

SAFETY DATA SHEET

According to the Regulation (EC) 1907/2006 and Regulation (EC)1272/2008

LUKOIL VMGZ (V)

Issue date: Nov. 10, 2010

Harmonized Romanian Version Nov. 10, 2010

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

Identification of the substance / mixture

Product name: LUKOIL VMGZ (V)

ECHA Registration No.: 01-2119487488-18-0001

Use of substance: Base component used in the manufacturing of commercial lubricating oils, hydraulic lubricating oils or lubricating oils for industrial engines.

Identification of the manufacturer:

OOO "LUKOIL-Volgogradneftepererabotka"
Address: 55, "40 years VLKSM", Volgograd, Russia
Tel.: (8442) 96-30-93, Fax: (8442) 96-31-21
Emergency tel.: (8442) 96-30-10

Importer / distributor / user: **S.C. LLK LUBRICANTS ROMANIA S.R.L.**
235, Mihai Bravu Str., Oil Plant C-8, code 100410, Ploiesti, Prahova County, Romania
Tel: +40 244 504 651, Fax: +40 244 504 533
Emergency tel.: +40 244 504 651 between 9⁰⁰-17⁰⁰
E-mail: omartinas@petrotel.lukoil.com

2. HAZARD IDENTIFICATION

2.1 PRODUCT / MIXTURE CLASSIFICATION

Classification according to Directive EC 67/548/EEC or 1999/45/EC.

The product is classified as dangerous according to the Government Decisions **1408/2008** and **937/2010**.

Harmful: may cause lung damage if swallowed

Hazard for health:

Harmful: may cause lung damage if swallowed.

Excessive exposure to the product may sometimes cause irritation and/or dermatitis, depending on the individual sensitivity.

Hazards for the environment:

Avoid product release in the environment. Accidental releases form a film on water surface, obstructing oxygen transfer.

Classification according to Regulation CLP, Annex VI, Harmonized classification list (Regulation EC

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790/2009)

The product is classified as dangerous according to Regulation (EC) **1272/2008** and Regulation (EC) **790/2009**.

Safety hazards:

Substance with exposure occupational limit (see section 8).

2.2 LABELLING ELEMENTS

The product is labeled according to the Directive EC 67/548 and its amendments.

The product is labeled according to the Government Decisions 1408/2008 and 937/2010.

Labelling according to the EC Directives.

Xn



Harmful

Risk phrases (R):

R65 Harmful: may cause lung damage if swallowed.

Safety phrases (S):

S2 Keep out of the reach of children

S23 Do not breathe vapours/aerosols

S24 Avoid contact with skin.

S36 Wear suitable protective clothing.

S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Labelling according to the EC Regulation 1272/2008 on classification, labelling and packaging of substances and mixtures, and its amendments.

Aspiration hazard. Category 1.



Signal word
Danger

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Hazard phrases:

H304 May be fatal if swallowed and enters airways

Precaution phrases:

P102 Keep out of reach of children

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P331 Do NOT induce vomiting

P281 Use personal protective equipment as required.

P404 Store in a closed container

P501 Dispose of contents/container to authorized collecting centers.

3. COMPOSITION/INFORMATION ON COMPONENTS

Product description / characterisation: substance



CAS name: Hydrocarbons, C9-16, hydrotreated, dearomatized

CAS No.: 64742-81-0

EINECS No.: 265-184-9

Risk phrases (R), according to Directive EC 67/548/EC

Exposure hazard according to Regulation (CE) No. 1907/2006 and Regulation (EC) No. 1272/2008

| No. | Chemical name | CAS No./ EC No. | SYMBOLS/ R Phrases | Pictograms, Hazard phrases | Conc. [%] |
|-----|---|-------------------------|--|---|--------------|
| 1. | Hydrocarbons, C9-16, hydrotreated, dearomatized; Kerosine — unspecified | 93763-35-0 297-854-1 |  Xn, R65 Note H |  H304 Note H | 100.0 |

The list of risk phrases / exposure hazards mentioned in this section can be also found in section 16.

Note H

The classification and labeling shown for this substance are applied to the hazard or hazards indicated by the hazard phrase(s) in combination with the hazard class(es) and category(ies) shown. The requirements of art. 4 imposed on the manufacturers, importers and downstream users of this substance apply to all the other hazard classes and categories. As far as the hazard classes within which the exposure way or the nature of the effects results in a classification differentiation within the hazard class, the manufacturer, importer or downstream user must take into consideration the exposure ways or the nature of the effects that have not already been taken into consideration (Annex VI – Regulation EC 1272/2008).

