Revised: 2020/11/26 (version 1.0)

# PETRONAS Urania NEXT 0W-20



#### **Description and Applications**

PETRONAS Urania NEXT 0W-20 is a Synthetic based formulation engine oil developed in co-engineering with IVECO and FPT to offer ultimate performance and protection for the engine. Its particular formulation is obtained as a result of thousands of hours of laboratory, bench and road tests.

PETRONAS Urania NEXT 0W-20 is recommended for Euro VI Cursor engines equipped with "fuel economy package".

Its low SAPS formulation offers outstanding protection for the particulate filter against combustion residues, also providing oil drain interval extension and ultimate Fuel Economy benefits, to reduce the TCO (Total Cost of Ownership).

#### **Approvals, Specifications and Recommendations**

#### **Approvals**

IVECO 18-1804 TLV LS C.T.R. Nr I139.D14

Note: Always consult your owner's manual to check recommended viscosity grade and specifications for your specific vehicle

### **Typical Physical Data**

Parameters	Method	Unit	Typical Value
Appearance			Bright & Clear
Density @ 15°C	ASTM D 4052	g/cm³	0.848
Kinematic Viscosity @ 100°C	ASTM D 445	mm²/s (cSt)	9
Viscosity Index	ASTM D 2270		183
CCS Viscosity @ -35°C	ASTM D 5293	mPa.s (cP)	<6200
Pour Point	ASTM D 97	°C	<-40
Flash Point COC	ASTM D 92	°C	>200
TBN	ASTM D 2896	mg KOH/g	13

All technical data is provided for reference only. These characteristics are typical of current production. Whilst future production will conform to PLI's specification, variations in these characteristics may occur.

#### Health, Safety and Environment

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil or water.

For further detail regarding storage, safe handling, and disposal of product, please refers to product SDS or contact us at: <a href="https://www.pli-petronas.com">www.pli-petronas.com</a>

#### Important Note

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Safety Data Sheets are available for all our products and should be only be consulted for appropriate information regarding storage, safe handling and disposal of the product. No responsibility shall be taken by either PLISB or its subsidiaries and related holding corporation for any loss or injury or any direct, indirect, special, exemplary, consequential damages or any damages whatsoever, whether in action of contract, negligence or other tortuous action, in connection or resulting from abnormal use of the materials and/or information, from any failure to adhere to recommendations, or from hazards inherent in the nature of the materials and/or information. All products, services and information supplied are under our standard conditions of sale. Please consult with any of our local representative in the event you require any further information.

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# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. PRODUCT IDENTIFIER

MIXTURE IDENTIFICATION:

Trade name: URANIA NEXT 0W-20

Trade code: 71800 Registration Number N/A

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

RECOMMENDED USE: Engine oil.

USES ADVISED AGAINST: This product should not be used for other purposes than those specified

without the advice of an expert.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

COMPANY: PETRONAS LUBRICANTS ITALY S.P.A.

Via Santena 1

10029 Villastellone (Torino)

Tel: +39.01196131 Fax: +39.0119613313

COMPETENT PERSON FOR SAFETY DATA OF PRODUCT:

Information on the legislation compliance info-regulation.eu@pli-petronas.com

1.4. EMERGENCY TELEPHONE NUMBER

Emergency Answer Service (24h/7d): +44 1235 239670

### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Regulation (EC) n. 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008

(CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. LABEL ELEMENTS

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Special Provisions:

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EUH208 Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.

EUH208 Contains Molibdenum polysulphide long chain alkyl dithiocarbamate complex. May

produce an allergic reaction.

EUH210 Safety data sheet available on request.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

### 2.3. OTHER HAZARDS

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq$  0.1%.

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1. SUBSTANCES

N.A.

#### 3.2. MIXTURES

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

QTY	NAME	IDENT. NUMB.	CLASSIFICATION	REGISTRATION NUMBER
70.0- <90.0 %	Poly-a-olefins, viscosity 40°C <= 20.5 cSt	CAS:68649- 12-7, 157707-86-3, 68037-01-4 EC:614-695- 9, 500-393- 3, 500-183-1	Asp. Tox. 1, H304	01-2119527646- 33-XXXX; 01- 2119493949-12- XXXX; 01- 2119486452-34- XXXX
2.5-<3.0 %	Bis(nonylphenyl)amine	CAS:36878- 20-3 EC:253-249- 4	Aquatic Chronic 4, H413	01-2119488911- 28-XXXX
2.0-<2.5 %	Lubricating oils, petroleum, C20-50-hydrotreated neutral oil-based	CAS:72623- 87-1 EC:276-738- 4	Asp. Tox. 1, H304, DECLL(*)	01-2119474889- 13-XXXX
2.0-<2.5 %	Distillates, petroleum, hydrotreated heavy paraffinic (649-467-00-8)	CAS:64742- 54-7 EC:265-157- 1	Asp. Tox. 1, H304, DECLL(*)	01-2119484627- 25-XXXX

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1.0-<1.5 %	Paraffin oils, petroleum, catalytic dewaxed heavy	CAS:64742- 70-7 EC:265-174- 4	Asp. Tox. 1, H304, DECLL(*)	01-2119487080- 42-XXXX
1.0-<1.5 %	Distillates (petroleum), solvent-dewaxed heavy paraffinic	CAS:64742- 65-0 EC:265-169- 7	Asp. Tox. 1, H304, DECLL(*)	01-2119471299- 27-XXXX
1.0-<1.5 %	reaction mass of isomers of C7-9-alkyl 3-(3,5-di-trans- butyl-4- hydroxyphenyl)propioate		Aquatic Chronic 4, H413	01-0000015551- 76-XXXX 01- 2119878226-29- XXXX; 01- 2119954896-17- XXXX
1.0-<1.5 %	Distillates (petroleum), solvent-dewaxed light paraffinic	CAS:64742- 56-9 EC:265-159- 2	Asp. Tox. 1, H304, DECLL(*)	01-2119480132- 48-XXXX
0.5- <0.95 %	C14-16-18 Alkyl phenol	CAS: 1190625-94- 5 EC:931-468- 2	Skin Sens. 1B, H317; STOT RE 2, H373	01-2119498288- 19-XXXX
0.1- <0.25 %	Molibdenum polysulphide long chain alkyl dithiocarbamate complex	CAS: Confidential EC:457-320- 2	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	01-0000019337- 66-XXXX
(*)DECLL			everely refined and contain less than lassified as carcinogen according to	
	DMSO extract as measured by IP 3 asphaltene free petroleum fraction	346 "Determinations — Dimethyl sulp	can be shown that the substance c n of polycyclic aromatics in unused l hoxide extraction refractive index m complex oil-derived substances in P	ubricating base oils and nethod", Institute of

H-phrases and list of abbreviations: see heading 16.

## **SECTION 4: FIRST AID MEASURES**

#### 4.1. DESCRIPTION OF FIRST AID MEASURES

IN CASE OF SKIN CONTACT:

Remove contaminated clothes and shoes and rinse thoroughly with plenty of water and soap.

IN CASE OF EYES CONTACT:

Rinse thoroughly with plenty of water for at least 10 minutes keeping eyelids open. Remove contact lenses if this can be done easily. Obtain medical attention in case of development and persistence of pain and redness. In case of contact with hot product, rinse thoroughly with plenty of water to dissipate heat. Obtain immediate medical attention to assess eye conditions and the correct treatment to be practiced.

IN CASE OF INGESTION:

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Do not induce vomiting to avoid aspiration into the respiratory tracts. Wash out thoroughly the mouth with water. Obtain immediate medical attention.

IN CASE OF INHALATION:

Expose affected person to fresh air and obtain medical attention if necessary.

#### 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Refer to section 11.

#### 4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Refer to section 4.1.

#### **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1. EXTINGUISHING MEDIA

This product has no special fire risk. In case of fire use foam, carbon dioxide, dry chemical powder and water mist.

Cool down with water the containers don't get involved in fire to avoid their possible explosion.

Avoid high pressure water jet. Use water jet only to cool down surfaces exposed to fire.

SUITABLE EXTINGUISHING MEDIA:

Water.

Carbon dioxide (CO2).

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

None in particular.

### 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Don't breathe combustion fumes: fire can form harmful compounds.

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, compounds of sulphur, phosphorus, nitrogen and products of incomplete combustion.

#### 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.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Avoid ingestion of product. Avoid contact with skin and eyes by wearing appropriate protective clothing.

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Avoid to breathe fumes and aereosols.

Surfaces on which the product has been spilled may 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 gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

#### 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Avoid flame and/or spark near leak and produced waste. Do not smoke. In case of large spills dike, absorb and shovel up into suitable containers for disposal. Contain small spills with absorbent material. Put dirty material in suitable container. Dispose of dirty material in accordance with local or national regulations.

#### 6.4. REFERENCE TO OTHER SECTIONS

See also section 8 and 13

#### **SECTION 7: HANDLING AND STORAGE**

#### 7.1. PRECAUTIONS FOR SAFE HANDLING

Avoid ingestion. Avoid frequent and prolonged skin contact and contact with eyes. Provide adequate ventilation to avoid mist or aereosol. Don't smoke or use spare flames; avoid contact with spark or other sources of ignition. Don't work near open container to avoid high concentration of vapours. Don't eat or drink during use.

#### 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store under cover in the original container securely closed away from heat and sources of ignition. Do not store in the open air. Assure a correct ventilation of premises and the control of possible leak. Keep out of flame or spark and avoid the accumulation of electrostatic charges. Keep out of reach of children and away from food and drink.

Storage class (TRGS 510, Germany): 10

### 7.3. SPECIFIC END USE(S)

Refer to the uses listed in Section 1.2.

