



SAFETY DATA SHEET
according to 1907/2006/EC, Article 31, Annex II as amended

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Масло Gazpromneft Hydraulic HVLP-46

Revision 2

Revision date 20.02.2017

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

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| 1.1. Product Identifier | |
| Product name | Масло Gazpromneft Hydraulic HVLP-46 |
| 1.2. Relevant identified uses of the substance or mixture and uses advised against | |
| Description | Hydraulic oil |
| 1.3. Details of the supplier of the safety data sheet | Manufacturer: "Gazpromneft – lubricants", Ltd, 14/3 Krzhizhanovskogo str. 117218, Moscow- Russia. Lubricants@gazprom-neft.ru Tel. +7 495 642-99-69 (between 9 AM and 6 PM Moscow time). Fax +7 495 921-48-63 |
| Only Representative | REACHLaw Ltd. Vänrikinkuja 3 JK 21 Espoo FI-02600 Finland Tel. +358(0) 9 412 3055 Email: sds@reachlaw.fi |
| 1.4. Emergency telephone number | 1-760-476-3962 (America) 1-760-476-3961 (Europe, Middle East&Africa) 1-760-476-3960 (Asia Pacific): Global Response Access Code: 333497 |

2. HAZARDS IDENTIFICATION

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| 2.1. Classification of the substance or mixture | |
| Regulation (EC) No 1272/2008 (CLP): | The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). |
| 2.2. Label elements: | |
| Regulation (EC) No 1272/2008 (CLP): | The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). Special Provisions: EUH210: Safety data sheet available on request. |
| Adverse physicochemical, human health and environmental effects: | No other hazards |
| Ingredient(s) with unknown acute toxicity: | None |
| 2.3 Other hazards | |
| | No Significant Hazard |

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| Further information | This substance/mixture does not meet the PBT/vPvB criteria of REACH, annex XIII. |
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3. COMPOSITION/INFORMATION ON INGREDIENTS

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| 3.1 Substances | |
| | Not applicable: this product is regulated as a mixture. |

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3.2 Mixtures (EC) No 1272/2008

| Chemical Name | Index.No | CAS No | EC No | Reach Registration Number | Conc. (%w/w) | Classification |
|---|--------------|------------|-----------|---------------------------|--------------|---|
| Base oil - unspecified - lubricating oils | 649-484-00-0 | 74869-22-0 | 278-012-2 | 01-2119495601-36-0023 | 90-95 | Product is not classified |
| Zinc alkyl dithiophosphate | - | 68649-42-3 | 272-028-3 | Not Available | 0.5-1.0 | Eye Dam. 1, H318 Aquatic Chronic 2, H411 |

Description

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| | All base oils contained in this product have a value of < 3% w DMSO extract according to IP 346/92. |
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Further information

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| | Full text for all Hazard statements, mentioned in this section, are displayed in Section 16. |
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4. FIRST AID MEASURES

4.1. Description of first aid measures

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| Inhalation | Remove casualty to fresh air and keep warm and at rest. |
| Eye contact | Wash immediately with water. |
| Skin contact | Wash with plenty of water and soap. |
| Ingestion | Do not induce vomiting, get medical attention showing the SDS and label hazardous. |

4.2. Most important symptoms and effects, both acute and delayed

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|---------------------|--|
| Inhalation | No further relevant information available. |
| Eye contact | No further relevant information available. |
| Skin contact | No further relevant information available. |
| Ingestion | No further relevant information available. |

4.3. Indication of any immediate medical attention and special treatment needed

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| | Seek medical attention if irritation or symptoms persist |
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5. FIRE-FIGHTING MEASURES

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| 5.1. Extinguishing media | Use extinguishing media appropriate to the surrounding fire conditions (carbon dioxide (CO ₂); dry chemical; foam; sand; water spray). Extinguishing media which must not be used for safety reasons: none in particular. |
| 5.2. Special hazards arising from the substance or mixture | Burning produces irritating, toxic and obnoxious fumes. Combustion products highly dependent on combustion conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide and unidentified organic compounds will be evolved when this material undergoes combustion. |
| 5.3. Advice for firefighters | Wear suitable respiratory equipment when necessary. Do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely. |

