

SAFETY DATA SHEET

Complying with Regulation (EU) 1907/2006, amended by Regulation (EU) No. 453/2010

LUKOIL ATF SYNTH CVT

Issue date: May 29, 2013

Version 1

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1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identification element

Product name: LUKOIL ATF SYNTH CVT

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

Use: LUKOIL ATF SYNTH CVT is a fully synthetic premium fluid, obtained from base oils with a very high viscosity index and high quality additives. It is an oil specially conceived in order to be used in continuously variable transmissions (CVT) or automatic transmissions (AT) equipping a wide range of passenger cars manufactured in North America, Europe and Asia. The product provides, under the most severe operating conditions, optimum lubrication and adherence performance (metal on metal as well as in the clutch), remarkable performance at low temperatures, excellent thermal and oxidative stability, anticorrosion, antiwear and antifoaming properties, full compatibility with all the transmission system components, extended service life.

Recommended for the following vehicles: Audi/VW (TL 52180; G 052 180), Ford (CVT23, 30, MERCON C), Toyota (TC), Nissan (NS-2), Mitsubishi (CVTF-J1/SP-III), Mini Cooper (EZL 799), Hyundai/Kia (SP-III), Dodge/Jeep (NS-2/CVTF+4), Mercedes Benz (236.20) as well as other motor vehicles equipped with CVT systems.

Uses advised against: Not identified.

1.3 Details regarding the supplier of the safety data sheet

Identification of the manufacturer:

LUKOIL LUBRICANTS EAST EUROPE S.R.L.
11-15 Tipografilor St, Building A2, ground floor, Bucharest,
Sector 1, Romania,
E-mail: www.lukoil-lubricants.ro

1.4 Telephone number for emergency calls:

Emergency tel.: +40 244 504 651 from 9⁰⁰ to 17⁰⁰

2. HAZARD IDENTIFICATION

2.1 Substance / mixture classification

Classification according to Directive EC 67/548 or Directive 1999/45/EC, Government Decision 1408/2008 or Government Decision 937/2010

The product is classified as hazardous to health.

Xi – Irritant

R43 May cause sensitisation by skin contact.

Classification according to **Regulation (EC) 1272/2008 (CLP) and its amendments (Regulation (EC) 790/2009 and Regulation (EU) No. 286/2011**

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Product classification according to **Regulation (EC) 1272/2008** and **its amendments** is not available.

Hazard for health:

Irritant. May cause sensitisation by skin contact.

Excessive exposure to this product may cause, in some cases, irritation and/or dermatitis, depending on individual sensitivity, mainly under insufficient personal hygiene conditions.

Contact with skin must be minimized.

Hazards for the environment:

This product is not classified as hazardous for the environment.

However, avoid product release in the environment.

Accidental releases form a film on water surface, obstructing oxygen transfer.

Safety hazards:

Contains a substance with occupational exposure limit (see section 8).

2.2 Labelling elements

Labelling complying with Directive 67/548/EEC and Directive 1999/45/EC, Government Decision 1408/2008 and Government Decision 937/2010:

Dangerous substances which determine the labelling:

Contains: Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs., 1,2-Propanediol, 3-amino-, N,N dicoco alkyl derivs., Ethanol, 2,2'-iminobis-,N-tallow alkyl derivatives.

Symbol:



Risk phrases (R):

R43 May cause sensitisation by skin contact.

Safety phrases (S):

S2 Keep out of the reach of children.

S24/25 Avoid contact with skin and eyes.

S29 Do not empty into drains.

S36 Wear suitable protective clothing.

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions / safety data sheets.

Labelling complying with Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures, and its amendments.

Labelling according to **Regulation (EC) No. 1272/2008** and **its amendments** is not available.

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2.3 Other hazards:

Waste oils may contain hazardous impurities, accumulated during the use. The concentration of these impurities depends on the relevant use, and they may pose risks for health and environment when exhausted. All waste oils must be handled with great care and contact with skin must be avoided as much as possible. Prolonged or repeated exposure to waste oils must be made cautiously, as they may cause skin cancer.



