SAFETY DATA SHEET

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

Gazpromneft Universal Grease

Revision 0
Revision date 12.12.2018

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY	
1.1. Product Identifier	
Product name	Gazpromneft Universal Grease
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Description	Multipurpose EP lithium grease.
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 For: CAS 74869-22-0, CAS 64742-62-7, CAS 7620-77-1	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	
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. ***Contains:*** Reaction product of 4-methyl-2-pentanol and diphosphorus pentasulfide propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, c-12-14 tert-alkyl; May produce an allergic reaction.
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.

3.2 Mixtures

Mixture identification: Gazpromneft Universal Grease

Hazardous components within the meaning of the CLP regulation and related classification:

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	20-30	DECLL(*)
Base oil - unspecified - Residual oils (petroleum), solvent-dewaxed	649-471-00-X		265-166-0	01-2119480472-38-0023	40-50	DECLL(*)
Lithium 12-hydroxystearate	-	7620-77-1	231-536-5	01-2119970893-23-0019	1-5	Not classified
Phosphorodithioic acid, mixed O,Obis (iso-Bu and pentyl) esters, zinc salts	-		270-608-0	01-2119493628-22	0.1-1.0	Aquatic Chronic 2 H411 Eye Dam. 1 H318 Skin Irrit. 2 H315
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl	-	-	931-384-6	01-2119493620-38	0.1-0.5	Acute Tox. 4 H302 Aquatic Chronic 2 H411 Eye Dam. 1 H318 Skin Sens. 1 H317

(*)DECLL Substance classified in accordance with Note L, Annex VI of EC Regulation (EC) 1272/2008.
The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Description

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

Further information

	Full text for all Hazard statements, mentioned in this section, are displayed in Section 16.

4. FIRST AID MEASURES

4.1. Description of first aid measures

In case of skin contact:	Wash with plenty of water and soap.
In case of eyes contact:	Wash immediately with water.
In case of Ingestion:	Do not induce vomiting, get medical attention showing the SDS and label hazardous.
In case of Inhalation:	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.

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

	Seek medical attention if irritation or symptoms persist

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media	Suitable extinguishing media: water, carbon dioxide (CO_2). 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.
5.2. Special hazards arising from the substance or mixture	Do not inhale explosion and combustion gases. Burning produces heavy smoke.

5.3. Advice for firefighters	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	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, inhaltion 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	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	***Eye protection***: Safety Glasses.
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:*** Use protective gloves that provide comprehensive protection, e.g. P.V.C., neoprene or rubber.
Respiratory protection	Use in ventilated area. Use respirator with a combination organic vapor and high efficiency filter cartridge just if

Respiratory protection	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	Homogeneous paste from light-yellow to brown color
Odour	Petroleum odor
pH	Not applicable
Pour point	Not applicable
Initial boiling point and boiling range	Not applicable
Flash point	>200 °C (Cleveland Open Cup, ASTMD 92)
Evaporation rate	Not applicable
Upper/lower flammability	Not determined
Vapour density	Not applicable
Vapour pressure	Not applicable
Relative density	Not determined
Solubility	Soluble in most organic solvents, insoluble in water
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not applicable
Viscosity	Not applicable
Explosive properties	Not applicable
Oxidizing properties	Not determined
Volatile Organic compounds	Not applicable
Dropping Point	> 170 ºC
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	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	No data available
Respiratory or skin sensitization	Contains: reaction product of 4-methyl-2-pentanol and diphosphorus pentasulfide propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, c-12-14 tert-alkyl (Classification: Skin sensitizer (Measured) Category 1B) May produce an allergic reaction.
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).
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	Adopt good working practices, so that the product is not released into the environment.

List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
40-50 %	Base oil - unspecified - Residual oils (petroleum), solvent-dewaxed	CAS: 64742-62-7 EC: 265-166-0	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
0.1-1.0 %	Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts	EC:270-608-0	**Fish:** LC $_{50}$ (Rainbow Trout, 4 d): 4.5 mg/l ;LC $_{50}$ (Not reported, 4d): 46 mg/l; NOEC (Rainbow Trout, 4 d): 1.8 mg/l **Aquatic Invertebrates:** EC $_{50}$ (Water flea (Daphnia magna), 2d): 23 mg/l NOEC (Water flea (Daphnia magna), 2 d): 10 mg/l EC $_{50}$ (Water flea (Daphnia magna), 21 d): 0.8 mg/l **Toxicity to Aquatic Plants:** EC $_{50}$ (Green algae (Scenedesmus quadricauda), 3 d): 24 mg/l NOEC (Green algae (Scenedesmus quadricauda), 3 d): 1.8 mg/l
0.1-0.5 %	Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl	EC:931-384-6	**Fish:** LC $_{50}$ (Rainbow Trout, 4 Days): 24 mg/l NOEC (Rainbow Trout, 4 Days): 3.2 mg/l LC $_{50}$ (Fathead Minnow, 4 Days): 8.5 mg/l **Aquatic Invertebrates:** EC $_{50}$ (Water flea (Daphnia magna), 2d): 91.4 mg/l EC $_{50}$ (Water flea (Daphnia magna), 21 d): 0.66 mg/l NOEC (Water flea (Daphnia magna), 21 d): 0.12 mg/l **Toxicity to Aquatic Plants:** EC $_{50}$ (Green algae (selenastrum capricomutum), 4 Days): 6.4 mg/l NOEC (Green algae (selenastrum capricomutum), 4 Days): 1.7 mg/l

12.2. Persistence and degradability	No date is available on this product. Base oil - unspecified - lubricating oils; 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 entrape 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.
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) n. 605/2014 (ATP 6 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2015/1221 (ATP 7 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: 0
Chemical safety assessment	No data available on this product.

16. OTHER INFORMATION	
Text of Hazard statements in Section 3	H 302 Harmful if swallowed. H 304 May be fatal if swallowed and enters airways. H 315 Causes skin irritation. H 317 May cause an allergic skin reaction. H 318 Causes serious eye damage. H 411 Toxic to aquatic life with long lasting effects. 3.1/4/Oral Acute Tox. 4 Acute toxicity (oral), Category 4 3.10/1 Asp. Tox. 1 Aspiration hazard, Category 1 3.2/2 Skin Irrit. 2 Skin irritation, Category 2 3.3/1 Eye Dam. 1 Serious eye damage, Category 1 3.4.2/1 Skin Sens. 1 Skin Sensitisation, Category 1 4.1/C2 Aquatic Chronic 2 Chronic (long term) aquatic hazard, cat 2
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. EINECS: European Inventory of Existing Commercial Chemical Substances. IATA: International Air Transport Association. IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA). LD_{50}: Lethal Dose to 50 % of a test population. LC_{50}: Lethal Concentration to 50 % of a test population. PBT: Persistent, Bioaccumulative and Toxic substance. STOT: Specific Target Organ Toxicity. vPvB: Very Persistent and Very Bioaccumulative. WEL: Workplace Exposure Limit.

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 0	New version