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1. CONTROL PARAMETERS

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OEL: oil mists - TLV/TWA (8 h): 5 mg/m3 - TLV/STEL: 10 mg/m3

Community Occupational Exposure Limits (OEL)

ACGIH 10.000

**SHORT** OEL LONG LONG **SHORT NOTES TYPE TERM TERM** TERM **TERM** MG/M3 PPM MG/M3 PPM

Molibdenum polysulphide long chain alkyl dithiocarbamate

complex

CAS: Confidential

Predicted No Effect Concentration (PNEC) values

PNEC EXPOSURE EXPOSURE REMARK LIMIT ROUTE **FREQUENCY** 

Bis(nonylphenyl) amine

CAS: 36878-20-3

0.1 Fresh Water mg/l

0.01 Soil

mg/l (agricultural)

13200 Air

0

mg/kg

13200 Fresh Water

mg/kg

26300 Marine water sediments

mg/kg

Derived No Effect Level (DNEL) values

WOR WOR CONS EXPOSU EXPOSURE **REMARK** KER KER UMER RE **FREQUENCY** 

**INDU PROF ROUTE** 

STRY ESSI **ONAL** 

Bis 0.62 Human Long Term, (nonylphenyl) mg/kg Dermal systemic effects amine

CAS: 36878-20-

3

4.37 Human Long Term, Inhalatio systemic effects mg/m 3 n

0.31 Human Long Term, mg/kg Dermal systemic effects

1.09 Human Long Term, mg/m Inhalatio systemic effects

n

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0.31 Human Long Term, mg/kg Oral systemic effects

reaction mass of 0.22 isomers of C7- mg/kg 9-alkyl 3-(3,5-di-trans-butyl-4-

hydroxyphenyl) propioate CAS: 125643-

61-0

Human Long Term, Dermal systemic effects

#### 8.2. EXPOSURE CONTROLS

#### TECHNICAL PRECAUTIONS:

Avoid production and diffusion of mist and aerosol with utilization of localized ventilation/aspiration or other required precautions. Adopt all required precaution to avoid product immission in environment (e.g., blasting systems, catch basins, ...).

#### EYE PROTECTION:

Chemical goggles and face shield in case of oil splashes.

#### PROTECTION FOR SKIN:

Wear suitable protective clothing (for further information, refer to CEN-EN 14605); change it immediately in case of large contamination and wash it before subsequent use.

Practice reasonable personal cleanliness.

#### PROTECTION FOR HANDS:

Wear suitable gloves (i.e. neoprene, nitrile). Gloves should be changed when they show wear. The kind of gloves and the term of use must be decided from employer with regard to processing and to allow for DPI legislation and glove producer's indications. Wear gloves only with clean hands.

#### RESPIRATORY PROTECTION:

None required under normal conditions of use. Use approved full face respirator with organic vapour filter cartridge if the recommended exposure limits are exceeded.

#### **ENVIRONMENTAL EXPOSURE CONTROLS:**

Refer to technical precautions and also to sections 6.2, 6.3, 7.2, 12 and 13.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE LIQUID

APPEARANCE AND COLOUR: VISCOUS AMBER

ODOUR: NOT RELEVANT

ODOUR THRESHOLD: NOT RELEVANT

PH: N.A.

MELTING POINT / FREEZING POINT: N.A.

INITIAL BOILING POINT AND BOILING RANGE: >250 °C (482 °F) (ASTM D2887)

FLASH POINT: 208 °C (406 °F) ( ASTM D93 )

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: N.A.

VAPOUR DENSITY: N.A.

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VAPOUR PRESSURE: N.A.

DENSITY 0.85 G/CM3 ( ASTM D4052 )

SOLUBILITY IN WATER: IMMISCIBLE

SOLUBILITY IN OIL: N.A.

PARTITION COEFFICIENT (N-OCTANOL/WATER): N.A.

AUTO-IGNITION TEMPERATURE: N.A.

DECOMPOSITION TEMPERATURE: N.A.

KINEMATIC VISCOSITY AT 100°C N.A.

KINEMATIC VISCOSITY AT 40°C 45.16 CST

EXPLOSIVE PROPERTIES: N.A. OXIDIZING PROPERTIES: N.A.

FLAMMABILITY: N.A.

VOLATILE ORGANIC COMPOUNDS - VOCS = N.A.

PARTICLE CHARACTERISTICS: PARTICLE SIZE: N.A.

#### 9.2. OTHER INFORMATION

FREEZING POINT N.A.

POUR POINT N.A.

DROPPING POINT N.A.

SUBSTANCE GROUPS RELEVANT PROPERTIES

MISCIBILITY: N.A. CONDUCTIVITY: N.A.

NO OTHER RELEVANT INFORMATION

### **SECTION 10: STABILITY AND REACTIVITY**

### 10.1. REACTIVITY

Read carefully all information provided in other sections of heading 10.

#### 10.2. CHEMICAL STABILITY

The product is stable under normal conditions of use.

### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Not expected under normal conditions of use.

#### 10.4. CONDITIONS TO AVOID

This product must be kept far from heat sources. In any case, avoid exposing product to temperatures above the flash point.

#### 10.5. INCOMPATIBLE MATERIALS

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Strong oxidizing agents, hard acids and bases.

#### 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of carbon, compounds of sulphur, phosphorus, nitrogen and hydrogen sulfide.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

### 11.1. INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

#### **ACUTE TOXICITY:**

This product is not classified in this hazard class.

While to not cause harm if accidentally swallowed in small doses, ingestion of large quantities may cause gastro-intestinal effects.

#### SKIN CORROSION OR IRRITATION:

This product is not classified in this hazard class, but prolonged or repeated skin contact sometimes may cause irritations and dermatitis.

#### SERIOUS EYE DAMAGE OR EYE IRRITATION:

This product is not classified in this hazard class, but direct contact may cause slight irritations.

#### RESPIRATORY SENSITIZATION:

This product is not classified in this hazard class.

#### SKIN SENSITIZATION:

The product contains sensitizing substances, but is not classified in this way. Product is not an irritant, but prolonged or repeated contacts may cause irritations or dermatitis.

In a sensitized individual the allergic dermatitis may not appear until after several days or weeks of frequent and prolonged contact. Therefore, even though the skin irritation potential is slight, skin contact should be avoided.

Once sensitization has occurred, exposure of the skin to very small quantities of the material may cause erythema and edema.

#### GERM CELL MUTAGENICITY:

Based on available data, the classification criteria are not met.

#### **CARCINOGENICITY:**

Based on available data, the classification criteria are not met.

### REPRODUCTIVE TOXICITY:

Based on available data, the classification criteria are not met.

# SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE:

This product is not classified in this hazard class, but inhalation of mists and vapours generated at elevated temperatures sometimes may cause respiratory irritation.

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SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE:

This product is not classified in this hazard class.

**ASPIRATION HAZARD:** 

This product is not classified in this hazard class.

Toxicological Information of the Preparation

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.

Toxicological information on main components of the mixture:

Poly-a-olefins, viscosity 40° C <=20.5 cSt a) acute toxicity

LD50 Oral Rat > 5000 mg/kg

Distillates, petroleum, hydrotreated heavy paraffinic (649-467-00-8) a) acute toxicity

LD50 Oral Rat > 5000 mg/kg

LD50 Skin Rabbit > 2000 mg/kg LC50 Inhalation Rat > 5.53 mg/l

b) skin corrosion/irritation

Skin Irritant Rabbit - Based on available data, the classification criteria are not

met

c) serious eye damage/irritation

Eye Irritant Rabbit - Based on available data, the classification criteria are not

met

d) respiratory or skin sensitisation

Skin Sensitization Rabbit - No data

available for the product

If not differently specified, the information required in Regulation (EU)2020/878 listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure

Toxicological kinetics, metabolism and distribution information

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- i) STOT-repeated exposure
- j) aspiration hazard

#### 11.2 INFORMATION ON OTHER HAZARDS

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

#### **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1. TOXICITY

Eco-Toxicological Information:

This product is not classified dangerous for the environment.

List of Eco-Toxicological properties of the components

COMPONENT	IDENT. NUMB.	ECOTOX DATA
Distillates, petroleum, hydrotreated heavy paraffinic (649-467-00-8)	CAS: 64742- 54-7 - EINECS: 265- 157-1	a) Aquatic acute toxicity: LC50 Fish Pimephales promelas > 100 mg/L 96h

b) Aquatic chronic toxicity: NOELR Oncorhynchus mykiss >= 1000 mg/L

b) Aquatic chronic toxicity: NOEC Fish > 1 mg/L

b) Aquatic chronic toxicity: NOEC Daphnia > 1 mg/L - water

reaction mass of isomers of CAS: a) Aquatic acute toxicity: LC50 Fish Danio Rerio > 74 mg/L

C7-9-alkyl 3-(3,5-di-trans- 125643-61-0 96h

butvl-4-- EINECS: hydroxyphenyl)propioate 406-040-9 -INDEX: 607-

530-00-7

No endocrine disruptor substances present in concentration >= 0.1%

#### 12.2. PERSISTENCE AND DEGRADABILITY

Data on biodegradability of product are not available.

#### 12.3. BIOACCUMULATIVE POTENTIAL

Not available.

#### 12.4. MOBILITY IN SOIL

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As the dispersion in the environment may result in contamination of environmental matrix (soil, subsoil, surface water and groundwater), do not release in the environment.

#### 12.5. RESULTS OF PBT AND VPVB ASSESSMENT

Not available.

#### 12.6. ENDOCRINE DISRUPTING PROPERTIES

No effect known.

#### 12.7 OTHER ADVERSE EFFECTS

No effect known.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1. WASTE TREATMENT METHODS

Prevent contamination of soil, drains and surface waters. Do not discharge in sewers, tunnels or water courses. Dispose in accordance with local or national regulations via authorised person/licensed waste disposal contractor.

The used product has to be considered a special waste to be classified in accordance to Directive 2008/98/EC on waste and related legislation.

Recover if possible. In so doing, comply with the local and national regulations currently in force.

#### **SECTION 14: TRANSPORT INFORMATION**

#### 14.1. UN NUMBER OR ID NUMBER

N/A

#### 14.2. UN PROPER SHIPPING NAME

ADR-Shipping Name: N/A IATA-Technical name: N/A IMDG-Technical name: N/A

### 14.3. TRANSPORT HAZARD CLASS(ES)

ADR-Class: N/A IATA-Class: N/A IMDG-Class: N/A

### 14.4. PACKING GROUP

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ADR-Packing Group: N/A IATA-Packing group: N/A IMDG-Packing group: N/A

#### 14.5. ENVIRONMENTAL HAZARDS

Toxic Ingredients Qty: 0.00

High Toxicity Ingredients Qty: 0.00

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: N/A

#### 14.6. SPECIAL PRECAUTIONS FOR USER

### Road and Rail (ADR-RID):

ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code): N/A

#### Air (IATA):

IATA-Passenger Aircraft: N/A IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subsidiary hazards: N/A

IATA-Erg: N/A

IATA-Special Provisioning: N/A

#### Sea (IMDG):

IMDG-Stowage Code: N/A
IMDG-Stowage Note: N/A
IMDG-Subsidiary hazards: N/A
IMDG-Special Provisioning: N/A

### 14.7. MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

N.A.