3. COMPOSITION/INFORMATION ON COMPONENTS

3.1 Substances: Not applicable.

3.2 Mixtures

Product description/characterisation: mixture of synthetic and mineral base oils, and additives

Hazardous components:

ITEM NO.	CHEMICAL DENOMINATION	CONC. [%]	IDENTIFICATION NO.	CLASSIFICATION	
				Directive 67/548/EEC and Gov. Dec. 1408/2008	Regulation (EC)1272/2008 (CLP)
1.	Paraffin oils (petroleum), catalytic dewaxed heavy; Base oil – unspecified	77.0-81.0	REACH registration No.: 01-2119487080-42-0004 EC No.: 265-174-4 CAS No.: 64742-70-7 INDEX No.: 649-477-00-2	- H, L* Notes are applied	- H, L* Notes are applied
2.	Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.	0.90 – 1.20	REACH registration No.: 01-0000019770-68 CAS No.: - EC No.: 471-920-1 INDEX No.: -	Xi, R38,R43	Self-classification GHS07  Skin Irrit. 2; H315 Skin Sens. 1; H317
3.	Benzenamine, ar-nonyl-N-(nonylphenyl)-	0.90 – 1.20	REACH registration No.: 01-2119488911-28 CAS No.: 36878-20-3 EC No.: 253-249-4 INDEX No.: -	R53	Self-classification Aquatic chronic 4, H413
4.	Thiophene,3-(decyloxy) tetrahydro-, 1,1-dioxide	0.90 – 1.20	REACH registration No.: not available CAS No.: 18760-44-6 EC No.: 242-556-9 INDEX No.: -	N, R51/53	Self-classification GHS09  Aquatic chronic 2, H411

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5.	Alkyl borate	0.90 – 1.20	REACH registration No.: not available CAS No.: confidential EC No.: - INDEX No.: -	Xi, R36/38, R52/53	Self-classification GHS07  Eye Irrit. 2; H319 Skin Irrit. 2; H315 Aquatic chronic 3, H412
6.	Dibutyl phosphite	0.25 – 1.40	REACH registration No.: not available CAS No.: 1809-19-4 EC No.: 217-316-1 INDEX No.: -	Xi, R36/38	Self-classification GHS07  Eye Irrit. 2; H319 Skin Irrit. 2; H315
7.	1,2-Propanediol, 3-amino-, N,N dicoco alkyl derivs.	0.19 – 0.25	REACH registration No.: 01-0000020142-86 CAS No.: - EC No.: 482-000-4 INDEX No.: -	Xi, R43 R52/53	Self-classification GHS07  Skin Sens. 1; H317 Aquatic Chronic 3; H412
8.	Diphenylamine	0.19 – 0.25	REACH registration No.: not available CAS No.: 122-39-4 EC No.: 204-539-4 INDEX No.: 612-026-00-5	T; R23/24/25 R33 N; R50/53	GHS06, GHS08, GHS09  Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT RE 2, H373 Aquatic acute 1, H400, Aquatic chronic 1, H410
9.	Ethanol, 2,2'-iminobis-, N-tallow alkyl derivatives	0.19 – 0.25	REACH registration No.: not available CAS No.: 61791-44-4 EC No.: 263-177-5 INDEX No.: -	C, R22,R34,R43 N, R50	Self-classification GHS05, GHS07, GHS09  Acute Tox. 4; H302 Eye Dam. 1; H318 Met. Corr. 1; H290 Skin Corr. 1C; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400

*The substance is not classified as carcinogenic T, R45 according to Directive EC 67/548/EEC and Government Decision 1408/2008 or GHS08, Carc. 1B, H350 according to Regulation (EC) No. 1272/2008

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(CLP) as it complies with **Note L** having polynuclear aromatic hydrocarbon content < 3% determined in accordance with IP 346 (dimethyl sulfoxide extraction) (Annex VI – **Regulation (EC) 1272/2008**).

See section 16 for the full text of R/H phrases.

Occupational exposure limits, if available, can be found in section 8.

4. FIRST AID MEASURES

4.1 Description of first aid measures

- General information:** Immediately remove the product-contaminated clothes and footwear. Never give anything to drink and do not induce vomiting in case the victim is no longer conscious. If any symptom appears, get medical attention.
- Inhalation:** Move the exposed person to fresh air. Keep the body temperature. Keep the patient calm. In case respiratory system irritations, drowsiness, loss of consciousness occur, immediately get medical attention
- Eye contact:** May cause burns in case of contact with the product at high temperatures. Rinse the eyes with plenty of water, for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get specialized medical attention (ophthalmologist), if irritation blurred vision or eye swelling occur.
- Skin contact:** May cause burns in case of contact with product at high temperature. Remove contaminated clothing and footwear, and dispose of safely. Wash affected area with soap and water. Seek medical assistance if skin irritation, swelling or redness develops and persists.
- Ingestion:** Immediately get specialized medical attention and send the casualty to a hospital. Do not wait for symptoms to develop. Do not induce vomiting, as there is a risk of aspiration. Never give anything by mouth to an unconscious person.