4. FIRST AID MEASURES

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| | |
|---------------------------------------|---|
| General information: | 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. Remove the product-contaminated clothes and footwear. |
| 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 |
| Contact with the eyes: | Wash the eyes with plenty of water, repeatedly, for 15 minutes. If irritation occurs, get specialized medical attention (ophthalmologist). |
| Contact with the skin: | Wash with water and soap the area that came into contact with the product. If irritation appears, get medical attention. |
| Ingestion: | Do not induce vomiting. Wash the mouth with water. If vomiting sensation or other symptoms appear, immediately get medical attention and show the safety data sheet. If involuntary vomiting occurs, keep the patient's head bent downwards, so as to avoid product aspiration into lungs. |
| Information for the physician: | Substance aspiration into lungs may cause severe pulmonary diseases. Give symptomatic treatment. |

5. FIRE-FIGHTING MEASURES

| | |
|---|---|
| Recommended extinguishing media: | Foam, chemical powder, carbon dioxide, sprayed water, sand. |
| Not recommended extinguishing media: | Water jet, due to safety reasons, as it may cause foaming and fire propagation. The spilled but not-ignited product should be covered with sand or foam. |
| Special exposure hazards caused by the burning substances or products generated during a fire: | During a fire, carbon oxides, incomplete combustion products and toxic smoke may be released. Avoid spraying hot surfaces or electric circuits with the product. Product losses from pipes under pressure generate product mist. |
| 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. Closed area fires shall be extinguished by specialized personnel only. |
| Protective equipment for fire fighters: | |

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Special protective equipment shall be used. Respiratory system protection is necessary, mainly in closed spaces. The 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

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

Isolate the contaminated area.
Remove fire or spark sources.
Local ventilation is provided as 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.

Precautionary measures regarding the environment:

Stop the spillage without assuming risks. Do not touch and do not step on the spilled material. 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.

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.

7. HANDLING AND STORAGE

Handling:

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

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Instructions for safe handling:

Handle and store the product in well-ventilated areas only.
Avoid the contact with eyes, skin and clothes.
Prevent aerosol forming and small product leakage to avoid slipping risk.
When the product is handled (pipeline system filling, product transfer), all the technical equipment and plants used for this purpose shall be connected to the earthing belt, to prevent electrostatic discharges.
Electric plants and equipment shall meet the safety requirements (explosion proof) during the operation in an environment with potential explosion hazard.
The personnel shall use protective equipment complying with section 8 and it shall be trained regarding the health and safety at work, the first aid as well as the fire-prevention and fire-fighting measures.

Safety storage conditions, any incompatibilities included

Storage:

Follow the specific norms for petroleum product storage.
The product shall be stored in tightly sealed tanks/containers/drums, labeled and placed in well-ventilated and covered spaces, away from heat sources, solar radiation or ignition sources. The floor should be impermeable. In case of accidental liquid spillage, the product shall be collected in the specially built gutters. In the properly ventilated storage rooms it is forbidden to work with open fire and the lighting system shall have a protection system against explosion.

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.

Storage temperature:

- 5 °C and + 40 °C.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure control measures:

Provide ventilation with exhausting system, so that not to exceed the limit values of occupational exposure.

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:

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| No. | COMPONENT | Limit value, mg/m ³ | |
|-----|------------------|--------------------------------|-----------------------------------|
| | | Long term exposure 8 hours | Short term exposure 15 minutes |
| 1. | Base oils (mist) | 5 mg/m ³ | 10 mg/m ³ |

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 closed spaces, a respiratory protection device shall be used.

Hands protection: Use gloves resistant to lubricating oil (complying with SR EN 374).

Eyes protection: Wear safety glasses.

Body protection: Protective equipment, including footwear resistant to mineral oil.

General protection and hygiene measures:

Avoid the contact with eyes, skin and footwear.
 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 eye showers and shower cabins near working places.

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

Information regarding the main physical and chemical properties

| Physical-chemical characteristics | Values | Test methods |
|-----------------------------------|----------------|--------------|
| State of aggregation | Liquid | - |
| Smell | Specific smell | - |
| Pour point, °C | - 55 | ASTM D 97 |
| Flash point in open cup, °C | 120 | ASTM D 92 |

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| | | |
|---|---------------|-------------|
| Boiling range, °C | 272.0 – 328.0 | ASTM D 2887 |
| Kinematic viscosity at 40 °C, mm²/sec | 4.98 | ASTM D 445 |
| Density at 15 °C, kg/m³ | 0.8684 | ASTM D 4052 |
| Base number, mg KOH/g | 0.05 | ASTM D 2896 |
| Water content, (IP438), ppm, max. | absent | ASTM D 6304 |
| Mechanical impurities | absent | GOST 6370 |
| Water solubility | not soluble | |

