bis(nonylphenyl)amine:

Test Type: Maximisation Test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative
Test substance: Read-across (Analogy)

Germ cell mutagenicity

Product:

Genotoxicity in vitro : No data available

Genotoxicity in vivo : No data available

Germ cell mutagenicity- Assessment : No data available

Components:

1-Decene, homopolymer, hydrogenated:

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

bis(nonylphenyl)amine:

Genotoxicity in vitro : Result: negative
Test substance: Read-across (Analogy)

Genotoxicity in vivo : Species: Mouse
Result: negative
Test substance: Read-across (Analogy)

Carcinogenicity

Product:

This information is not available.

Carcinogenicity - Assessment : No data available

Components:

1-Decene, homopolymer, hydrogenated:

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
1.0

Revision Date:
20.06.2017

Date of last issue: -
Date of first issue: 20.06.2017

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

Components:

1-Decene, homopolymer, hydrogenated:

Reproductive toxicity - Assessment : No toxicity to reproduction
Animal testing did not show any effects on foetal development.

STOT - single exposure

Product:

No data available

Components:

1-Decene, homopolymer, hydrogenated:

Exposure routes: inhalation (dust/mist/fume), inhalation (vapour)
Target Organs: Mucous membranes, Upper respiratory tract
Assessment: May cause respiratory irritation.

STOT - repeated exposure

Product:

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
1.0

Revision Date:
20.06.2017

Date of last issue: -
Date of first issue: 20.06.2017

Components:

1-Decene, homopolymer, hydrogenated:

May be fatal if swallowed and enters airways.

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 : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Components:

1-Decene, homopolymer, hydrogenated:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l
Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): > 750 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 190 mg/l
Exposure time: 48 h

Toxicity to algae : NOELR (Scenedesmus capricornutum (fresh water algae)): 1.000 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

bis(nonylphenyl)amine:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
1.0

Revision Date:
20.06.2017

Date of last issue: -
Date of first issue: 20.06.2017

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: Read-across (Analogy) Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Test substance: yes Method: OECD Test Guideline 202
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Test Type: static test Test substance: Read-across (Analogy) Method: OECD Test Guideline 201

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

Components:

1-Decene, homopolymer, hydrogenated:

Biodegradability	:	Result: Inherently biodegradable.
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bis(nonylphenyl)amine:

Biodegradability	:	Test Type: aerobic Inoculum: activated sludge Result: Not biodegradable Biodegradation: 1 % Exposure time: 28 d Method: OECD Test Guideline 301B Test substance: Read-across (Analogy)
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12.3 Bioaccumulative potential

Product:

Bioaccumulation	:	No data available
Partition coefficient: n-octanol/water	:	not determined

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
1.0

Revision Date:
20.06.2017

Date of last issue: -
Date of first issue: 20.06.2017

Components:

1-Decene, homopolymer, hydrogenated:

Bioaccumulation : Bioaccumulation is unlikely.

bis(nonylphenyl)amine:

Partition coefficient: n-octanol/water : log Pow: > 7,6

12.4 Mobility in soil

Product:

Mobility : Should not be released into the environment.

Components:

bis(nonylphenyl)amine:

Mobility : After release, adsorbs onto soil.

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*

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
1.0

Revision Date:
20.06.2017

Date of last issue: -
Date of first issue: 20.06.2017

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : not required

14.7 Transport in bulk according to Annex II of Marpol 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 : 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

H304 : May be fatal if swallowed and enters airways.
H317 : May cause an allergic skin reaction.
H373 : May cause damage to organs through prolonged or repeated exposure.
H413 : May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

Aquatic Chronic : Chronic aquatic toxicity
Asp. Tox. : Aspiration hazard
Skin Sens. : Skin sensitisation

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



LUKOIL GENESIS SPECIAL VN 0W-20

Version
1.0

Revision Date:
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STOT RE : Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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.