4.2 The most important symptoms and effects, both acute and delayed:

- Inhalation:** Symptoms: respiratory system irritation caused by the excess of smoke, mist or vapours. Oil mist may irritate the eyes and the respiratory tract. In case of symptoms caused by the inhalation of smoke, mist or vapours: remove the exposed person from the dangerous area to a well-ventilated area.
- Skin contact:** Symptoms: sensitization and skin drying. Irritation may occur in case of repeated or prolonged exposure.
- Eye contact:** Symptoms: mild irritation (non-specific).

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May cause burns in case of contact with the product at high temperatures.

Ingestion:

Symptoms: nausea and diarrhoea may occur.
Do not wait for symptoms to develop.

4.3 Indications regarding any kind of immediate medical attention

and special necessary treatment: In case of involuntary vomiting, the product should not be aspirated into the lungs, as it may cause fatal chemical pneumonia.
Give symptomatic treatment.

5. FIRE-FIGHTING MEASURES

5.1 Fire-fighting means

Suitable extinguishing media: Foam, chemical powder, carbon dioxide, sprayed water, sand.

Unsuitable extinguishing media:

Water jet, for safety reasons, as it may cause foaming and fire propagation. The spilled but not-ignited product should be covered with sand or foam.

5.2 Special exposure hazards caused by the burning substances or products generated during a fire:

Incomplete combustion may produce a complex mixture of solid particles, liquids and gases, including metal oxides, nitrogen oxides (NO_x), phosphorus oxides, zinc oxides, carbon monoxide, carbon dioxide and unidentified organic and inorganic combustion products
Avoid product spraying on hot surfaces or electric circuits.
Product losses from pipes under pressure generate product mist.

5.3 Recommendations for fire-fighters

Fire-fighting:

Evacuate the area, take measures to prevent product spillage into waters, sewage, or water supply network.
Use sprayed water to cool down the containers located in the fire area.
Remove the containers exposed to the fire, if this action does not involve risks.
Confined area fires shall be extinguished by specialized personnel only.

Protective equipment for fire fighters:

Special protective equipment shall be used.
Respiratory system protection is necessary, mainly in confined spaces.
Protective equipment shall comply with the Government Decision 160/2007.

Note:

Take precautionary measures collecting the residues and the water resulted from fire extinguishing, in order to avoid spillage in waters, sewage or drinkable water supply system.

6. ACCIDENTAL RELEASE MEASURES

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6.1 Precautionary measures for the personnel, protective equipment and emergency procedures:

Isolate the contaminated area.
Stop the spillage without assuming risks. Do not touch and do not step on the spilled material. Remove fire or spark sources.
Local ventilation is provided as a protection measure for the respiratory system.
The persons participating in the cleaning of the contaminated area shall use the individual protective equipment specified in section 8.
Evacuate the unauthorized persons.

6.2 Precautionary measures regarding the environment:

Prevent spillage entering waters, sewage or water supply system, containing it with sand or earth.
In case the product has already entered surface waters, sewage or soil, immediately notify the competent authorities.

6.3 Methods and materials for fire isolation and cleaning:

Liquid spilled on the ground: Contain the liquid spillage with sand, earth or another adequate absorbing material.
Recover the fluid by pumping.
Dispose the waste in compliance with the national legislation mentioned in section 13.

Liquid spread on water surface:

Contain the spillage. Remove the product film from the water surface or use adequate absorbents. Dispose the waste according to the national legislation mentioned in section 13. Notify the competent local authorities.

6.4 References to other sections: For safe handling information, see section 7.

For personal protective equipment, see section 8.
For waste disposal information, see section 13.

7. HANDLING AND STORAGE

General information:

Follow the product handling general procedures.
The product may accumulate electrostatic charges.
Keep the product far from heat or fire sources.

7.1 Precautions for safe handling:

Take precautionary measures against static electricity.
Avoid splash filling of bulk volumes when handling hot liquid product.
Avoid contact with skin. Avoid breathing fume/mist.
Prevent the risk of slipping. Use personal protective equipment as required.

7.2 Safe storage conditions, any incompatibilities included:

Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation.
Storage installations should be designed with adequate bunds so as to prevent

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ground and water pollution in case of leaks or spill.
 Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel, as defined by national, local or company regulations.
 Store separately from strong oxidizing agents.

Adequate container materials: Stainless steel or other hydrocarbon-resistant materials.

Storage together with other products:

It is forbidden to store this product together with explosive substances, compressed-, liquefied- or under pressure gas, with flammable substances or with strongly oxidizing substances.