10. STABILITY AND REACTIVITY

| | |
|--|---|
| Stability: | The product is stable under normal use and storage conditions. |
| Materials to be avoided: | Highly oxidizing substances. |
| Conditions to be avoided: | High temperatures, ignition sources. |
| Hazardous decomposition products: | In case of heating or fire, carbon monoxide, carbon dioxide and low molecular weight hydrocarbons may form. |

11. TOXICOLOGICAL INFORMATION

Acute toxicity

| | |
|---------------------------------|--|
| Acute oral toxicity: | LD ₅₀ , oral, rats > 5000 mg/kg (Concawe studies based on 4 tests on 4 CASs from the kerosine class). |
| Acute dermal toxicity: | LD ₅₀ , dermal, rabbits > 2000 mg/kg (Concawe studies based on 4 tests on 4 CASs from the kerosine class). |
| Acute inhaling toxicity: | LD ₅₀ , inhaling > 5200 mg/m ³ (Concawe studies based on 4 tests on 4 CASs from the kerosine class). |

Irritating effects

| | |
|-------------------------------|---|
| Contact with the eyes: | Not irritating (Concawe studies - it does not need a classification). |
| Contact with the skin: | Not irritating (Concawe studies - it does not need a classification). |
| Sensitization: | Not sensitizing (Concawe studies based on 8 tests on 2 CASs from the kerosine class). |

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| | |
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| Inhalation: | High vapour concentration or product mist may irritate the respiratory system. |
| Ingestion: | Symptoms that may occur: vomiting, nausea, stomach pains. During involuntary vomiting, the product may be aspirated into lungs and may cause severe pulmonary diseases |
| Chronic effects | |
| Carcinogenic effect: | Concawe source: based on 10 studies on 3 CASs from the kerosine class, severe irritations were noted, which may be transformed into tumors after extended dermal exposure, due to the intrinsic properties of the tested kerosines). |
| Mutagenic effect: | Not mutagenic. (From the evaluation of the data obtained <i>in vivo</i> and <i>in vitro</i> on the "KEROSINE" category, this product is included in, it results that this category of oils is not mutagenic (Concawe studies). |
| Reproduction toxicity: | Not toxic for reproduction (Concawe toxicological studies on reproduction and growth according to OECD 421 or 422 – Concawe). |
| The substance is classified as dangerous for human health. | |

12. ECOLOGICAL INFORMATION

| | |
|---|---|
| Ecotoxicity | |
| Acute aquatic toxicity: | |
| Toxicity, fish, 96h: | LC50 = 18 mg/l - tested species (Fathead minnow) (Concawe studies). |
| Toxicity, water fleas, 48h: | LE50 = 1.9 mg/l tested species Marine amphipod - <i>Daphnia Magna</i> (Concawe studies) |
| Growth inhibition, algae, 72h: | IL50 = 3.7 mg/l (algae) NOEL = 0.8 mg/l - (CONCAWE studies). |
| Breath inhibition on active mud, 4 days: No data are available | |
| Biodegradation: | Inherently biodegradable (CONCAWE studies). |
| Bioaccumulation: | The product is bioaccumulable. |
| The substance is not classified as dangerous for the environment. | |

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13. DISPOSAL CONSIDERATIONS

Product waste: It should be treated as a hazardous waste and handed over to the authorized collecting points, according to the laws in force.

Waste disposal legislation: Government Emergency Ordinance 78/2000 on the regime of waste, approved by Law 426/2001;
 Government Emergency Ordinance 16/2001 on the management of recyclable industrial waste, approved with amendments by Law 465/2001;
 Government Decision 128/2002 on waste incineration, amended and supplemented by Government Decision 268/2005;
 Order of the Ministry of Water and Environment Protection No. 756/2004 for approving the Technical norms on waste incineration;
 Government Decision 349/2005 on waste storage;
 Government Decision 235/2007 on waste lubricating oil management.
 Government Decision 856/ 2002 on waste record-keeping and management and for approving the list which includes the wastes, hazardous ones included.
 Government Decision 1061/2008 on hazardous and non- hazardous waste transport in Romania.
 Government Decision 427/2010 on amending and supplementing of Government Decision 128/2002 on waste incineration.

Product waste code: 13 08 oil wastes not otherwise specified.
 The waste code is set according to the use. When the product is used for other purposes, the user is obliged to give the product another code.

Waste container disposal: Containers that contain substance residues should be treated as a hazardous waste and handed over to the authorized collecting points, according to the laws in force.

