LUKOIL MOTO 2T SYNTH

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

1.1 Product identifier

Trade name : LUKOIL MOTO 2T SYNTH
Product code : 563200

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

Use of the Substance/Mixture : Engine oil

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 : VIZ - Vergiftungszentrale
24h/7d
+43 1 406 43 43

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.

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
Esters
Additives

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P) :			
distillates (petroleum), hydrotreated light	64742-47-8 265-149-8 01-2119485032-45	Asp. Tox.1; H304	>= 1 - < 10

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.

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 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.
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, organic 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
distillates (petroleum), hydrotreated light	64742-47-8	TMW	20 ml/m3	AT TRK
Further information	The 8-hr TWA-values for hydrocarbon vapours are: 200 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons < 1%, a n-hexane content < 5% and a cyclo-/isohexanone < 25% 70 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons 1 - 25% and hexanes < 1% 20 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons > 25% 50 ml/m3 for hydrocarbon mixtures with a content of n-hexane content >= 5% 170 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons < 1%, a n-hexane content < 5% and a cyclo-/isohexanone >= 25% The indicated contents are weight% in solution. In the following cases the lowest value applies: if the classification of a hydrocarbon mixture is not known or if the employees are exposed to the vapours of different hydrocarbon mixtures at the same time. Unimpeded the first paragraph the TWA or			

	TRK-values apply of the substances contained in the vapour mixtures and, if a carcinogenic hydrocarbon appears in the vapours for which no TWA- or TRK-value is established, the obligation exists to keep the concentrations of these substances in the air of the workplace as low as possible at all times.			
distillates (petroleum), hydrotreated light	64742-47-8	KZW	40 ml/m3	AT TRK
Further information	The 8-hr TWA-values for hydrocarbon vapours are: 200 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons < 1%, a n-hexane content < 5% and a cyclo-/isohexanone < 25% 70 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons 1 - 25% and hexanes < 1% 20 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons > 25% 50 ml/m3 for hydrocarbon mixtures with a content of n-hexane content >= 5% 170 ml/m3 for hydrocarbon mixtures with a content of aromatic hydrocarbons < 1%, a n-hexane content < 5% and a cyclo-/isohexanone >= 25% The indicated contents are weight% in solution. In the following cases the lowest value applies: if the classification of a hydrocarbon mixture is not known or if the employees are exposed to the vapours of different hydrocarbon mixtures at the same time. Unimpeded the first paragraph the TWA or TRK-values apply of the substances contained in the vapour mixtures and, if a carcinogenic hydrocarbon appears in the vapours for which no TWA- or TRK-value is established, the obligation exists to keep the concentrations of these substances in the air of the workplace as low as possible at all times.			

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 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	:	mild
Odour Threshold	:	No data available
pH	:	Not applicable
pour point	:	<= -27 °C Method: ISO 3016
Boiling point/boiling range	:	not determined
Flash point	:	>= 130 °C Method: ISO 2592, Cleveland open cup
Evaporation rate	:	Not applicable
Burning rate	:	No data available
Upper explosion limit	:	not determined
Lower explosion limit	:	not determined

Vapour pressure	:	not determined
Vapour density	:	Not applicable
Relative density	:	No data available
Density	:	0,895 g/cm3 (20 °C) Method: DIN 51757
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	:	No data available
Auto-ignition temperature	:	not auto-flammable
Ignition temperature	:	not determined
Thermal decomposition	:	No data available
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	80 mm2/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
Sublimation point	:	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 : None known.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : not determined

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:

distillates (petroleum), hydrotreated light:

Acute oral toxicity : LD50 Oral Rat: > 2.000 mg/kg

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

Skin corrosion/irritation

Product:

slight irritation

Non persistent irritation

Serious eye damage/eye irritation

Product:

Non persistent irritation

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 light:

Carcinogenicity - Assessment	:	Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

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.

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 : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Components:

distillates (petroleum), hydrotreated light:

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

Toxicity to daphnia and other aquatic invertebrates : LL50 (Daphnia magna (Water flea)): > 100 mg/l

Toxicity to algae : LL50 (algae): > 100 mg/l

12.2 Persistence and degradability

Product:

Biodegradability : No data available

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

Partition coefficient: n-octanol/water : No data available

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 : ÖNORM S 2100, key code group 54

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

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

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 : not required under normal use

Fire Hazard Class : Exempt

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

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.

Major Accident Hazard Legislation		Quantity1	Quantity2
34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil	2.500 t	25.000 t

blending streams)

Water contaminating class (Germany)	:	WGK 1 slightly water endangering Classification according VwVwS, Annex 4.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H304 : May be fatal if swallowed and enters airways.

Full text of other abbreviations

Asp. Tox. : Aspiration hazard

Further information

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

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