Container advice:

If the product is supplied by the manufacturer in containers:
 - Keep it only in its original container or in suitable containers for this kind of product.
 - Keep containers tightly closed and properly labelled.
 - Empty containers may contain combustible product residues. Do not weld, solder, drill, cut or perform similar operations unless they have been properly cleaned.

Hygiene measures:

Ensure that proper housekeeping measures are in place.

Precaution measures:

Contaminated materials should not be allowed to accumulate in the work places and should never be kept inside the pockets.
 Keep away from food and beverages.
 Do not eat, drink or smoke when using this product.
 Wash the hands thoroughly after handling.
 Change contaminated clothes at the end of working shift.

Storage temperature, °C: - 5 °C and + 40 °C.

7.3 Final specific use: Fully synthetic oil for automatic transmissions.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters:

Exposure control measures: Provide ventilation with exhausting system, so that not to exceed the occupational exposure limits.

Limit values of occupational exposure according to **Law 319/2006** on Safety and health at work and **Government Decision 1218/2006** on establishing minimum requirements for safety and health at work in order to ensure workers' protection against the risks related to the presence of the chemical agents – Annex 1:

Limit exposure value:

No.	COMPONENT	Limit value, mg/m ³	
		Long term exposure 8 hours	Short term exposure 15 minutes

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1.	Oil (mist)	5 mg/m ³	10 mg/m ³
2.	Diphenylamine	4 mg/m ³	6 mg/m ³

8.2 Exposure controls

Personal protective equipment

Respiratory protection: No respiratory protection is necessary in case proper ventilation exists at the work place and in open spaces. When, by accumulation, the concentration exceeds the occupational exposure limit (insufficient ventilation) or in confined spaces, a respiratory protection device shall be used.
If the product is overheated, exposure to pollutants or to flammable gases (e.g. sulphuretted hydrogen) is possible, and in this case respiratory protection is necessary.

Hand protection: Use gloves resistant to lubricating oils (complying with SR EN 374).

Eye protection: If there is a product splashing risk, wear safety goggles.

Body protection: Protective equipment, including footwear resistant to lubricating oils.

General protection and hygiene measures: Avoid the contact with eyes, skin and clothes.
Remove the clothes and footwear that were contaminated or stained with product. Wash contaminated clothes with water and soap before reuse.
Wash the hands with water and soap (do not use solvents or other irritating products that have a skin degreasing effect) before the lunch, drinking and smoking breaks, before going to the toilet or at the end of the work hours.
Do not eat, drink and smoke at the work place.
Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Environment exposure control: Check the emissions generated during work to ensure that they comply with environmental protection legislation. If necessary, make technological changes of the production equipment in order to reduce the emissions at acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information regarding the main physical and chemical properties

Physical-chemical characteristics	Typical values	Test methods
State of aggregation	Liquid	-
Smell	specific	-
<u>Important information for health, safety and environment</u>		
Density at 20 °C , kg/m ³	To be determined	SR EN ISO 3675/C91 ASTM D 1298

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		ASTM D 7042
Kinematic viscosity at 100 °C, mm²/sec (cSt)	6.5...8.5	SR EN ISO 3104/AC ASTM D 445 ASTM D 7042
** Kinematic viscosity at 40 °C, mm²/ sec (cSt), max.	40	SR EN ISO 3104/AC ASTM D 445 ASTM D 7042
Viscosity index, min.	160	SR ISO 2909 ASTM D 2270 ASTM D 7042
* Brookfield viscosity, cP (mPa.s) at the temperature of -40°C, max.	20000	ASTM D 2983
Flash point, Cleveland open cup, °C, min.	180	SR EN ISO 2592 ASTM D 92
Pour point, °C, max.	- 45	SR 13552 ASTM D 97
Copper strip corrosion at 150°C, 3h, max.	1b	SR EN ISO 2160 ASTM D 130
Foaming properties, ml (tendency – stability), max. - at 24 °C - at 93.5 °C - at 24°C, after determination at 93.5°C	50-0 50-0 50-0	SR ISO 6247+C1 ASTM D 892
* Water content, %	nil	SR 13484 ASTM D 95
* Substances insoluble in organic agents, %	nil	STAS 33
* This characteristic is guaranteed by means of the manufacturing technology/is determined in accordance with the technical standard in force **Informative		

9.2 Other information: Not available.

10. STABILITY AND REACTIVITY

10.1 Reactivity: No dangerous reactions occur if the product is handled and stored according to instructions.

10.2 Chemical stability: The product is stable under normal use and storage conditions.

10.3 Dangerous reaction risk: No dangerous reactions occur if the product is handled and stored according to instructions.