#### **SECTION 15: REGULATORY INFORMATION**

#### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT IN QUESTION

Regulation (EC) No 1272/2008, with all National and European related legislations - on classification, labelling and packaging of substances and mixtures - and following adjustments to technical and scientific progress.

Regulation (EC) No 790/2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

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Regulation (EC) No 1907/2006, with all National and European related legislations - concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Regulation (EU) No 878/2020 amending Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Directives 89/391/EC, 89/654/EC, 89/655/EC, 89/656/EC, 90/269/EC, 90/270/EC, 90/394/EC, 90/679/EC and all following updates, togeher with its national implementation about improvement of worker safety and health.

Directives 98/24/EC and all following updates, together with its national implementation about protection of worker safety and health against chemical agent risks.

Directive 1991/156/EC and all following updates, together with national waste legislation

EC directives and national environment protection legislation (air, water and soil)

Regulation 648/2004/EC on detergents

Directive 2012/18/UE, together with its national realization, on the control of major-accident hazards involving dangerous substances.

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. 2015/1221 (ATP 7 CLP)

REGULATION (EU) N. 2016/918 (ATP 8 CLP)

REGULATION (EU) N. 2016/1179 (ATP 9 CLP)

REGULATION (EU) N. 2017/776 (ATP 10 CLP)

REGULATION (EU) N. 2018/669 (ATP 11 CLP)

REGULATION (EU) N. 2021/849 (ATP 17 CLP)

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: 40

Restrictions related to the substances contained: NONE

PROVISIONS RELATED TO DIRECTIVE EU 2012/18 (SEVESO III):

N.A.

REGULATION (EU) NO 649/2012 (PIC REGULATION)

No substances listed

GERMAN WATER HAZARD CLASS.

Class 1: slightly hazardous for water.

**SVHC SUBSTANCES:** 

No data available

#### 15.2. CHEMICAL SAFETY ASSESSMENT

No Chemical Safety Assessment has been carried out for the mixture.

### **SECTION 16: OTHER INFORMATION**

Revision Date: 29/12/2022

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Sheet complies with the criteria of Regulation (EU) No. 878/2020 as well as with Regulation (EC) No. 1272/2008 and following adjustments.

This document was prepared by a competent person who has received appropriate training.

This product must not be used in applications other than recommended without first seeking the advice of the Technical Department.

This SDS cancels and replaces any preceding release.

This product must be stored, handled and used according to correct industrial hygienic practices and in compliance with laws in force.

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be considered as any guarantee of specific properties.

Caption about heading 3, H-statements:

CODE	DESCRIPTION	
H304	May be fatal if swallowed and ente	ers airways.
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction	n.
H373	May cause damage to organs thro	ugh prolonged or repeated exposure.
H412	Harmful to aquatic life with long la	sting effects.
H413	May cause long lasting harmful eff	ects to aquatic life.
CODE	HAZARD CLASS AND HAZARD CATEGORY	DESCRIPTION
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/C3 4.1/C4	Aquatic Chronic 3 Aquatic Chronic 4	Chronic (long term) aquatic hazard, category 3 Chronic (long term) aquatic hazard, category 4

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.

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PETRONAS

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

KAFH: 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: Leathal 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.

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WGK: German Water Hazard Class.

\* Sheet model entirely changed in compliance to regulatory update.

# CHEMPOIL

Продукты > Моторные масла для грузового и автобусного парка > Моторные масла класса SHPD > CHEMPIOIL CH-20 Truck SHPD 10W-30



# 9120 CHEMPIOIL CH-20 TRUCK SHPD 10W-30

Всесезонное синтетическое моторное масло для высоконагруженных и высокооборотистых дизельных двигателей с турбоннаддувом и без, работающих в тяжелых условиях. Масло прошло дорожные и лабораторные испытания в центрах VOLVO, MACK и RENAULT и имеет их письменные одобрения.

#### Свойства продукта:

- Инновационный пакет присадок в сочетании с синтетической основой высочайшего качества, обладающей оптимальной вязкостью в необходимом диапазоне температур, обеспечивают отличные антифрикционные, противоизносные и противозадирные свойства, что значительно продлевает ресурс техники на всех режимах работы в достаточно широком диапазоне температур окружающей среды и обеспечивает существенную экономию топлива;
- Фенольные и аминные антиоксиданты в сочетании с синтетической основой придают маслу повышенную термоокислительную стабильность, что в сочетании с превосходными моюще-диспергирующими свойствами и низкой зольностью эффективно снижает нагаро- и лакообразование, предотвращает образование отложений всех видов и поддерживает в идеальной чистоте детали двигателя, на протяжении всего интервала между заменами;
- Уникальная синтетическая рецептура обеспечивает маслу повышенную стойкость к старению, а за счет пониженной испаряемости и повышенной температуры вспышки снижает расход масла «на угар», что позволяет применять его в двигателях с увеличенным интервалом замены масла (Long Life) и обычных;

- За счёт синтетической основы оптимальной вязкости обладает отличными низкотемпературными свойствами, в том числе низкой температурой застывания, что обеспечивает превосходную прокачиваемость масла и проворачиваемость узлов двигателя при низких температурах, лёгкий «холодный пуск» (до -30 <sup>о</sup>С) и снижение пускового износа;
- Совместимо со всеми системами нейтрализации отработавших газов: DPF, TWC, EGR и SCR за счет применения технологии Low SAPS:
- Эффективно защищает детали двигателя от всех видов коррозии;
- Имеет пониженное пенообразование;
- Эффективно борется с увеличением усилия сдвига в процессе эксплуатации, вызванного ростом вязкости за счёт дисперсии сажи;
- Подходит для двигателей, работающих на сжиженном природном (LNG) и нефтяном (LPG) газе.

Предназначено для всех видов высоконагруженных дизельных двигателей шоссейной (магистральные тягачи, автобусы и т.д.), внедорожной (строительная, горнодобывающая, сельскохозяйственная) и специальной техники европейских, американских и азиатских производителей, соответствующих требованиям Euro I – V где необходим уровень эксплуатационных свойств СК-4 или ниже.

Может быть использовано в бензиновых двигателях, где необходим уровень эксплуатационных свойств API SN или ниже.

# Продукт имеет допуски / соответствует спецификациям / продуктам:

#### **Specifications:**

SAE 10W-30

API CJ-4/CK-4

ACEA E11

**CATERPILLAR ECF-3** 

**CUMMINS CES 20081** 

**DETROIT DIESEL DDC 93K218** 

MACK EO-O Premium Plus

MACK EO-O Premium Plus -07

MAN M 3677

MB 228.31

MTU Type 3.1

**RENAULT Truck RLD-3** 

VOLVO VDS-4

ACEA E8

JASO DH-2

MB 228.51

MB 235.28

SCANIA Low Ash

MAN M 3477

CATERPILLAR ECF-2

**VOITH Retarder Class B** 

# Упаковка (арт.нр.)

208L (CH9120-DR) 20L (CH9120-20)



Printing date 25.05.2020 Version number 1 Revision: 25.05.2020

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- Trade name: CHEMPIOIL 9120 CH-20 SHPD 10W-30
- 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Lubricant
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

**UAB "SCT Lubricants"** 

Silutes Pl. 119

LIT-95112 KLAIPEDA

LITHUANIA

renata@sct.lt

- · Further information obtainable from: Product safety department.
- 1.4 Emergency telephone number: Giftinformationszentrum-Nord +49-551-19240

#### **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Precautionary statements

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Additional information:

EUH208 Contains ++O,O,O-triphenyl phosphorothioate. May produce an allergic reaction.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.

# **SECTION 3: Composition/information on ingredients**

- · 3.2 Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.
- · Dangerous components: Void

(Contd. on page 2)



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Trade name: CHEMPIOIL 9120 CH-20 SHPD 10W-30

		(Contd. of page 1)
· Not dangerous sub	stances	
EINECS: 218-679-9	Zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis(phosphorodithioate)  Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	0.54–0.9%
EINECS: 253-249-4	Reaction products of Benzeneamine, N-phenyl-with nonene (branched) Aquatic Chronic 4, H413	0.18–0.9%
EINECS: 283-392-8	Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso- Pr) esters, zinc salts Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	0.18–0.45%
EINECS: 209-909-9	++O,O,O-triphenyl phosphorothioate Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Sens. 1, H317	0.018–0.18%
	Phenol, dodecyl-,branched Repr. 2, H361f; Skin Corr. 1, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
	1H-1,2,4-Triazole-1-methanamine, N,N-bis (2-ethylhexyl)-Repr. 2, H361fd	<0.1%

# **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- · 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

· Additional information: For the wording of the listed hazard phrases refer to section 16.

No further relevant information available.

### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents:

CO2. Do not use water.

Use fire extinguishing methods suitable to surrounding conditions.

Foam

Fire-extinguishing powder

Sand

- · For safety reasons unsuitable extinguishing agents: Water
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

(Contd. on page 3)



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(Contd. of page 2)

· Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

#### **SECTION 6: Accidental release measures**

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

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

Wear protective clothing.

- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

- · Respiratory protection: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 4)



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(Contd. of page 3)

#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Goggles recommended during refilling

SECTION	I 9. Physica	I and chemical	nronartias
<b>SECTION</b>	ı J. FIIVSICA	i allu Clitillicai	DIODELLES

• 9.1 Information on basic physical and • General Information	· 9.1 Information on basic physical and chemical properties			
· Appearance:				
Form:	Liquid			
Colour:	Yellow-brown			
· Odour:	Product specific			
· Odour threshold:	Not determined.			
· pH-value:	Not determined.			
· Change in condition				
Melting point/freezing point:	-40 °C			
Initial boiling point and boiling range	e: >350 °C			
· Flash point:	>226 °C			
· Flammability (solid, gas):	Not applicable.			
· Decomposition temperature:	Not determined.			
· Auto-ignition temperature:	Product is not selfigniting.			
· Explosive properties:	Product does not present an explosion hazard.			
· Explosion limits:				
Lower:	Not determined.			
Upper:	Not determined.			
· Vapour pressure:	Not determined.			
Density at 20 °C:	0.87 g/cm³			
Relative density	Not determined.			
· Vapour density	Not determined.			
· Evaporation rate	Not determined.			
· Solubility in / Miscibility with				
water:	Not miscible or difficult to mix.			
· Partition coefficient: n-octanol/water:	Not determined.			
· Viscosity:				
Dynamic:	Not determined.			
Kinematic at 40 °C:	>65 mm²/s			

(Contd. on page 5)



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(Contd. of page 4)

· Solvent content:

**VOC (EC)** 0.00 %

• 9.2 Other information No further relevant information available.

