

**SAFETY DATA SHEET****Литол-24****Revision**  
**Revision date****1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product Identifier**

Trade name	LITOL-24
Trade code	N.A.

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Recommended use	N.A.
Uses advised against	N.A.

**1.3. Details of the supplier of the safety data sheet**

Manufacturer	"Gazpromneft - lubricants" LTD, 125A, Profsoyuznaya str., Moscow, 117647, Russia. Email: Lubricants@gazprom-neft.ru Tel.: +7 495 642-99-69 (between 9 AM and 6 PM Moscow time) Fax: +7 495 921-48-63
Supplier	"Deny Trade" LTD, Office: Stara Zagora 6000, 92 Hristo Botev Str., 4th floor Warehouse: Zagora 6000, Kolyo Ganchev district, Agricultural aviation Tel./Fax: 042 606 899 service@maslagaz.com

**1.4. Emergency telephone**

National emergency telephone	112
National Toxicological Information Center, MHAT and Emergency Medicine "N. I. Pirogov"	Emergency telephone / fax: +359 2 9154 409 Email: poison_centre@mail.orbitel.bg http://www.pirogov.bg

**2. HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 (CLP)	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
Further information	For the full text of the hazard statements and EU hazard statements: see SECTION 16

**2.2. Label elements**

Labeling according to 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.

**2.3. Other hazards**

Other hazards	Special provisions according to Annex XVII of REACH and subsequent amendments: Restricted to professional users.
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**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances**

Substances	Not applicable
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**3.2. Mixtures**

CAS No.	EC No.	Index No.	REACH Registration No.	% [weight]	Substance name	Classification according to Regulation (EC) No 1278/2008 (CLP)
74869-22-0	278-012-2		01-2119495601-36	50-60	BASE OIL-UNSPECIFIED LUBRICATING OIL	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.
64742-62-7	265-166-0		01-2119480472-38	20-30	BASE OIL - UNSPECIFIED - RESIDUAL OILS (PETROLEUM), SOLVENT DEWAXED	DECLL(*)

**4. FIRST AID MEASURES****4.1. Description of first aid measures**

Following inhalation	Remove casualty to fresh air and keep warm and at rest.
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Following skin contact	Wash with plenty of water and soap.
Following eye contact	Wash immediately with water.
Following ingestion	Do not induce vomiting, get medical attention showing the SDS and label hazardous.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	
Inhalation acute effects	N.A.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	
Notes to physician	N.A.

## 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media	Water. Carbon dioxide (CO <sub>2</sub> ).
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### 5.2. Special hazards arising from the substance or mixture

Hazards from the substance or mixture	Do not inhale explosion and combustion gases. Burning produces heavy smoke.
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### 5.3. Advice for firefighters

Special precautions for fire-fighters	
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## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Protective equipment for non-emergency personnel	Wear personal protection equipment. Remove persons to safety. See protective measures under point 7 and 8.
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### 6.2. Environmental precautions

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 gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Suitable material for taking up: absorbing material, organic, sand.
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### 6.3. Methods and material for containment and cleaning up

For containment	Suitable material for taking up: absorbing material, organic, sand. Wash with plenty of water.
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### 6.4. Reference to other sections

Reference to other sections	See also section 8 and 13.
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## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Protective measures	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.
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### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	Incompatible materials: None in particular.
Further information on storage conditions	Adequately ventilated premises.

### 7.3. Specific end use(s)

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### List of components with OEL value

Component	OEL Type	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Behaviour	Note
BASE OIL-UNSPECIFIED LUBRICATING OILS	ACGIH	5.400					8H (aerosol)
BASE OIL - UNSPECIFIED - RESIDUAL OILS (PETROLEUM), SOLVENT DEWAXED	ACGIH	5.400					8H (aerosol)

### Predicted No Effect Concentration (PNEC) values

### Derived No Effect Level (DNEL)

### 8.2. Exposure controls

Substance/mixture related measures to prevent exposure during identified uses	Ensure replacement ventilation or other ventilation systems to maintain concentrations of substances conveyed by air below their respective occupational exposure limits. All activities involving chemicals must be assessed for their health risks in order to ensure that the exposure is adequately monitored. Wear protective clothing. Personal protective equipment must conform to the appropriate standards, suitable for specific use and maintained in good condition.
Eye and face protection	Safety Glasses.