10.4 Conditions to be avoided: High temperatures, ignition sources.

10.5 Incompatible materials: Strongly oxidizing substances.

10.6 Hazardous decomposition

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products: Carbon monoxide, carbon dioxide, low molecular weight hydrocarbons, and flammable vapours may be formed in case of heating or fire.

11. TOXICOLOGICAL INFORMATION

11.1 Information regarding toxicological effects:

No toxicological studies on the product as such were performed.

Toxicity data regarding the components:

Acute toxicity – oils:

Acute toxicity, oral: LD₅₀, oral, rats > 5000 mg/kg (CONCAWE studies based on 9 tests on CASs from the OLBO class (Other Lubricant Base Oils)).

Acute toxicity, dermal: LD₅₀, dermal, rabbit > 2000 mg/kg (CONCAWE studies based on 7 tests on CASs from the OLBO class (Other Lubricant Base Oils)).

Acute toxicity, inhalation: LC₅₀, inhalation > 5000 mg/m³ (CONCAWE studies – not relevant due to the low vapour pressure).

Irritating effects

Skin corrosion/irritation: Causes a mild irritation, not significant enough in order to be classified according to the data of the experimental tests performed on rabbits (CONCAWE studies based on 14 tests on 10 CASs from the OLBO class (Other Lubricant Base Oils). Each study lasted for 24 hours, a period of time 6 times longer than the duration recommended by the OECD method).

Eye serious damage/irritation: Not irritating to the eyes, according to experimental data (CONCAWE studies based on 9 “*in vivo*” tests on 7 CASs from the OLBO class (Other Lubricant Base Oils)).

Sensitization of skin or respiratory tract:

The substance does not cause the sensitization of the respiratory tract or of the skin. (CONCAWE studies based on 14 tests on 11 CASs from the OLBO class (Other Lubricant Base Oils)).

Chronic effects

Carcinogenicity: As the DMSO extract determined in accordance with IP 346 is < 3% m/m, the substance is not carcinogenic. According to the performed tests, 37 results of the studies performed on mice skin were negative (CONCAWE studies).

Germ cell mutagenicity:

The tests performed within the “*in vivo*” studies regarding gene mutation at mice micronuclei indicated negative results (CONCAWE studies. AMES tests had negative results in 7 studies performed on 4 CASs from the OLBO class (Other Lubricant Base Oils)).

Reproduction toxicity:

Reproduction / development toxicity monitoring according to OECD 421 or 422 methods. CONCAWE tests gave negative results in oral gavage studies.

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Pre-birth studies regarding toxicity in the unborn foetus development process showed a maternal LOAEL (Lowest Observed Adverse Effect Level) of 125 mg/kg body/day, based on dermal irritation and a NOAEL (No Observable Adverse Effect Level) of 2000 mg/kg body/day, which shows that the substance is not toxic for reproduction.

STOT (toxicity on specific target organs) – single exposure: No available data.

STOT (toxicity on specific target organs) – repeated exposure: Studies with short term repeated doses (28-day test) on rabbit skin indicated the NOAEL value of 1000 mg/kg.
NOAEL for inhalation, local effects > 280 mg/m³ and for systemic effects NOAEL > 980 mg/m³.

Sub-chronic toxicity 90-day study **Dermal:** NOAEL > 2000 mg/kg (CONCAWE studies).

Hazard by aspiration: No available data.

Acute toxicity - additives:

Acute toxicity, oral: LD₅₀ oral, rat > 10.000 mg/kg
Based on the data of the components or of similar materials.
Product ingesting may cause central nervous system depression.

Acute toxicity, dermal: LD₅₀ dermal, rabbit > 5.000 mg/kg
Based on the data of the components or of similar materials.

Acute toxicity, inhalation: LC50 (4 hours) in rats for dust or mist of this material is > 50 mg/l.
Based on the data of the components or of similar materials.
Inhalation of this material may cause symptoms similar to ingestion ones.
Inhalation of this material may be prejudicial to health.

Skin corrosion/irritation: May cause a mild irritation of the skin. It is not necessary to classify the material with R38 according to EU criteria. Based on the data of the components or of similar materials.
Prolonged or repeated contact or the contact caused by wearing contaminated clothes may cause dermatitis. Symptoms may include reddening, oedema, skin drying and cracking.