# **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:

Carbon monoxide

Aldehyde

Poisonous gases/vapours

Carbon dioxide

## **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

(Contd. on page 6)



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Trade name: CHEMPIOIL 9120 CH-20 SHPD 10W-30

(Contd. of page 5)

- · 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation Smaller quantities can be disposed of with household waste.
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport informati	on
· 14.1 UN-Number · ADR, IMDG, IATA	not regulated
· 14.2 UN proper shipping name · ADR, IMDG, IATA	not regulated
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	not regulated
· 14.4 Packing group · ADR, IMDG, IATA	not regulated
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Ann	ex II of

### **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Not applicable.

not regulated

· Directive 2012/18/EU

Marpol and the IBC Code

· UN "Model Regulation":

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

(Contd. on page 7)



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Trade name: CHEMPIOIL 9120 CH-20 SHPD 10W-30

(Contd. of page 6)

### · Relevant phrases

- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H361f Suspected of damaging fertility.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.
- · Department issuing SDS: Product safety department.
- · Contact: Mrs. Zubaite

#### · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

\* Data compared to the previous version altered.

# CHEMPOIL

Продукты > Моторные масла для грузового и автобусного парка > Моторные масла класса UHPD > CHEMPIOIL CH-17 Truck 5W-30 UHPD Blue



# 9117 CHEMPIOIL CH-17 TRUCK 5W-30 UHPD BLUE

Энергосберегающее синтетическое (на основе РАО) моторное масло для высоконагруженных и высокооборотистых дизельных двигателей самого последнего поколения с турбонаддувом и без, работающих в тяжелых условиях и использующих низкосернистое топливо. Разработано специально, чтобы обеспечить защиту техники и получить от неё максимальную отдачу вне зависимости от условий её эксплуатации.

#### Свойства продукта:

- Уникальная маловязкая синтетическая PAO-содержащая основа высочайшего качества, обладающая идеальной вязкостью в необходимом диапазоне температур в сочетании с инновационным пакетом присадок, обеспечивает непревзойдённые антифрикционные, противоизносные и противозадирные свойства, что значительно продлевает ресурс техники на всех, даже самых экстремальных, режимах работы в достаточно широком диапазоне температур окружающей среды и обеспечивает значительную экономию топлива;
- Синтетическая основа и специальные ТВN-бустеры придают маслу повышенную термоокислительную стабильность, превосходные моюще-диспергирующие свойства (ТВN>10) и одновременно низкую зольность, что эффективно снижает нагаро- и лакообразование, предотвращает образование отложений всех видов и поддерживает в идеальной чистоте детали двигателя, особенно цилиндро-поршневой группы, на протяжении всего интервала между заменами;
- Уникальная рецептура обеспечивает маслу стойкость к старению, а за счет пониженной испаряемости и

повышенной температуры вспышки снижает расход масла «на угар», что позволяет применять его в двигателях с увеличенным интервалом замены масла (Long Life до 90 000 км) и обычных;

- За счёт РАО-содержащей основы пониженной вязкости обладает превосходными низкотемпературными свойствами, в том числе низкой температурой застывания, что обеспечивает превосходную прокачиваемость масла и проворачиваемость узлов двигателя при низких температурах, лёгкий «холодный пуск» (до -35 ⁰С) и снижение пускового износа;
- Совместимо со всеми системами нейтрализации отработавших газов, DPF, TWC, EGR и SCR за счет применения технологии Low SAPS;
- Эффективно защищает детали двигателя от всех видов коррозии;
- Эффективно борется с увеличением усилия сдвига в процессе эксплуатации, вызванного ростом вязкости за счёт дисперсии сажи;
- Подходит для двигателей, работающих на сжиженном природном (LNG) и нефтяном (LPG) газе.

Предназначено для всех видов высоконагруженных дизельных двигателей шоссейной (магистральные тягачи, автобусы и т.д.), внедорожной (строительная, горнодобывающая, сельскохозяйственная) и специальной техники европейских, американских и азиатских производителей, соответствующих требованиям Euro I – V и VI где необходим уровень эксплуатационных свойств ACEA E8/E11.

### Продукт имеет допуски / соответствует спецификациям / продуктам:

### **Specifications:**

SAE 5W-30

ACEA E11

ACEA E8

MAN M 3677

MB 228.51

VOLVO VDS 4.5

**CUMMINS CES 20086** 

API CK-4

IVECO (ACEA E6-2016)

DAF (ACEA E6-2016)

**DETROIT DIESEL DDC93K222** 

**RENAULT RLD-3** 

MACK EOS-4.5

CATERPILLAR ECF-3

SCANIA LDF-4

#### Упаковка (арт.нр.)

60L (CH9117-60)

20L (CH9117-20)

208L (CH9117-DR)

1000L (CH9117-IBC)



Printing date 25.05.2020 Version number 1 Revision: 25.05.2020

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Trade name: CHEMPIOIL 9117 CH-17 Truck UHPD 5W-30 Blue
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

No further relevant information available.

- · Application of the substance / the mixture Lubricant
- · 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: UAB "SCT Lubricants" Silutes Pl. 119 LIT-95112 KLAIPEDA

LITHUANIA renata@sct.lt

- · Further information obtainable from: Product safety department.
- 1.4 Emergency telephone number: Giftinformationszentrum-Nord +49-551-19240

#### **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable. · **vPvB:** Not applicable.

# **SECTION 3: Composition/information on ingredients**

- · 3.2 Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:			
Calcium long-chain alky	Calcium long-chain alkylphenate sulfide Aquatic Chronic 4, H413		
· Not dangerous substa	nces		
CAS: 68649-42-3 EINECS: 272-028-3	Ditiophoshor acid O,O-diC1-14-alkile	ester. zinc salt	0.16–0.76%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319		
CAS: 722503-69-7	Calcium long chain alkaryl sulfonate		0.16–0.76%
EC number: 682-812-0	Skin Irrit. 2, H315; Aquatic Chronic 4, H413		
CAS: 104-43-8	p-dodecilphenol		<0.1%
EINECS: 203-202-9	Repr. 2, H361f; Aquatic Acute 1, H40 H410; Skin Irrit. 2, H315	00; Aquatic Chronic 1,	
CAS: 68551-12-2	alcohols, C12-16, ethoxylated 0.016		0.016-0.078%
			(Contd. on page 2)



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Trade name: CHEMPIOIL 9117 CH-17 Truck UHPD 5W-30 Blue

(Contd. of page 1)

· Additional information: For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- 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

No further relevant information available.

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents:

CO2. Do not use water.

Use fire extinguishing methods suitable to surrounding conditions.

Foam

Fire-extinguishing powder

Sand

- · For safety reasons unsuitable extinguishing agents: Water
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

Wear protective clothing.

- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling No special measures required.

(Contd. on page 3)



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(Contd. of page 2)

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

- · Respiratory protection: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Goggles recommended during refilling

### **SECTION 9: Physical and chemical properties**

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form:
Colour:
Yellow-brown
Odour:
Product specific
Odour threshold:
Not determined.

· **pH-value:** Not determined.

(Contd. on page 4)



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	(Contd. of page
Change in condition  Melting point/freezing point:  Initial boiling point and boiling range	-40 °C :: >350 °C
· Flash point:	>210 °C
· Flammability (solid, gas):	Not applicable.
Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapour pressure:	Not determined.
Density at 20 °C: Relative density Vapour density Evaporation rate	0.85 g/cm <sup>3</sup> Not determined. Not determined. Not determined.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic: Kinematic at 40 °C:	Not determined. >65 mm²/s
Solvent content: VOC (EC) 9.2 Other information	0.00 % No further relevant information available.

# **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:

Carbon monoxide

Aldehyde

Poisonous gases/vapours

Carbon dioxide



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Trade name: CHEMPIOIL 9117 CH-17 Truck UHPD 5W-30 Blue

(Contd. of page 4)

# **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- Recommendation Smaller quantities can be disposed of with household waste.
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

# **SECTION 14: Transport information**

- · 14.1 UN-Number
- · ADR, IMDG, IATA not regulated
- · 14.2 UN proper shipping name
- · ADR, IMDG, IATA not regulated

(Contd. on page 6)



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Trade name: CHEMPIOIL 9117 CH-17 Truck UHPD 5W-30 Blue

		(Contd. of page 5)
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
· Class	not regulated	
· 14.4 Packing group		
· ADR, IMDG, IATA	not regulated	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Transport in bulk according to Anr	nex II of	
Marpol and the IBC Code	Not applicable.	
· UN "Model Regulation":	not regulated	

# **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H361f Suspected of damaging fertility.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.
- · Department issuing SDS: Product safety department.
- · Contact: Mrs. Zubaite
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

\* Data compared to the previous version altered.



# ALCO QUALITY ASSURANCE LABORATORY TEST REPORT

Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21



Company: ALCO LLC

3, Vali Mammadov st., Sabail dist. AZ1095, Baku, Azerbaijan **Certificate No.:** 20241875 **Date of issue:** 01/11/2024

#### **Test sample**

Product: AVTOIL M-10G2K

Batch number: 24111875

Tank ID: T45.2

Manufacture date: 01/11/2024

Date of sampling: 01/11/2024

Date of analysis: 01/11/2024

#### **Test result**

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C, min.	mm²/s	ASTM D445	10.5-11.5	11.04	Pass
Viscosity index	-	ASTM D2270	Min. 85	99	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Pour Point	°C	ASTM D97	Max15	<-21	Pass
Color, with a dilution of 15:85, units of the CNT	-	ГОСТ 20284	Max. 4.0	0.8	Pass
Density at 15 °C	g/cm <sup>3</sup>	ASTM D4052	Test&Report	0.8808	Pass

ALCO QUALITY ASSURANCE LABORATORY accredited by AzAK for AZS ISO/IEC 17025:2020 at test laboratory.

**Shelf life:** 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.



Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21



#### Notes & Instructions:

- Tests conducted according to International Standard Test Methods are routinely verified to be in compliance
  with the latest published versions. Minor changes may be made where they have no material impact on test
  results and are necessitated by reasons such as safety, environmental standards and method effectiveness.
- This certificate is only valid in its entirety.
- This certificate shall not be reproduced except in full, without the written approval of the laboratory.