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| 6. ACCIDENTAL RELEASE MEASURES | |
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| 6.1. Personal precautions, protective equipment and emergency procedures | Eliminate all sources of ignition in vicinity of spilled material. Ensure adequate ventilation of the working area. Surfaces contaminated with the product will become slippery. Wear personal protection equipment. See protective measures under point 7 and 8. |
| 6.2. Environmental precautions | Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it. In case of entry into waterways, soil or drains, inform the responsible authorities. Suitable material for taking up: absorbing material, organic, sand. |
| 6.3. Methods and material for containment and cleaning up | Use appropriate techniques such as applying noncombustible absorbent materials or pumping. Sweep up. Transfer to suitable, labeled containers for disposal. Clean spillage area thoroughly with plenty of water. |
| 6.4. Reference to other sections | See also section 8 and 13 |
| 7. HANDLING AND STORAGE | |
| 7.1. Precautions for safe handling | Avoid contact with skin and eyes, inhalation of vapors and mists. Contaminated clothing should be changed before entering eating areas. Do not eat or drink while working. See also section 8 for recommended protective equipment. |
| 7.2. Conditions for safe storage, including any incompatibilities | Keep in a cool, dry, well-ventilated area. Keep containers tightly closed. Stored in correctly labeled containers. |
| 7.3. Specific end use(s) | No further relevant information available. |
| 8. EXPOSURE CONTROLS/PERSONAL PROTECTION | |
| 8.1. Control parameters | |
| Base oil - unspecified - lubricating oils | WEL 8-hr limit mg/m ³ : 5.4 (aerosol) |
| 8.2. Exposure controls | |
| 8.2.1. Appropriate engineering controls | Material should be handled in enclosed vessels and equipment, in which case general (mechanical) room ventilation should be sufficient. Local exhaust ventilation or adequate ventilation should be used at points where dust, mist, vapors or gases can escape into the room air. |
| 8.2.2. Individual protection measures: | Wear protective clothing. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. |
| Eye/face protection | Not needed for normal use. Anyway, operate according good working practices. In case of splashing, wear: approved safety goggles. |
| Skin protection-Hand protection | Protection for skin: Use nitrile or neoprene gloves. Long sleeve shirt is recommended. Wear a chemically protective when contact with material may occur. Use neoprene or nitrile rubber boots when necessary to avoid contaminating shoes. Launder contaminated clothing before reuse. Protection for hands: Not needed for normal use. |

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| Respiratory protection | Use in ventilated area. Use respirator with a combination organic vapor and high efficiency filter cartridge just if recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. |
| Hygienic and Technical measures | Wash thoroughly after handling this product. Do not eat, drink or smoke when using this product. |
| 9. PHYSICAL AND CHEMICAL PROPERTIES | |
| Appearance | Yellow liquid |
| Odour | Petroleum odor |
| pH | Not applicable |
| Pour point | < - 40 °C |
| Initial boiling point and boiling range | Not applicable |
| Flash point | > 200 °C (Cleveland Open Cup, ASTM D 92) |
| Evaporation rate | Not applicable |
| Upper/lower flammability | 187°C /234°C |
| Vapour density | Not applicable |
| Vapour pressure | <0.01 kPa |
| Relative density | Not determined |
| Solubility in water | Insoluble |
| Partition coefficient: n-octanol/water | Not determined |
| Auto-ignition temperature | >347 °C |
| Decomposition temperature | Not applicable |
| Viscosity (at 40 °C) | 41,40-50,60 mm ² /s (ASTM D 445) |
| Explosive properties | Not applicable |
| Oxidizing properties | Not determined |
| Volatile Organic compounds - VOCs | Not applicable |
| Other information | |
| Miscibility | Not applicable |
| Conductivity | Not applicable |
| 10. STABILITY AND REACTIVITY | |
| 10.1. Reactivity | This product has no significant hazards with respect to reactivity. Stable under normal conditions |
| 10.2. Chemical stability | Stable under normal conditions. Will not decompose if stored and used as recommended. |
| 10.3. Passivity of hazardous reactions | Will not occur. Stable under normal conditions. |
| 10.4. Conditions to avoid | Elevated temperatures, sparks and open flames. |
| 10.5. Incompatible materials | Strong oxidizing agents. |
| 10.6. Hazardous decomposition products | Burning produces irritating, toxic and obnoxious fumes. |
| 11. TOXICOLOGICAL INFORMATION | |
| 11.1. Information on toxicological effects | |
| Acute Toxicity of base oils | Acute oral/rat LD ₅₀ > 5000 mg/kg Acute dermal/rabbit LD ₅₀ > 2000 mg/kg Acute inhalation/rat LC ₅₀ > 5000 mg/m ³ |