Eye serious damage/irritation: Mild to moderately irritating to the eyes. It is not necessary to classify the material with R36 according to EU criteria.
Based on the data of the components or of similar materials.
Vapours may cause irritation and tears, especially when the material is heated

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Respiratory irritation:	May cause nose, throat and lung irritation. Based on the data of the components or of similar materials.
Skin sensitization:	No data are available, proving that the product or its components may be sensitizing to the skin.
Respiratory system sensitization:	No data are available, proving that the product or its components may be sensitizing to the respiratory system.
Carcinogenicity:	This product contains mineral oils which are highly refined and are not carcinogenic according to IARC. All the oils containing this product have a content lower than 3% of polycyclic aromatic substances determined in accordance with IP 346.
Germ cell mutagenicity:	No data are available, proving that the product or its components, present in concentrations higher than 0.1% are mutagenic or genotoxic.
Reproduction toxicity:	No data are available, proving that the product or its components, present in concentrations higher than 0.1% are toxic to reproduction. There are conflicts in literature regarding the teratogenicity of diphenylamine. However, due to the prevailing exposure route, namely by oral administration (in food or diet) and to the relatively high doses administered for the relevant studies, the recorded results were positive, which does not mean that the product would represent a danger at the work place.
STOT repeated exposure:	No data are available, proving that the product or its components, present in concentrations higher than 0.1% would represent a chronic danger to health.
Other information:	No other dangers for health are known.
The product is classified as hazardous for health according to Directive 1999/45/EC and Government Decision 937/2010.	
12. ECOLOGICAL INFORMATION	
No eco-toxicological studies on the product as such were performed.	
Data regarding the components:	
<u>12.1 Toxicity:</u>	
<u>Acute toxicity - synthetic oils:</u>	
Acute aquatic toxicity	
Toxicity fish, 96h:	LLC50 > 100 mg/l - tested species (<i>Pimephales promelas</i>) (CONCAWE studies).
Toxicity water fleas,	

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(Daphnia Magna), 48h:	EL50 > 10,000 mg/l(CONCAWE studies). Long term toxicity studies performed on Daphnia Magna determined a reproduction NOEC of = 0.02 mg/L
Development inhibition, algae, 72h :	NOEL >100 mg/l - tested species <i>Pseudokirchneriella subcapitata</i>
Inhibition of breathing in activated mud, 4 days:	NOEL>1.93mg/l tested species <i>Photobacterium phosphoreum</i>
<u>12.2 Persistence and degradability:</u>	Not rapidly biodegradable. (CONCAWE studies).
<u>12.3 Bioaccumulation potential:</u>	Product is expected to be bioaccumulable.
<u>12.4 Mobility</u>	
Mobility in the soil:	It is absorbed into the soil.
Mobility in water:	Product is not soluble in water. In case of accidental release, it floats at water surface, forming a film which obstructs the normal process of oxygen transfer in water.
<u>12.5 Results of PBT and vPvB evaluation:</u>	No available data.
<u>12.6 Other adverse effects:</u>	This product is not expected to pose other risks for the environment, other than those associated to accidental release.
<u>Acute toxicity - ADDITIVES:</u>	
<u>12.1 Toxicity:</u>	
Acute toxicity, freshwater fish:	LC ₅₀ = 10 -100 mg/L (based on components)
Acute toxicity, freshwater invertebrates:	EC ₅₀ = 10 -100 mg/L (based on components)
Toxicity, algae:	EC ₅₀ = 10 -100 mg/L (based on components) Ethoxylated amine, contained in this product, has an EC50 of 0.01 to 0.1 mg/L
Acute toxicity, sea fish:	Not determined
Acute toxicity, sea invertebrates:	Not determined.
Toxicity, bacteria:	Not determined.
<u>12.2 Persistency and Degradability:</u>	

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Substance	Conc. %	Test type	Duration (days)	Degradation
Benzenamine, ar-nonyl-N-(nonylphenyl)-	1 – 4.9	Sturm	28	0
Alkyl borate	1 – 4.9	Sturm	28	44,6
Diphenylamine	0.1 – 0.9	Closed bottle	28	26

12.3 Bioaccumulation potential:

Substance	Conc. %	Test type	Duration (days)	Log Pow or BCF
Benzenamine, ar-nonyl-N-(nonylphenyl)-	1 – 4.9	N-octanol /water coefficient	0.1	7.3
Diphenylamine	0.1 – 0.9	N-octanol /water coefficient	0.1	3.4

12.4 Mobility in soil: Not applicable.

12.5 Results of PBT and vPvB evaluation: No available data.

12.6 Other adverse effects: Not known.

The product is not classified as hazardous for the environment, according to Directive 1999/45/EC and Government Decision 937/2010.

13. DISPOSAL CONSIDERATIONS

13.1 Product waste treatment methods:

Recycle if possible.
If recycling is not possible, waste must be disposed according to legal provisions. Product waste – waste oil - shall be treated as a hazardous waste and handed over to the authorized collecting points, whose competence regarding waste oils should be known in advance. Do not pollute soil, waters or environment with product wastes.