Approved by

Allahverdiyeva Aytan Head of Laboratory





# **Turbo Evolution 10W-40**

#### **SPECIFICATIONS**

Engine: gasoline, diesel

SAE: 10W-40

API: CI-4 / SL

ACEA: A3/B4 / E7

#### **APPROVALS AND CONFORMITY**

MB-Approval 228.3 Volvo VDS-3 Mack EO-M Plus / EO-N RENAULT VI, RLD-2

MB 229.1 MAN M 3275 Cummins CES 20071/-72/-75/-76/-77/-78 MTU 2 IVECO Caterpillar ECF-1-a, ECF-2

ALLISON C-4 Voith Retarder Typ A

#### **CHARACTERISTICS**

- · Full Saps technology;
- Low evaporation and high stability;
- Excellent viscosity-temperature behaviour;
- Reduces formation of ageing products at high temperatures;
- · Optimal protection against corrosion, oxidation, wear and foaming;
- Extremely high pressure susceptibility;
- · Highest wear protection.

#### **EFFECTS**

- Meets the requirements of ecological standards EURO 3/4/5;
- All-year-round operation;
- Easy start in cold season;
- · Provides lower fuel consumption;
- Excellent viscosity characteristics even during extended drain intervals;
- · Prevents black sludge formation;
- Protection against reflector surface formation;
- · Minimum wear at highly strained engines;
- · Versatility, which reduces the number of varieties of consumed oil for mixed fleets.

Конфиденциальность Условия использовани

#### **DISPOSAL**

Wolver Turbo Evolution SAE 10W-40 is assigned to category 2 of used oils and thus is free for disposal.

#### **TYPICALS**

Kinematic viscosity at 100 °C, mm²/s	14.9
Viscosity index, -	165
Pour point, °C	-34
Viscosity CCS at -20 °C, mPa⋅s	6400
TBN, mgKOH/g	10.5
Flash point , °C	228
Density at 15.6 °C, kg/m³	863

#### **DESCRIPTION**

Wolver Turbo Evolution 10W-40 is a highly effective semi-synthetic engine oil of a new level of modern vehicles and stationary engines, which is a product of the evolution of API CI-4 oil (2002 publication) to higher requirements of ACEA E7 (2016 revision).

Wolver Turbo Evolution 10W-40 is produced with the use of an advanced and balanced additive package - Stable Protect, which allows to ensure optimum productivity, thermal, viscosity and antioxidant stability during a long period of exploitation.

Wolver Turbo Evolution 10W-40 is especially effective in engines of commercial vehicles, medium-loaded engines of main trucks, agricultural and quarry equipment. Complies with the current environmental standards EURO 5/4/3 and can be used in engines with EGR and / or SCR exhaust gas cleaning technologies without a particulate filter.

#### **Application**

- · Commercial vehicle diesel engines
  - with turbocharging;
  - with catalyst technology;
  - with EGR technology;
  - with SCR technology.
- Passenger car diesel engines
  - with turbocharging;
  - with catalyst technology.
- Four-stroke petrol engine
  - with turbocharging;
  - with multivalve technology;
  - with catalyst technology.

#### Miscibility

Wolver Turbo Evolution SAE 10W-40 is fully compatible to comparable lubrications and can be mixed without any doubts. However, it is recommended to take Wolver Turbo Evolution SAE 10W-40 when refilling.

20L - Pail	4398	426036094398	
60L - Barrel	4400	426036094400	

208L - Barrel 4399 426036094399

# ТЕХНІЧНИЙ ОПИС ПРОДУКТУ Technical Data Sheet (TDS)



Завод технічних олив "СП ЮКОЙЛ". 69014, м. Запоріжжя, вул. Базова За, +38 (061) 222 80 20, support@yukoil.com



# CVL

# **MEGA JDX 15W-40**

# Новітня всесезонна моторна олива для дизельних двигунів.

## Опис

Розроблена для техніки, що працює поза дорогами загального користування: сільськогосподарської, будівельної, гірничовидобувної та іншої позашляхової техніки, що експлуатується у важких умовах.

Розроблена з метою подовжити термін служби двигуна і забезпечити його кращий захист і продуктивність. Оптимальна для високонавантажених дизельних двигунів, в тому числі з турбонаддувом, нейтралізатором відпрацьованих газів (EGR) та уловлювачем масляного туману (OMS). Може застосовуватися як в найсучасніших дизельних двигунах, так і двигунах попередніх років випуску. Виготовляється з суміші високоякісних, особливо чистих базових олив з додаванням присадок останнього покоління.

# Доступна фасовка

**8** E

Відро жерстяне 20л



Бочка 200л

## Переваги

- Дозволяє підвищити інтервал заміни масла до 500 мотогодин \* (\* за умови використання оригінальних витратних матеріалів, запасних частин і палива);
- Знижує зношення і збільшує термін служби двигуна;
- Продукт стійкий як до зростання, так і до зниження в'язкості;
- Забезпечує чистоту двигуна;
- Малозольна формула подовжує термін служби дизельного фільтра сажі (DPF);
- Легкий запуск двигуна в холодну пору року;
- Забезпечує зниження витрат на обслуговування за рахунок скорочення часу простоїв.

#### Відповідності

SAE 15W-40 | API CJ-4, CI-4 | ACEA E9, E7 | MB 228.31, MAN M3575, Volvo VDS-4, Renault RLD-3, CES 20081, MTU Type 2.1, ECF-3, DQC III-10LA |

### Типові характеристики

Кінематична в'язкість при 100 °C, мм² / с	16,04
Густина при 20 ° С, кг / м³	873,4
Індекс в'язкості	135
Лужне число, мг КОН / г	8,5 *
Температура спалаху у відкритому тиглі, °С	230
Температура застигання, °С	-30
* - дорівнює 10-10,5 мг КОН /г згідно з американською	
методикою ASTM.	



Випускається за ТУ У 19.2-31852954-079:2016. Дана інформація є довідковою та може бути змінена без попередження. Дана публікація від 26.04.2016 р замінює всі описи даного продукту що були опубліковані раніше.

ТОВ «СП ЮКОЙЛ». Завод технічних олив. Україна,09100, Київська обл., Білоцерківський р-н, місто Біла Церква, вул.Пулюя Івана, будинок 48-А Телефон приймальні: +38 (0612) 65 46 81 Телефон ВТК: +38 (061) 222 80 25 ЄДРПОУ 31852954



YUKO-є зареєстрованою торговою маркою ТОВ "СП ЮКОЙЛ"

Випробувальна лабораторія ТОВ «СП ЮКОЙЛ» атестована на проведення вимірювань показників якості нафтопродуктів, технічних рідин та мастильних матеріалів. Свідоцтво про визнання технічної компетентності № АВ-ЗП 50-24 від 31.10.2024 р. видане ДП "ДНІПРОСТАНДАРТМЕТРОЛОГІЯ", чинне до 31.10.2027 р.

# Паспорт якості фасованої продукції №25047.01.01.1 Олива моторна YUKO MEGA JDX 15W-40 (red label)

Виробник: ТОВ «СП ЮКОЙЛ» за Специфікація

Розфасовано: ТОВ «СП ЮКОЙЛ» за ТУ У 23.2-31852954-027:2006

Клас в'язкості: **SAE 15W-40** 

Клас експлуатаційних властивостей: API CJ-4/CI-4/SN, ACEA E7-16/E9-16

Дата виготовлення: Червень 2025р. Тара: бочка 200л метал; об'єм партії 10 шт.

Номер партії: 25047.16.06.25.01.



Ф.5 СТП014

Назва показника	Вимоги НД	Фактично	Метод випробувань
Густина при 20°С, кг/м³, не більше	910	855,3	ГОСТ 3900 або ASTM D1298
В'язкість кінематична при 100°С, мм²/с	12,5-16,3	14,39	ДСТУ ГОСТ 33 або ASTM D445
Індекс в'язкості, не менше	120	134	ДСТУ ГОСТ 25371 або ASTM D2270
Температура спалаху у відкритому тиглі, °С, не нижче	200	216	ДСТУ ГОСТ 4333 або ASTM D92
Температура застигання, °С, не вище	- 30	- 39	ГОСТ 20287 або ASTM D97
Лужне число, мг КОН/г, не менше	9,0	10,45	ДСТУ 5094 або ГОСТ 11362 або ASTM D4739 або ASTM D2896

Паспорт якості дійсний тільки за наявності печатки.

Висновок: якість продукції відповідає вимогам нормативної документації

Гарантійний термін зберігання - 5 років

М. П.

Начальник ВТК

Юлія ЄВТУШЕНКО

according to Regulation (EU) No. 1907/2006

#### **YUKO MEGA JDX 15W-40**

Print date : June 11, 2018 Product code : 02627 Page 1 из 5

#### 1. Identification of the substance/preparation and of the company

#### Identification of the substance or preparation

YUKO MEGA JDX 15W-40

#### Use of the substance/preparation

Motor oil.

#### Company/undertaking identification

Company name: JV Yukoil Ltd. Street: 3A, Bazovaya

Place: Zaporozhye City, Ukraine

Telephone: +380 61 7174230 Telefax: +380 61 2228032

Contact person: Technical Department e-mail: info@yukoil.com
Internet: www.yukoil.com
Inquiry office: Technical Department
Emergency telephone: +380 61 2705081

#### 2. Hazards identification

#### Explication of special hazards for human health and environment

Following symptoms may occur: allergic reaction

Product evaporation may cause irritation of respiratory tracts, skin and eyes

Do not allow uncontrolled leakage of product into the environment.

Harmful if swallowed.

#### 3. Composition/information on ingredients

#### Chemical characterization (Mixture) Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
283-392-8	01-2119493626-26	Phosphorodithioic acid, mixed, O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	< 1,4 %	N Xi R38 R41 R51/53
-	Not applicable	Olefin Sulfide	< 0,6 %	No R52/53
253-249-4		Reaction products of Benzeneamine, Nphenyl-with nonene (branched)	< 0,2 %	No R53

Full text of each relevant R phrase can be found in heading 16.

#### **Further Information**

DMSO-Extrakt < 3 %, IP 346.

Concentration of PCBs < 1mg/kg.

Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

#### 4. First aid measures

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.

#### After contact with skin

After contact with skin, wash immediately with plenty of Water and soap. Change contaminated clothing. In case of skin irritation, seek medical treatment.

#### After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

### After ingestion

Do not induce vomiting. Rinse mouth immediately and drink large quantities of water. Immediately get medical

according to Regulation (EU) No. 1907/2006

#### **YUKO MEGA JDX 15W-40**

Print date : June 11, 2018 Product code : 02627 Page 2 μ3 5

attention.