<b>Skin protection</b>	Use Nitrile or neoprene gloves. Long-sleeved garments are recommended. Wear protection against chemical agents when contact with the material is foreseen. Use neoprene or nitrile boots if necessary to avoid contaminating the shoes. Wash contaminated clothes before reuse.
<b>Hand protection</b>	Not needed for normal use.
<b>Respiratory protection</b>	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 to enter narrow spaces, in poorly ventilated areas and to clean areas where large quantities of product have been spilled.
<b>Technical measures to prevent exposure</b>	Wash thoroughly after handling this product. Do not eat, drink or smoke when using this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Physical State</b>	Liquid
<b>Colour</b>	N.A.
<b>Odour</b>	N.A.
<b>Melting point/freezing point</b>	N.A.
<b>Pour point</b>	N.A.
<b>Boiling point or initial boiling point and boiling range</b>	N.A.
<b>Flammability</b>	N.A.
<b>Lower and upper explosion limit</b>	N.A.
<b>Flash point</b>	N.A.
<b>Auto-ignition temperature</b>	N.A.
<b>Decomposition temperature</b>	N.A.
<b>pH</b>	N.A.
<b>Kinematic viscosity</b>	N.A.
<b>Solubility</b>	N.A.
<b>Partition coefficient n-octanol/water (log value)</b>	N.A.
<b>Vapour pressure</b>	N.A.
<b>Density and/or relative density</b>	N.A.
<b>Relative vapour density</b>	N.A.
<b>Particle characteristics</b>	N.A.
<b>Dynamic viscosity</b>	N.A.
<b>Oxidizing properties</b>	N.A.
<b>Volatile Organic compounds - VOCs</b>	N.A.

### 9.2. Other information

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

<b>Reactivity</b>	Stable under normal conditions
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### 10.2. Chemical stability

<b>Chemical stability</b>	Data not Available.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	None.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Stable under normal conditions.
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### 10.5. Incompatible materials

<b>Incompatible materials</b>	None in particular.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	None.
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## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No. 1272/2008

<b>Acute toxicity</b>	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.
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### Toxicological information on main components of the mixture

Component	Toxicity	Information
BASE OIL-UNSPECIFIED LUBRICATING OILS	a) acute toxicity	LD <sub>50</sub> Oral Rat > 5000.00000 mg/kg LD <sub>50</sub> Skin Rabbit > 2000.00000 mg/kg LC <sub>50</sub> Inhalation Rat > 5000.00000 mg/m <sup>3</sup>

## 12. ECOLOGICAL INFORMATION

<b>12.1. Toxicity</b>	
<b>Acute (short-term) toxicity</b>	N.A.
<b>Fish</b>	N.A.
<b>Crustacea</b>	N.A.
<b>Algae/aquatic plants</b>	N.A.
<b>Other organisms</b>	N.A.
<b>Chronic (long-term) toxicity</b>	N.A.
<b>Fish</b>	N.A.
<b>Crustacea</b>	N.A.
<b>Algae/aquatic plants</b>	N.A.
<b>Other organisms</b>	N.A.

**List of components with eco-toxicological properties**

Component	Identification number	Ecotoxicological information
BASE OIL-UNSPECIFIED LUBRICATING OILS	CAS: 74869-22- 0 EINECS: 278-012-2	a) Aquatic acute toxicity : EL <sub>50</sub> Daphnia Magna > 10000.00000 mg/L 48h a) Aquatic acute toxicity : NOELR Algae > 100.00000 mg/L 72h a) Aquatic acute toxicity : LL <sub>50</sub> Fish > 100.00000 mg/L 96h b) Aquatic chronic toxicity : NOELR Daphnia Magna = 10.00000 mg/L - 21days b) Aquatic chronic toxicity : NOELR Fish = 10.00000 mg/L
BASE OIL - UNSPECIFIED - RESIDUAL OILS (PETROLEUM), SOLVENT DEWAXED	CAS: 64742-62- 7 EINECS: 265-166-0	a) Aquatic acute toxicity : EL <sub>50</sub> Daphnia Daphnia magna, 48hr > 10000.00000 mg/L 48h a) Aquatic acute toxicity : NOELR Algae Algae > 100.00000 mg/L 72h a) Aquatic acute toxicity : LL <sub>50</sub> Fish > 100.00000 mg/L 96h b) Aquatic chronic toxicity : NOELR Daphnia Daphnia magna, 21 days = 10.00000 mg/L b) Aquatic chronic toxicity : NOELR Fish = 10.00000 mg/L

**12.2. Persistence and degradability**

Component	Persistence/Degradability	Test	Duration	Value	Notes
BASE OIL-UNSPECIFIED LUBRICATING OILS	Non-readily biodegradable				
BASE OIL - UNSPECIFIED - RESIDUAL OILS (PETROLEUM), SOLVENT DEWAXED	Non-readily biodegradable				

**12.3. Bioaccumulative potential**

<b>Partition coefficient n-octanol /water (log Kow)</b>	N.A.
<b>Bioconcentration factor (BCF)</b>	N.A.