Legislation on packaging waste: Government Decision 621 /2005 on the management of packaging and packaging waste.
 Government Decision 1872/2006 on the change and supplementing of Government Decision 621 /2005 regarding the management of packaging and packaging waste.

Packaging waste code: 15 01 10* packaging which contain residues or are contaminated with hazardous substances.

14. TRANSPORT INFORMATION

Road / railway transport (ADR/RID):
 Product name: Not restricted

Transport by sea (IMDG):

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Product name: Not restricted

Air transport (IATA):

Product name: Not restricted

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

15. REGULATORY INFORMATION

Tactile symbol of hazard: If the product is distributed to the population, the symbol is necessary.

National regulations:

Regulation (EC) No. 1907/2006 - REACH.

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

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

Government Decision 1272/2008 on classification, packaging and labelling of substances and mixtures, change and abrogation of directives 67/548/EEC and 1999/45/CE, as well as the Regulation EC 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.

Regulation 552/2009 amending Annex XVII of Regulation (EC) No. 1907/2006 - REACH "Restrictions on the production, marketing and use of certain hazardous substances, mixtures and articles".

Government Decision 735/2006 on limiting the emissions of volatile organic compounds.

Government Decision 371/2010 on 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 equipments.

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.

Government Decision 882/2007 on appointing competent authorities for applying Regulation (EC) No. 1907/2006/CE - REACH.

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/CE of the Commission.

Government Decision 398/2010 on establishing measures for application of Regulation 1272/2008 of the European Parliament and of the Council from 16th of December 2008 on classification, labelling and packaging of substances and mixtures, of amending and repealing of Directives 67/548/EEC and 1999/45/EEC as well as amending of Regulation 1907/2006.

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Regulation (EU) 453/2010 of the Commission dated the 20th of May 2010 on amending Regulation 1907/2006 of the European Parliament and of the Council on registration, evaluation, authorisation and restriction of chemical substances (REACH).

Restrictions on placing on the market and using, Regulation 552/2009:

The product is not restricted.

16. OTHER INFORMATION

Risk phrases for the components mentioned in section 3:

R65 Harmful: may cause lung damage if swallowed.

Hazard phrases for the components mentioned in section 3:

H304 May be fatal if swallowed and enters airways.

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.

Reason of revision: A new Safety data sheet, complying with Regulation (EC) No. 1272/2008.

See sections; 2, 3 and 15.

It replaces the July 15, 2009 issue.

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Label according to Government Decision 1408/2008 and Directive EC 67/548/EEC:

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|--|---------------------------|
| LUKOIL VMGZ (V) Hydrocarbons, C9-16, hydrotreated, dearomatized (EC No.: 297-854-1) | |
| Xn  Harmful | |
| R65 Harmful: may cause lung damage if swallowed. | |
| S2 Keep out of the reach of children S23 Do not breathe vapours/aerosols S24 Avoid contact with skin. S36 Wear suitable protective clothing. S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. | |
| Label EC | 50 - 500 L (105 x 148 mm) |
| Validity: . . . | |
|  S.C. LLK LUBRICANTS ROMANIA S.R.L. 235, Mihai Bravu Street, Oil Plant C-8, code 100410 Ploiești, Prahova county, Romania Tel: +40 244 504 651, Fax: +40 244 504 533 Emergency phone: +40 244 504 651 between 9 ⁰⁰ -17 ⁰⁰ E-mail: omartinas@petrotel.lukoil.com Manufacturer: OOO "LUKOIL-Volgogradneftepererabotka" Address: 55, "40 years VLKSM", Volgograd, Russia | |

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Label according to Regulation (EC) 1272/2008:

|  LUKOIL VMGZ (V) Hydrocarbons, C9-16, hydrotreated, dearomatized (EC No.: 297-854-1) | | | |
|--|--|--|---------------------------------|
| <p>Company: S.C. LLK LUBRICANTS ROMANIA S.R.L. 235, Mihai Bravu Str., Oil Plant C-8, code 100410 Ploiesti, Prahova County, Romania Tel/Fax: +40 244 504 533, Emergency phone: +40 244 504 651 (from 9⁰⁰ to 17⁰⁰) E-mail: omartinas@petrotel.lukoil.com</p> | |  Signal word Danger | UN number: - Product name: - |
| Usage instructions: | | H304 May be fatal if swallowed and enters airways P102 Keep out of reach of children P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P331 Do NOT induce vomiting P281 Use personal protective equipment as required. P404 Store in a closed container P501 Dispose of contents/container to authorized collecting centers | [Product code:] |
| Contents weight: ... Total weight: ... | Lot No.: ... Manufacturing date: | | |
| Expiry date: ... | | | |