#### 5. Fire-fighting measures

#### Suitable extinguishing media

Foam. Extinguishing powder. Carbon dioxide (CO2). Atomized water.

#### Extinguishing media which must not be used for safety reasons

High power water jet.

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2). Sulfur oxides. Phosphorus oxides.

#### Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Extinguishing materials should be selected according to the surrounding area. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately.

#### 6. Accidental release measures

#### Personal precautions

High slip hazard because of leaking or spilled product. Remove all sources of ignition. Wear respiratory protection when in the presence of vapour, dust, and aerosols.

#### **Environmental precautions**

Do not empty into drains or the aquatic environment. In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed. Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

#### Methods for cleaning up/taking up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the assimilated material according to the section on waste disposal.

#### 7. Handling and storage

#### **Handling**

#### Advice on safe handling

Avoid: skin contact. Eye contact. Inhalation.

### Advice on protection against fire and explosion

Remove all sources of ignition.

#### **Storage**

#### Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorption of dampness.

#### Advice on storage compatibility

Keep away from food, drink and animal feed stuff. Keep away from: Oxidizing agents.

#### Further information on storage conditions

Recommended storage temperature: 10 - 30°C Protect against: heat. UV-radiation/sunlight.

### 8. Exposure controls/personal protection

#### **Exposure limit values**

#### Additional advice on control parameters

Recommended limit value for oil mist TWA: 5 mg/m<sup>3</sup> STEL: 10 mg/m<sup>3</sup>

The product does not contain any relevant quantities of substances with legally established exposure limitation.

#### **Exposure controls**

#### Occupational exposure controls

Provide for sufficient ventilation and punctiform air suction at critical points.

#### Protective and hygiene measures

Wash hands before breaks and at the end of work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

#### Respiratory protection

according to Regulation (EU) No. 1907/2006

#### YUKO MEGA JDX 15W-40

Print date : June 11, 2018 Product code : 02627 Page 3 из 5

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.

#### **Hand protection**

Tested protective gloves are to be worn: Deutsche Industry Norms (DIN) / European Norms (EN): EN 374

Suitable material: NBR (Nitrile rubber).

#### Eye protection

Tightly sealed safety glasses. Deutsche Industry Norms (DIN) / European Norms (EN): EN 166

#### Skin protection

Wear suitable protective clothing.

#### 9. Physical and chemical properties

#### **General information**

Physical state: liquid

Color: brownish yellow

#### Important health, safety and environmental information

Test method

pH-Value: neutral

#### Changes in the physical state

Boiling point: > 230 °C

Flash point: 230 °C DIN ISO 2592
Density (at 15 °C): 0,873 g/cm³ DIN 51757
Water solubility: virtually insoluble

Viscosity / kinematic: 16.04 mm<sup>2</sup>/s DIN 51562 (at 100 °C)

Other information

Ignition temperature: > 240 °C DIN 51794

### 10. Stability and reactivity

#### Conditions to avoid

Refer to chapter 7 No further action is necessary. Do not overheat to avoid decomposition by heat.

#### Materials to avoid

Reacts with: Oxidizing agents, strong. acid.

**Hazardous decomposition products** 

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2). Sulfur oxides. Phosphorus oxides.

#### 11. Toxicological information

#### **Acute toxicity**

No data available.

#### Specific effects in experiment on an animal

No data available

#### Corrosive and irritant effects

Irritant effect on the eye: Not an irritant.

Irritant effect on the skin: Prolonged/repeated skin contact may cause skin defatting or dermatitis.

#### Sensitizing effects

Contains: Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts. May cause allergic reaction

## Severe effects after repeated or prolonged exposure

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

#### Carcinogenic/mutagenic/toxic effects for reproduction

No data available

## 12. Ecological information

#### **Ecotoxicity**

No data available

according to Regulation (EU) No. 1907/2006

#### **YUKO MEGA JDX 15W-40**

Print date : June 11, 2018 Product code : 02627 Page 4 из 5

#### **Mobility**

Due to its low solubility in water the product is almost completely mechanically separated in biological waste water treatment facilities.

#### Persistence and degradability

Not easily bio-degradable (according to OECD-criteria). Do not empty into drains or the aquatic environment.

#### Bio accumulative potential

No data available

#### Other adverse effects

No data available

#### Further information

Do not allow uncontrolled leakage of product into the environment.

#### 13. Disposal considerations

#### Advice on disposal

Must not be disposed of with domestic waste. Do not empty into drains or the aquatic environment.

#### Waste disposal number of waste from residues/unused products

130205 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils; synthetic engine, gear and lubricating oils Classified as hazardous waste.

#### Contaminated packaging

Packing which cannot be properly cleaned must be thrown away. Waste disposal according to official state regulations.

#### 14. Transport information

#### Land transport (ADR/RID)

UN number: ADR/RID class: Warning plate
Hazard-no.: -

**Inland waterways transport** 

UN number: ADNR class: Hazard label: 
Marine transport

UN number: IMDG code: Marine pollutant: No

Air transport

UN/ID number: ICAO/IATA-DGR: Hazard label: -

### **Further Information**

Not a hazardous material with respect to these transportation regulations.

#### 15. Regulatory information

#### **EC Labeling**

#### Hazardous components to be labeled

Contains: Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts. May cause allergic reaction.

### S phrases

24 Avoid skin contact

37 Wear suitable protective gloves

## Special labeling for certain preparations

Safety data sheet available for professional user on request.

### Additional advice on labeling

There is no obligatory labeling requirement according to the Directive covering preparations 1999/45/EC.

#### National regulatory information

Water contaminating class (D): 2 - water contaminating

according to Regulation (EU) No. 1907/2006

#### **YUKO MEGA JDX 15W-40**

Print date : June 11, 2018 Product code : 02627 Page 5 из 5

#### 16. Other information

#### Full text of R-phrases referred to under sections 2 and 3

- 38 Irritant to skin.
- 41 Risk of serious damage to eyes.
- 51/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- H319 Cause serious eyes irritation

#### **Further Information**

These given data only refer to the named product. If the product is used together with other materials or in manufacturing processes the data might not be applicable any more. The data are based on today's state of our knowledge and experience. They are, however, no guarantee of any specific product properties and do not established any legally valid contractual relationship.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.

ТОВ «СП ЮКОЙЛ». Завод технічних олив. Україна, 09100, Київська обл., Білоцерківський р-н, місто Біла Церква, вул.Пулюя Івана, будинок 48-А Телефон приймальні: +38 (0612) 65 46 81 Телефон ВТК: +38 (061) 222 80 25 €ДРПОУ 31852954



Випробувальна лабораторія ТОВ «СП ЮКОЙЛ» атестована на проведення вимірювань показників якості нафтопродуктів, технічних рідин та мастильних матеріапів. Свідоцтво про визнання технічної компетентності № АВ 43-22 від 22.11.2022р. видане ДП «ЗАПОРІЖОКЯСТАНДАРТМЕТРОЛОГІЯ», чинне до 16.11.2024 р

# Паспорт якості фасованої продукції №20006.01.01.1

# Олива трансмісійна YUKO Нігрол – Л (GL-1, SAE 140) ту у 19.2-31852954-010:2021

Виробник: ТОВ «СП ЮКОЙЛ».

Розфасовано: ТОВ «СП ЮКОЙЛ» за ТУ У 23.2-31852954-027:2006

Клас в'язкості: **SAE 140** 

Клас експлуатаційних властивостей: API GL-1

Дата виготовлення: Травень 2024р.

Тара: каністра 5л ПЕ Номер партії: 20006.13.05.24.01.

			Ф.5 СТП014
Назва показника	Вимоги НД	Фактично	Метод випробувань
Густина при 20°С, кг/м³, не більше	970	919,0	ГОСТ 3900 або ASTM D1298
В'язкість кінематична при 100°С, мм²/с	27 - 34	29,3	ДСТУ ГОСТ 33 або ASTM D445
Температура спалаху у відкритому тиглі, °С, не нижче	150	170	ДСТУ ГОСТ 4333 або ASTM D92
Температура застигання, °С, не вище	- 5	- 5	ГОСТ 20287 або ASTM D97
Вміст забрюднювачів	Відсутність	Відсутність	ДСТУ ГОСТ 26378.2
Масова частка води, %, не більше	0,15	0,15	ГОСТ 2477 або ASTM D95
Масова частка водорозчинних кислот та луг, %	Відсутність	Відсутність	ГОСТ 6307
Випробування на корозію пластинок із сталі та міді	Витримує	Витримує	ГОСТ 2917 або ASTM D130

Паспорт якості дійсний тільки за наявності печатки.

Висновок: якість продукції відповідає вимогам ТУ У 19.2-31852954-010:2021 і ТУ У 23.2-31852954-027:2006

Гарантійний термін зберігання - 5 років

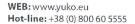
М. П.

Начальник ВТК

Анна ЛАРЧЕНКО

митних докумен НАКЛАДНИХ ТА ПАСПОРТІВ ЯКОСТ

31852954



E-mail: support@yukoil.com Tel.: +38 (061) 222 80 32











Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21



Company: ALCO LLC

3, Vali Mammadov st., Sabail dist. AZ1095, Baku, Azerbaijan Certificate No.: 2024624 Date of issue: 25/04/2024

#### **Test sample**

Product: AVTOIL 80W90 GL-5

Batch number: 2404624

Tank ID: T41.2

Manufacture date: 25/04/2024

Date of sampling: 25/04/2024

Date of analysis: 25/04/2024

#### **Test result**

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C	mm²/s	ASTM D445	13.5-18.5	14.69	Pass
Viscosity index	-	ASTM D2270	Min. 90	93	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 200	218	Pass
Pour Point	°C	ASTM D97	Max30	-33	Pass
Color.	-	ASTM D1500	Max. 6.0	3.9	Pass
Density at 15 °C	g/cm <sup>3</sup>	ASTM D4052	Test & Report	0.8952	Pass

ALCO QUALITY ASSURANCE LABORATORY accredited by AzAK for AZS ISO/IEC 17025:2020 at test laboratory.

Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.



Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21



#### Notes & Instructions:

- Tests conducted according to International Standard Test Methods are routinely verified to be in compliance
  with the latest published versions. Minor changes may be made where they have no material impact on test
  results and are necessitated by reasons such as safety, environmental standards and method effectiveness.
- This certificate is only valid in its entirety.
- This certificate shall not be reproduced except in full, without the written approval of the laboratory.