**12.4. Mobility in soil**

<b>Known or predicted distribution to environmental compartments</b>	N.A.
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**12.5. Results of PBT and vPvB assessment**

<b>Results of PBT and vPvB assessment</b>	No PBT Ingredients are present.
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**12.6. Endocrine disrupting properties**

<b>12.7. Other adverse effects</b>	
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<b>12.8. Additional information</b>	
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**13. DISPOSAL CONSIDERATIONS**

<b>13.1. Waste treatment methods</b>	
<b>Product/Packaging disposal</b>	Recover if possible. In so doing, comply with the local and national regulations currently in force.

**14. TRANSPORT INFORMATION**

<b>14.1. UN number or ID number</b>	
<b>UN number or ID number</b>	N.A.
<b>14.2. UN proper shipping name</b>	
<b>UN proper shipping name</b>	N.A.
<b>14.3. Transport hazard class(es)</b>	
<b>Transport hazard class(es)</b>	N.A.
<b>14.4. Packing group</b>	
<b>Packing group</b>	N.A.
<b>14.5. Environmental hazards</b>	
<b>Environmental hazards</b>	N.A.
<b>14.6. Special precautions for user</b>	
<b>Special precautions for user</b>	N.A.
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	
<b>Maritime transport in bulk according to IMO instruments</b>	N.A.

**15. REGULATORY INFORMATION**

<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
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<b>EU regulations</b>	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. 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
<b>Wassergefährdungsklasse (water hazard class)</b>	Class 1: slightly hazardous for water.
<b>Other regulations, restrictions and prohibition regulations</b>	Restrictions related to the product: None Restrictions related to the substances contained: 28
<b>15.2. Chemical Safety Assessment</b>	
<b>Chemical Safety Assessment</b>	No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.
<b>16. OTHER INFORMATION</b>	

#### Other information

Using the calculation method for the specific hazard classes provided for in Regulation (EC) No 1272/2008, the substance / mixture is not classified as hazardous. This document was prepared by a competent person who has received appropriate training. Main bibliographic sources: ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities; SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold. The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This MSDS cancels and replaces any preceding release. Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists  
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  
ATE: Acute Toxicity Estimate  
ATEmix: Acute toxicity Estimate (Mixtures)  
BCF: Biological Concentration Factor  
BEI: Biological Exposure Index  
BOD: Biochemical Oxygen Demand  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
CAV: Poison Center  
CE: European Community  
CLP: Classification, Labeling, Packaging.  
CMR: Carcinogenic, Mutagenic and Reprotoxic  
COD: Chemical Oxygen Demand  
COV: Volatile Organic Compound  
CSA: Chemical Safety Assessment  
CSR: Chemical Safety Report  
DMEL: Derived Minimal Effect Level  
DNEL: Derived No Effect Level.  
DPD: Dangerous Preparations Directive  
DSD: Dangerous Substances Directive  
EC50: Half Maximal Effective Concentration  
ECHA: European Chemicals Agency  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
ES: Exposure Scenario  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
IC50: half maximal inhibitory concentration  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.  
INCI: International Nomenclature of Cosmetic Ingredients.  
IRCCS: Scientific Institute for Research, Hospitalization and Health Care  
KAFFH: Keep away from heat  
KSt: Explosion coefficient.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
LDLo: Lethal Dose Low  
N.A.: Not Applicable  
N/A: Not Applicable  
N/D: Not defined/ Not available  
NA: Not available  
NIOSH: National Institute for Occupational Safety and Health  
NOAEL: No Observed Adverse Effect Level  
OSHA: Occupational Safety and Health Administration.  
PBT: Persistent, Bioaccumulative and Toxic  
PGK: Packaging Instruction  
PNEC: Predicted No Effect Concentration.  
PSG: Passengers  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
vPvB: Very Persistent, Very Bioaccumulative.  
WGK: German Water Hazard Class.  
Paragraphs modified from the previous revision:  
- 2. HAZARDS IDENTIFICATION  
- 3. COMPOSITION/INFORMATION ON INGREDIENTS  
- 7. HANDLING AND STORAGE  
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION  
- 9. PHYSICAL AND CHEMICAL PROPERTIES  
- 11. TOXICOLOGICAL INFORMATION  
- 12. ECOLOGICAL INFORMATION  
- 15. REGULATORY INFORMATION  
- 16. OTHER INFORMATION