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| Acute Toxicity of zinc dialkyl dithiophosphate | Acute dermal/rat LD ₅₀ >2000 mg/kg Acute oral/rat LD ₅₀ :3080 mg/kg |
| Acute Toxicity of the mixture | Based on available data, the classification criteria are not met. Products have not been tested. Evaluation has been made through data of components. |
| Skin corrosion/irritation | Avoid direct contact. Repeated or prolonged skin contact may cause irritation. Contact with heated product may cause thermal burns. Based on data from components or similar materials. |
| Serious eye damage/irritation | Vapors may cause eye damage/irritation. Evaluation is based on data from components or similar materials. |
| Respiratory or skin sensitization | Skin: Products have not been tested. Evaluation has been made through data of components. Respiratory: No data available to indicate product or components may be respiratory sensitizers. |
| Carcinogenicity | This product contains mineral oils which are severely refined and not considered to be carcinogenic under IARC. All components in this product have been passed the test IP346 (DMSO extractible compounds less than 3%). |
| Germ cell mutagenicity | Not Applicable. |
| Reproductive toxicity | Not Applicable |
| STOT-single exposure | Not Applicable |
| STOT-repeated exposure | Not Applicable |
| Aspiration hazard | Not considered an aspiration hazard. |

12. ECOLOGICAL INFORMATION

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| 12.1. Toxicity | Adopt good working practices, so that the product is not released into the environment. |
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List of components with eco-toxicological properties

| Quantity | Component | Ident. Numb. | Ecotox Infos |
|----------|---|--------------------------------------|---|
| 90-95 | Base oil - unspecified - lubricating oils | CAS: 74869-22-0 EINECS: 278-012-2 | EL ₅₀ a) Aquatic acute toxicity Daphnia magna, 48hr> 10000 mg/L 48h NOELR a) Aquatic acute toxicity Algae Algae> 100 mg/L 72h LL ₅₀ a) Aquatic acute toxicity Fish > 100 mg/L 96h NOELR b) Aquatic chronic toxicity Daphnia magna, 21 days= 10mg/L NOELR b) Aquatic chronic toxicity Fish = 10 mg/L |

Conclusion/Summary: Based on available data, the classification criteria are not met.

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| 12.2. Persistence and degradability | Base oil - unspecified - lubricating oils: non-readily biodegradable. |
| 12.3. Bio accumulative potential | No data is available on this product. |
| 12.4. Mobility in soil | Product floats on water (insoluble) and can entrap small organisms. The product could easily disperse in soil. Products have not been tested. Evaluation has been made through data of components. |
| 12.5. Results of PBT and vPvB assessment | No PBT Ingredients are present. |
| 12.6. Other adverse effects | No components with environmental hazard properties. |

13. DISPOSAL CONSIDERATIONS

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| 13.1. Waste treatment methods | |
| Disposal methods | Dispose of in compliance with all local and national regulations. Contact a licensed waste disposal company. |
| Disposal of packaging | Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling. |

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| Further information | For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. |
| 14. TRANSPORT INFORMATION | |
| Not classified as dangerous in the meaning of transport regulations. | |
| 14.1. UN number | Not applicable. |
| 14.2. UN proper shipping name | Not applicable. |
| 14.3. Transport hazard class(es) | Not applicable. |
| 14.4. Packing group | Not applicable. |
| 14.5. Environmental hazards | Marine pollutant: No Environmental Pollutant: No |
| 14.6. Special precautions for user | Not applicable. |
| ADR/RID | The product is not classified as dangerous for carriage. |
| IMDG | The product is not classified as dangerous for carriage. |
| IATA | The product is not classified as dangerous for carriage. |
| 15. REGULATORY INFORMATION | |
| 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture | Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Regulation (EU)2015/830 Provisions related to directive EU 2012/18 (Seveso III): German Water Hazard Class. Class 1: slightly hazardous for water. Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: Restrictions related to the product: None Restrictions related to the substances contained: None |
| Chemical safety assessment | No data available on this product. |
| 16. OTHER INFORMATION | |
| Text of Hazard statements in Section 3 | H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects. |
| Legend to abbreviations and acronyms used in the safety data sheet: | ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. CAS: Chemical Abstracts Service (division of the American Chemical Society). CLP: Classification, Labeling, Packaging DMSO: Dimethyl sulfoxide. EC ₅₀ : Half Maximal Effective Concentration. |

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| Legend to abbreviations and acronyms used in the safety data sheet: | <p>EINECS: European Inventory of Existing Commercial Chemical Substances.</p> <p>IATA: International Air Transport Association.</p> <p>IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).</p> <p>LD₅₀: Lethal Dose to 50 % of a test population.</p> <p>LC₅₀: Lethal Concentration to 50 % of a test population.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p> <p>WEL: Workplace Exposure Limit.</p> |
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Classification and procedure used to derived the classification for mixture according to Regulation EC 1272/2006 (CLP)

| Classification according to Regulation EC 1272/2006 (CLP) | Classification procedure |
|--|--------------------------|
| The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). | Calculation method. |

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| Further information | The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This 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 other process. |
| Revision 2 | <p>This document differs from the previous version in the following areas:</p> <ol style="list-style-type: none"> 1. Identification of the substance/preparation and the company 3. Composition/information on ingredients. 11. Toxicological information 15. Regulatory information. 16. Other information. |