#### **Authorised singnatory**

Allahverdiyeva Aytan Head of Laboratory

Josepheres

Tsgandarli Nazrin Lead Chemical Engineer





Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21



Company:

**ALCO LLC** 

3, Vali Mammadov st., Sabail dist. AZ1095, Baku, Azerbaijan Certificate No.: 2024314

Date of issue: 05/03/2024

#### **Test sample**

Product: AVTOIL 85W140 GL-5

Batch number: 2402314

Tank ID: T41.4

Manufacture date: 27/02/2024
Date of sampling: 27/02/2024

Date of analysis: 27/02/2024

### **Test result**

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance		Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C	mm²/s	ASTM D445	24.0-32.5	26.34	Pass
Viscosity index	-	ASTM D2270	Min. 90	105	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 200	256	Pass
Pour Point	°C	ASTM D97	Max18	-21	Pass
Color	-	ASTM D1500	Test & Report	4.3	Pass
Density at 20 °C	g/cm <sup>3</sup>	ASTM D4052	Test & Report	0.8924	Pass

ALCO QUALITY ASSURANCE LABORATORY accredited by AzAK for AZS ISO/IEC 17025:2020 at test laboratory.

Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.



Accreditation No: AZS ISO/IEC 17025 2020/AZ 01 0571 01 21



Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

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**Authorised singnatory** 

Allahverdieva Aytan Head of Laboratory

- Cobeceesed

Isgandarli Nazrin Chemical Engineer





# Hydrauliköl HVLP 46

#### **SPECIFICATIONS**

ISO: HV

DIN: 51524 Teil 3

#### APPROVALS AND CONFORMITY

BOSCH Rexroth SEB 181222 ANFOR NF E 48-603 (HM, HV) SIS SS 155434 Denison Filterability TP 02100 Hoesch HWN 2333 U.S.Steel 126 u., 127 CETOP RP 91 H (HM, HV) Sperry Vickers M-3950-S u., I-286-S FZG-Test A 8,3/90 12

#### **CHARACTERISTICS**

- · Excellent protection against wear and aging;
- High shear stability and oxidation resistance;
- · Improved protection against bullying;
- Excellent viscosity-temperature properties;
- · All-season characteristic;
- Improved corrosion protection;
- Excellent demulsibility.

#### **EFFECTS**

- Uninterrupted operation even in systems made of different metals;
- · Long oil life;
- Reducing wear and tear under severe operating conditions, especially when impact loads;
- Designed mainly for equipment operating in a cold climate (mountainous terrain, winter sports zones, winter road service, refrigerators, freezers);
- · Reduced assortment of used lubricants simplification of orders and logistics;
- Long service life of equipment;
- · Protection against penetrating water.

## **DISPOSAL**

• Wolver Hydrauliköl HVLP 46 is assigned to category 2 of used oils and thus is free for disposal.

Конфиденциальность Условия использовани

#### **TYPICALS**

Kinematic viscosity at 40 °C, mm²/s	46.4
Viscosity index , -	133
Pour point, °C	-42
Total acid number, mgKOH/g	0.9
Flash point , °C	212
Density at 15.6 °C, kg/m³	874

#### **DESCRIPTION**

Wolver Hydraulik HVLP 46 – it is zinc-containing working fluids on a mineral basis, which have excellent viscosity-temperature properties and a corresponding all-season characteristic. Due to this, the maximum smoothness of the hydraulic system operation is guaranteed, even under extreme temperature fluctuations and when the system is started up.

#### **Application**

- Designed for modern hydraulic systems;
- Particularly recommended for hydraulic systems operating year-round in the open air;
- Recommended for systems subject to strong temperature fluctuations (barriers, baling presses, sluices, dams);
- They are used in hydrostatic systems of construction machines, forklift trucks, container trucks and municipal vehicles.



# Hydrauliköl HLP 32

#### **SPECIFICATIONS**

ISO: HM

DIN: 51524 Teil 2

## **APPROVALS AND CONFORMITY**

BOSCH Rexroth SEB 181222 ANFOR NF E 48-603 (HM, HV) SIS SS 155434 Denison Filterability TP 02100 Hoesch HWN 2333 U.S.Steel 126 u., 127 CETOP RP 91 H (HM, HV) Sperry Vickers M-3950-S u., I-286-S FZG-Test A 8,3/90 12

#### **CHARACTERISTICS**

- High pressure susceptibility;
- Excellent wear protection;
- High air and water separating property;
- Very good viscosity temperature behaviour;
- · High ageing stability;
- · Reliable corrosion protection;
- · Neutral towards sealing materials.

#### **EFFECTS**

- High operation safety of hydraulic equipment;
- · Favourable operating properties;
- High performance level.

#### **DISPOSAL**

• Wovler Hydrauliköl HLP 32 is assigned to category 2 of used oils and thus is free for disposal.

Конфиденциальность Условия использовани

#### **TYPICALS**

Kinematic viscosity at 40 °C, mm²/s	31.8
Viscosity index , -	104
Pour point, °C	-37
Total acid number, mgKOH/g	0.9
Flash point , °C	204
Density at 15.6 °C, kg/m³	873

#### **DESCRIPTION**

Wovler Hydrauliköl HLP 32 – is optimum alloyed and is having a high performance level as well as a broad field of application within the whole industry. It especially distinguishes with good viscosity-temperature behaviour, high ageing stability and reliable corrosion protection.

Wolver Hydrauliköl HLP 32 – effective additives provides an excellent wear protection under extreme loads. Too (FZG-Test A/8,3/90 12th damage loading step). The behaviour against sealing materials is neutral).

#### **Applications**

- Hydraulic equipment according DIN 51524;
- for exampel: mobil hydraulics, pressing and forging plants, splash-pour-machines, a.o.

20L - Pail	4210	4260360942105	
60L - Barrel	4196	4260360941962	
208L - Barrel	4211	4260360942112	



Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21



Company: ALCO LLC Certificate No.: 2024003

3, Vali Mammadov st., Sabail dist. **Date of issue:** 29/02/2024 AZ1095, Baku, Azerbaijan

#### **Test sample**

Product: AVTOIL SOLIDOL

Batch number: G202403003

Tank ID: T41.3

Manufacture date: 29/02/2024

Date of sampling: 29/02/2024

Date of analysis: 29/02/2024

#### **Test result**

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	lumps, from ligh	ointment without nt yellow to dark own	Pass
Dropping temperature	°C	GOST 6793	Min. 78	94	Pass
Penetration at 25°C with stirring 60 double cycles	mm <sup>-1</sup>	GOST 5346 method B	230-290	270	Pass
Viscosity effective and average strain rate gradient, 10c-1 - at 0°C temperature	Pa	GOST 7163	Max. 250	220	Pass
Strength limit at 50°C	Pa	GOST 7143 method B	Min. 196	230	Pass
Mass fraction of free alkali in NaOH	%	GOST 6707	Max. 0.2	0.14	Pass
Organic acid content	%	GOST 6707	None	None	Pass
Water content	%	GOST 2477	Max. 2.5	1.4	Pass
Mechanical impurities content, insoluble in hydrochloric acid	%	GOST 6479	None	None	Pass
Mass fraction of calcium soaps of fatty acids that are part of	%	GOST 5211	Min. 11.0	18.0	Pass

ALCO QUALITY ASSURANCE LABORATORY accredited by AzAK for AZS ISO/IEC 17025:2020 at test laboratory.

**Shelf life:** 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.



Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21



#### Notes & Instructions:

- Tests conducted according to International Standard Test Methods are routinely verified to be in compliance
  with the latest published versions. Minor changes may be made where they have no material impact on test
  results and are necessitated by reasons such as safety, environmental standards and method effectiveness.
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#### **Authorised singnatory**

Allahverdiyeva Aytan Head of Laboratory

Josepheres

Tsgandarli Nazrin Lead Chemical Engineer



ТОВ «СП ЮКОИЛ». Завод технічних олив. Україна, 09100, Київська обл., Білоцерківський р-н, місто Біла Церква, вул.Пулюя Івана, будинок 48-А Телефон приймальні: +38 (0612) 65 46 81 Телефон ВТК: +38 (061) 222 80 25 €ДРПОУ 31852954



Випробувальна лабораторія ТОВ «СП ЮКОЙЛ» атестована на проведення

# Паспорт якості фасованої продукції №10118.01.01.

# Мастило YUKO Солідол Жировий

Виробник ТОВ «СП ЮКОЙЛ»

Розфасовано ТОВ «СП ЮКОЙЛ» за ТУ У 23.2-31852954-027:2006

Клас NLGI **NLGI 2/3** 

Клас експлуатаційних властивостей: K2/3C-25, ISO-L-XBAEA2/3

Дата виготовлення: Березень 2025р.

Тара: відро 5л ПЕ

Номер партії 10118.07.03.25.01.

Назва показника	Вимоги НД	Фактично	Mozo z zwan 5
Зовнішній вигляд	Однорідне мастило від світло-жовтого до темно- коричневого кольору	Фактично Однорідне мастило коричневого кольору	Метод випробувань ГОСТ 1033 п. 4.2
Температура крапання, °С, не нижче	78	98,0	ГОСТ 6793
В'язкість ефективна при 0°С та середньому градієнті швидкості деформації 10 с-1, Па·с, не більше	250	242	FOCT 7163
Пенетрація при 25°C з перемішуванням, мм·10-1	230-290	265	ГОСТ 5346, метод В
Межа міцності на зсув при 50°С, Па, не менше	196	440	ГОСТ 7143
ольше	0,2	0,062	FOCT 6707
Масова частка вільних органічних кислот	Відсутність	Відсутність	LOCT 6707
Масова частка механічних домішок, не розчинних у соляній кислоті, %, не більше	Відсутність	Відсутність	ГОСТ 6707 ГОСТ 6479
Масова частка води, %, не більше	2,5	0,1	FOOT 0477
		11,0	ΓΟCT 2477 ΓΟCT 5211

сті дійсний тільки за наявності печатки.