Waste disposal legislation: **Law 211/2011** on the regime of waste.
Order 1032/2011 amending the Order of the Minister of Environment and Water Management No. 578/2006 on approving the calculation methodology for the contributions and taxes owed to the Environmental Fund.
Government Decision 427/2010 amending and supplementing Government Decision No. 128/2002 on waste incineration.
Government Decision 1061/2008 on the transport of dangerous and non-dangerous waste on the territory of Romania;
Government Decision 235/2007 on waste lubricating oil management;

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	<p>Government Decision 268/2005 amending and supplementing Government decision No. 128/2002 on waste incineration Government Decision 349/2005 on waste storage. Order of the Ministry of Waters and Environment Protection No. 756/2004 for approving the Technical norms on waste incineration; Government Decision 856/2002 on waste record-keeping and management and for approving the list which includes the wastes, hazardous ones included. Government Decision 128/2002 on waste incineration, amended and supplemented by Government Decision 268/2005.</p>
<p>Product waste code:</p>	<p>13 02 06* synthetic engine, gear and lubricating oils. The waste code is set according to the use. When the product is used for other purposes, the user is obliged to assign another code to the product.</p>
<p>Waste packaging disposal:</p>	<p>Packaging containing product residue should be treated as a dangerous waste and should be handed over to the authorized collecting points, according to the legislation in force.</p>
<p>Legislation on packaging waste:</p>	<p>Order 794/2012 regarding the procedure of reporting the data concerning the packaging and the packaging waste. Government Decision 247/2011 amending and supplementing Government Decision 621 /2005 regarding the management of packaging and packaging waste. Government Decision 1872/2006 amending and supplementing Government Decision 621/2005 regarding the management of packaging and packaging waste. Decision 621/2005 regarding the management of packaging and packaging waste.</p>
<p>Packaging waste code:</p>	<p>15 01 10* packaging containing residues of or contaminated by dangerous substances.</p>
<p>14. TRANSPORT INFORMATION</p>	
<p>Road / railway transport (ADR/RID):</p>	
<p>14.1 UN No.:</p>	<p>-</p>
<p>14.2 Correct UN name for shipment:</p>	<p>-</p>
<p>14.3 Hazard class (classes) for transport:</p>	<p>-</p>
<p>14.4 Packaging group:</p>	<p>-</p>
<p>14.5 Hazards for environment:</p>	<p>-</p>
<p>14.6 Special precautions for users:</p>	<p>-</p>
<p>14.7 Bulk transport, according to Annex II to MARPOL 73/78 and IBC code:</p>	<p>-</p>
<p>Transport by sea (IMDG):</p>	
<p>14.1 UN No.:</p>	<p>-</p>
<p>14.2 Correct UN name for shipment:</p>	<p>-</p>
<p>14.3 Hazard class (classes) for transport:</p>	<p>-</p>
<p>14.4 Packaging group:</p>	<p>-</p>

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14.5 Hazards for environment: -
14.6 Special precautions for users: -
14.7 Bulk transport, according to Annex II to MARPOL 73/78 and IBC code: -

Air transport (IATA):

14.1 UN No.: -
14.2 Correct UN name for shipment: -
14.3 Hazard class (classes) for transport: -
14.4 Packaging group: -
14.5 Hazards for environment: -
14.6 Special precautions for users: -
14.7 Bulk transport, according to Annex II to MARPOL 73/78 and IBC code: -

Additional information: It is not a dangerous product, according to transport regulations.

15. REGULATORY INFORMATION

15.1 Regulations / laws in the field of safety, health and environment specific for the relevant substance or mixture:

SDS Regulation:

This **Safety Data Sheet** was prepared complying with **Regulation (EC) No. 1907/2006**, amended by **Regulation (EU) 453/2010**.

Regulation (EC) No. 1907/2006 – REACH

Restrictions for placing on the market and use, Regulation 552/2009: It does not contain restricted substances.

National regulations:

COMMISSION REGULATION (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

Law 249/2011 amending art. 4 of Law No. 349/2007 on the reorganizing of the institutional framework in the field of chemical substance management.

Law 254/2011 amending art. 26 of Law No. 260/2003 on the regime of dangerous chemical substances and preparations

Government Decision 1408/2008 on classification, packaging and labelling of dangerous substances.

Government Decision 937/2010 on classification, packaging and labelling of dangerous mixtures when placed on the market.

