



SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

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Масло М-14В₂ (М-14V₂)

Revision 1

Revision date 20.01.2017

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

1.1. Product Identifier	
Product name	Масло М-14В ₂ (М-14V ₂)
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Description	Engine oil designed for lubricating of two- and four-stroke engines install on locomotives, marine and stationary diesel engines.
1.3. Details of the supplier of the safety data sheet	“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

2.1. Classification of the substance or mixture	
Main hazards	No Significant Hazard
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
Further information	
	This substance/mixture does not meet the PBT/vPvB criteria of REACH, annex XIII.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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	50-55	Product is not classified
Base oil - unspecified - Residual oils (petroleum), solvent-dewaxed	649-471-00-X	64742-62-7	265-166-0	01-2119480472-38-0023	45-50	Product is not classified
Zinc alkyl dithiophosphate	-	4259-15-8	224-235-5	05-2114666814-38-0000	0,1-0,5	Skin Irrit. 2 H315 Eye Dam 1 H318 Aquatic Chronic 2H411

Description

	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

	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**

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

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

	No further relevant information available.
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4.3. Indication of any immediate medical attention and special treatment needed

	Seek medical attention if irritation or symptoms persist
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5. FIRE-FIGHTING MEASURES**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.
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5.2. Special hazards arising from the substance or mixture

	Do not inhale explosion and combustion gases.
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5.3. Advice for firefighters

	Burning produces heavy smoke.
	Use suitable 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.

6. ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

	Wear personal protection equipment. Remove persons to safety. See protective measures under point 7 and 8.
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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	Suitable material for taking up: absorbing material, organic, sand Wash 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 vapours and mists. Do not eat or drink while working. See also section 8 for recommended protective equipment.
7.2. Conditions for safe storage, including any incompatibilities	Incompatible materials: None in particular. Instructions as regards storage premises: Adequately ventilated premises.
7.3. Specific end use(s)	Recommendation(s) None in particular Industrial sector specific solutions: None in particular
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	
	All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled.
Eye protection	Safety Glasses.
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.
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.
Appropriate engineering controls	Not applicable
9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Homogenous, viscous liquid
Odour	Petroleum odor
pH	Not applicable
Pour point	< - 12 °C
Initial boiling point and boiling range	Not applicable
Flash point	>210 °C (Cleveland Open Cup, ASTM D 92)
Evaporation rate	Not applicable
Upper/lower flammability	212 °C / 256 °C

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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, in the range	300-350 °C
Decomposition temperature	Not applicable
Viscosity (at 100 °C)	13,50-14,50 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	Toxicological information of the mixture: There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.
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
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	The product is not carcinogenic. Evaluation has been made through data of components. Base oils passed the test IP 346 (DMSO extractible compounds less than 3%) (Note H, L).

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Germ cell mutagenicity	Not Applicable
Reproductive toxicity	Not Applicable
STOT-single exposure	Not Applicable
STOT-repeated exposure	Not Applicable
Aspiration hazard	Not Applicable

12. ECOLOGICAL INFORMATION

12.1. Toxicity	<p>Adopt good working practices, so that the product is not released into the environment.</p> <p>Toxicological information of the mixture: There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.</p>
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List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
50-55%	Base oil - unspecified - lubricating oils	CAS: 64742-62-7 - EINECS: 265-166-0	Aquatic acute toxicity EL ₅₀ a) Aquatic acute toxicity Daphnia magna, 48hr > 10000 mg/L 48h NOELR a) Aquatic acute toxicity Algae > 100 mg/L 72h NOELR b) Aquatic chronic toxicity Daphnia magna, 21 days = 10 mg/L NOELR b) Aquatic chronic toxicity Fish = 10 mg/L
45-50%	Base oil - unspecified - Residual oils (petroleum), solvent-dewaxed	CAS: 74869-22-0 - EINECS: 278-012-2	EL ₅₀ a) Aquatic acute toxicity Daphnia Magna > 10000 mg/L 48h NOELR a) Aquatic acute toxicity Algae > 100 mg/L 72h LL ₅₀ a) Aquatic acute toxicity Fish > 100 mg/L 96h NOELR b) Aquatic chronic toxicity Daphnia Magna = 10 mg/L 21 days NOELR b) Aquatic chronic toxicity Fish = 10 mg/L

12.2. Persistence and degradability	Base oil - unspecified - lubricating oils: non-readily biodegradable Base oil - unspecified - Residual oils (petroleum), solvent-dewaxed: non-readily biodegradable.
12.3. Bio accumulative potential	No date 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

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.
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.

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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	<p>Dir. 98/24/EC (Risks related to chemical agents at work)</p> <p>Dir. 2000/39/EC (Occupational exposure limit values)</p> <p>Dir. 2006/8/EC</p> <p>Regulation (EC) n. 1907/2006 (REACH)</p> <p>Regulation (EC) n. 1272/2008 (CLP)</p> <p>Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013</p> <p>Regulation (EU) n. 286/2011 (ATP 2 CLP)</p> <p>Regulation (EU) n. 618/2012 (ATP 3 CLP)</p> <p>Regulation (EU) n. 487/2013 (ATP 4 CLP)</p> <p>Regulation (EU) n. 944/2013 (ATP 5 CLP)</p> <p>Regulation (EU) n. 605/2014 (ATP 6 CLP)</p> <p>Regulation (EU)2015/830</p> <p>Provisions related to directive EU 2012/18 (Seveso III):</p> <p>German Water Hazard Class. - Not applicable.</p> <p>Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:</p> <p>Restrictions related to the product: None</p>
Chemical safety assessment	No data available on this product.
16. OTHER INFORMATION	
Text of Hazard statements in Section 3	<p>H315 - Causes skin irritation.</p> <p>H318 - Causes serious eye damage.</p> <p>H411 - Toxic to aquatic life with long lasting effects.</p>
Legend to abbreviations and acronyms used in the safety data sheet:	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>CAS: Chemical Abstracts Service (division of the American Chemical Society).</p> <p>CLP: Classification, Labeling, Packaging.</p> <p>DMSO: Dimethyl sulfoxide.</p> <p>EC₅₀: Half Maximal Effective Concentration.</p> <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>STOT: Specific Target Organ Toxicity.</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.

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 1	This document differs from the previous version in the following areas: 1. Identification of the substance/preparation and the company 4. First aid measures 6. Accidental release measures 7. Handling and storage 8. Exposure control/personal protection 11. Toxicological information 12. Ecological information 15. Regulatory information 16. Other information