Regulation (EC) No. 1272/2008 and **Rectification of Regulation (EC) No. 1272/2008** on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Regulation (EC) No. 790/2009 amending in view of adapting of Regulation EC 1272/2008 on classification, packaging and labelling of substances and mixtures to the scientific and technical progress.

Commission Regulation (EU) No. 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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Government Decision 735/2006 on limiting the emissions of volatile organic compounds.
Government Decision 371/2010 amending and supplementing Government Decision 699/2003 on establishing measures for reduction of volatile organic compounds emissions due to the use of organic solvents in certain activities and equipment.
Law 360/2003 on the regime of hazardous chemical substances and preparations.
Law 263/2005 on amending and supplementing Law No. 360/2003 regarding the regime of hazardous chemical substances and preparations;
Government Decision 1093/2006 setting minimum safety and health requirements for workers' protection against the risks related to the exposure to carcinogenous or mutagenous agents at the work place.
Regulation EC 1336/2008 on amending Regulation 648/2004 in view of adapting it to Regulation 1272/2008 on the classification, packaging and labelling of substances and mixtures.
Government Decision 477/2009 on establishing penalties for violation of Regulation (EC) No. 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing of the European Chemicals Agency, amending Directive 1999/45/EC and repealing Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 of the Commission and also of Council Directive 76/769/EEC, as well as Directives 91/155/EEC, 93/67/EEC, 93/105/EEC and 2000/21/EC of the Commission.
Government Decision 398/2010 on establishing measures for application of Regulation 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EEC and amending Regulation 1907/2006.
Government Emergency Ordinance 122/2010 on setting sanctions applicable for the infringement of the Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006.

15.2 Chemical safety evaluation

No available information.

16. OTHER INFORMATION

Full text of the risk phrases (R) mentioned in sections 2 and 3 (classification according to Government Decision 1408/2008 and Government Decision 937/2010):

R22 Harmful if swallowed
R23/24/25 Toxic by inhalation/in contact with skin/if swallowed
R33 Danger of cumulative effects
R34 Causes burns
R36/38 Irritating to eyes and skin
R38 Irritating to skin.
R43 May cause sensitisation by skin contact
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.
R52/53 Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment
R53 May cause long-term adverse effects in the aquatic environment.

Full text of the hazard statements (H) mentioned in sections 2 and 3 (classification according to Regulation (EC) No. 1272/2008 (CLP)):

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H290 May be corrosive to metals
H301 Toxic if swallowed
H302 Harmful if swallowed
H311 Toxic in contact with skin
H314 Causes severe skin burns and eye damage
H315 Causes skin irritation.
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H331 Toxic if inhaled
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.
H413 May cause long lasting harmful effects to aquatic life

Other information:

This Safety Data Sheet is based on the national legislation in force and on our current knowledge regarding this product when the sheet was prepared. The purpose of this sheet is to describe the product from the points of view of safety in use, handling and transport.

The physical-chemical data describe the product from the point of view of the safety requirements and they do not represent a guarantee regarding the specific properties of the product, which can be found in the product specification or in the contract.

The manufacturer and the distributor are not responsible for other uses of this product than the recommended ones. The user will be always responsible for taking all the precaution measures for each section of this Safety Data Sheet, so that to ensure the safe use of the product.

Safety Data Sheet, complying with Regulation (EC) No. 453/2010.

See sections: 2, 3 and 15.

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Label complying with Directive 1999/45/EC and Government Decision 937/2010:

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Contains: Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs., 1,2-Propanediol, 3-amino-, N,N dicoco alkyl derivs., Ethanol, 2,2'-iminobis-,N-tallow alkyl derivatives.	
Xi	
	
Symbol:	Irritant
R43 May cause sensitisation by skin contact.	
S2 Keep out of the reach of children.	
S24/25 Avoid contact with skin and eyes.	
S29 Do not empty into drains.	
S36 Wear suitable protective clothing.	
S60 This material and its container must be disposed of as hazardous waste.	
S61 Avoid release to the environment. Refer to special instructions / safety data sheets.	
EC label	0 – 30 L (52 x 74 mm) 3 - 50 L (74 x 105 mm) 50 - 500 L (105 x 148 mm)
Storage life: 5 years from the manufacture date	
 LUKOIL OIL COMPANY	
Manufacturer: LUKOIL LUBRICANTS EAST EUROPE S.R.L. 11-15 Tipografilor St, Building A2, ground floor, Bucharest, Sector 1, Romania, Emergency tel.: +40 244 504 651 from 9 ⁰⁰ to 17 ⁰⁰ E-mail: www.lukoil-lubricants.ro	

Label complying with Regulation (EC) 1272/2008:

Not available.