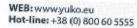
Висновок: якість продукції відповідає вимога». ГОСТ 1033-79 і TV V 23.2-31852954-027:2006

Гарантійний термін зберігання - 5 років

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# **Super Fluid ATF IID**

#### **SPECIFICATIONS**

Engine: gasoline, diesel

#### APPROVALS AND CONFORMITY

GM DEXRON II D GM 6137M ALLISON C-3/C-4 CATERPILLAR TO-2 CHRYSLER MS-6704A

CLARK FORM TLC-25 3M 8-83 FORD M2C 138-CJ FORD M2C 166-H FORD MERCON FORD SQM-9010 B

FORD M2C 33F/G FORD M2C 185A KOMATSU DRESSER B22-0004 RENK DOROMAT Automatic MAN 339 Type D

MB 236.1 MB 236.5 MB 236.6 MB 236.7 VME AMERICAS EEMS 19088 G VOITH Liste 55.6335 VOLVO 97340

VOLVO 97325 VOLVO 97335 ZF TE-ML, 03D, 04D, 09A,11A,14A

#### **CHARACTERISTICS**

- · High thermo stability;
- · No foaming formation;
- · Optimal friction characteristic;
- · High load capacity;
- Best oxidation stability;
- · Extrem wear protection;
- · Extreme low pour point;
- Excellent viscosity-temperature behaviour;
- · Neutral towards metals and sealing materials.

#### **EFFECTS**

- · Optimal operating reliability at extreme conditions;
- · Very good flow flexibility at low temperatures;
- · Best lubrication;
- Engine oil for all seasons.

#### **DISPOSAL**

• Wolver Super Fluid ATF II D is assigned to category 2 of used oils and thus is free for disposal.

онфиденциальность словия использования

#### **TYPICALS**

Kinematic viscosity at 100 °C, mm²/s	
Viscosity index	163
Pour point, °C	-43
Flash point, °C	197
Density at 15.6 °C, kg/m³	862

#### **DESCRIPTION**

Wolver Super Fluid ATF II D – automatic fluid gear oil ATF-Dexron II D is the further development of ATF fluid gear oil with increased load property, best oxidation stability, exceptional good viscosity-temperature behaviour, extrem low pour point and high therm capacity.

Wolver Super Fluid ATF II D – prevents foaming and provides good wear protection because of high efficient EP additives. It is a special gear oil for application of automatic switched vehicle gears.

#### **Application**

- · Passenger car automatic gear;
- · Passenger car gear box according service instructions;
- · Passenger car servo steering according service instructions;
- Vehicle hydraulic plants according service instructions.

Not suitable for use in CVT or DCT-transmissions.

#### Miscibility

Wolver Super Fluid ATF II D is fully compatible to comparable lubrications and can be mixed without any doubts. However, it is recommended to take Wolver Super Fluid ATF II D when refilling.



# **Super Fluid ATF 3000**

#### **SPECIFICATIONS**

Engine: gasoline, diesel

#### APPROVALS AND CONFORMITY

GM Dexron III-H / III G / III F ALLISON C-4/TES 389 CATERPILLAR TO-2 CHRYSLER MS-9602 CHRYSLER MS-7176 FORD MERCON FORD M2C 138-CJ, 166-H MAN 339 Typ Z1 & V1, Z2 & V2 MB 236.1 MB 236.5 MB 236.6 MB 236.7 VOITH 55.6335 VOITH 55.6336 VOLVO 97340 VOLVO 97341 ZF TE-ML 02F, 04D, 09, 11A, 14A, 17C

#### **CHARACTERISTICS**

- Extrem wear protection;
- · High thermo stability;
- Optimum foaming behaviour;
- Optimum matched friction behaviour;
- · High load capacity;
- · High oxidation stability;
- · Excellent viscosity-temperature behaviour;
- Extreme low pour point;
- · Neutral towards metals and sealing materials.

#### **EFFECTS**

- · Optimal operating reliability at extreme conditions;
- · Excellent cold flow qualities;
- · Best lubrication;
- · All-year operation;
- · Reduces kinds by universal property.

#### **DISPOSAL**

• WOLVER Super Fluid ATF 3000 is assigned to category 2 of used oils and thus is free for disposal.

онфиденциальность словия использования

#### **TYPICALS**

Kinematic viscosity at 100 °C	7.8 mm²/s
Viscosity index	179
Pour point	-46 °C
Flash point	205 °C
Density at 15.6 °C	859 kg/m³

#### **DESCRIPTION**

Wolver Super Fluid ATF 3000 ATF Dexron III H automatic transmission fluid is a development of ATF transmission oils. Carefully selected mineral and HC-Synthetic base oils and modified additive and effective ingredient combinations make the quality of this ATF perfect.

Wolver Super Fluid ATF 3000 overlaps the requirements of Dexron II D, Dexron III F, Dexron III G ATFs. It is a special transmission oil for use in modern, self-engaging vehicle transmissions.

Outstanding ageing and oxidation stability makes it Wolver Super Fluid ATF 3000 suitable for lifetime applications (Note manufacturer's specifications).

#### **Application**

- · Passenger car automatic gear;
- · Passenger car gear box according service instructions;
- · Passenger car servo steering according service instructions;
- · Vehicle hydraulic plants according service instructions;
- Fluid couplings on vehicles in accordance with manufacturer's specifications;
- Hydrodynamic converters on vehicles in accordance with manufacturer's specifications.

Not suitable for use in DCT/DSG- or CVT-transmissions.

#### Miscibility

Wolver Super Fluid ATF 3000 is fully compatible to comparable lubrications and can be mixed without any doubts. However, it is recommended to take Wolver Super Fluid ATF 3000 when refilling.

1L - Can	4129	4260360941290
20L - Pail	4307	4260360943072
208L - Barrel	4048	4260360940484



# Fluidmatic HD XLD

# **Automatic Transmission Fluid**

# **KEY DATA**



# MANUFACTURER APPROVALS

- ♦ ZF TE-ML 14F
- ♦ ZF TE-ML 20G
- ZF TE-ML 26D
- MAN 339 Z14
- MAN 339 Z21
- Volvo 97005

## **TECHNOLOGY**

# Life-boost technology

#### Your peace of mind solution.

Life-boost technology will maximize the durability of the components and parts of the driveline equipment of your vehicle.

Our products will offer the best services as your vehicle will require drastically less maintenance providing reduced Total Cost Ownership (TCO) with on top a significant extended drain interval. A solution which offers a peace of mind throughout the normal lifetime of your vehicle.



#### **APPLICATIONS**

Fluidmatic HD XLD is a next-generation automatic transmission fluid, specially developed for the latest ZF Ecomat, Ecolife, and Powerline gearboxes. This advanced synthetic automatic transmission fluid is engineered for modern heavy-duty gearboxes, ensuring exceptional performance and extended drain intervals. Recommended for ZF-manufactured automatic transmissions in buses and utility vehicles, where maximal drain intervals are required.

## PERFORMANCES & CUSTOMER BENEFITS

- Outstanding Oxidation and Thermal Stability: Reduces deposit formation and harmful acidic by-products, enabling maximal drain intervals.
- Excellent viscosity Stability: Maintains consistent viscosity, ensuring reliable lubrication even under severe operating conditions.
- Extended drain Intervals: This technology, specially developed for ZF transmissions, enables extra-long drain intervals. It enhances the efficiency of filtration systems, reducing the frequency of filter changes and lowering maintenance costs.
- Superior Foam Control: Ensures optimal lubrication and hydraulic efficiency by minimizing Foam formation.
- Exceptional Wear Protection: Provides robust Protection against Wear and corrosion, extending the lifespan of transmission components.
- Stable Friction Characteristics: Maintains Excellent shifting performance over a prolonged period, ensuring smooth and reliable operation.
- Enhanced Anti-Wear Properties: Delivers Superior Protection under increasing load constraints, maximizing power transmission efficiency and improving fuel economy.
- Seal Compatibility: Prevents oil leakages and Maintains system integrity, ensuring reliable operation.
- Improved Friction Modifiers: Enhances driver comfort with smooth, efficient, and shudder-free shifting.

## CHARACTERISTICS\*

TEST	UNIT	TEST METHOD	RESULT
Density at 15°C	kg/m3	ISO 3675	841
Kinematic viscosity at 40°C	mm²/s	ISO 3104	34.1
Kinematic viscosity at 100°C	mm²/s	ISO 3104	7.0
Viscosity index	-	ISO 2909	172
Brookfield Viscosity at -40°C	сР	ASTM D2983	12700
Pour point	°C	ISO 3016	-45
Flash Point	°C	ISO 2592	224

<sup>\*</sup>The characteristics given above are obtained with a standard tolerance threshold during production and may not be considered specifications.

### RECOMMENDATIONS FOR USE

Before using the product, the vehicle's maintenance guide should be checked. Oil changes should be carried out in accordance with the manufacturer's recommendations.

The product should not be stored at temperatures over 60°C. It should be kept away from sunlight, intense cold and extreme temperature fluctuations. If possible, the packaging should not be exposed to the elements. Otherwise, the drums should be laid horizontally in order to avoid any contamination from water and to prevent the product's label from rubbing off.

# HEALTH, SAFETY AND THE ENVIRONMENT

Based on the toxicological information available, this product should not cause any adverse health effects, provided it is used for its intended purpose and in accordance with the recommendations laid out in the Safety Data Sheet (SDS).

This can be obtained on request from your local reseller and is available for consultation at <a href="https://ms-sds.totalenergies.com">https://ms-sds.totalenergies.com</a>.

This product should not be used for any purposes other than the ones for which it is intended.



TotalEnergies Lubrifiants / Last update of this datasheet: June 25

Some variations can be expected under normal production conditions, but these should not affect the product's expected performance irrespective of the site. The information contained in this document is subject to change without notice. Our products can be viewed on our website at <a href="https://www.lubricants.totalenergies.com">www.lubricants.totalenergies.com</a>.



# **Brake fluid**

DOT-4

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## 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product identifier		
Mixture name	Brake fluid DOT - 4	
Trade name	Brake fluid DOT - 4	
Identified uses	Brake fluid for all kind of trucks and passenger cars.	
Uses advised against	Any other use.	
	Cherkasy Autochemistry Plant LLC	
	18003, Ukraine, Cherkasy	
Vyacheslava Chornovola, 118, PO Box 729		
Manufacturer tel/fax: +38 (0472) 64-61-60		
	e-mail: site@vamp.ua	
	website: www.vamp.ua	
1.4 Emergency telephone number		
112 (Please note that emergency numbers may vary depending upon the		
country of delivery though 112 remains valid as universal number)		

# 2. HAZARDS IDENTIFICATION

2.1 Classification of the mixtur	·e		
Classification according to Regulation (EC) No 1272/200	08 (CLP)	Additional information	
Acute toxicity, Category 4, oral; Specific Target Organ Toxicity (repeated exp.), Category 2; Affected organs: kidney Route of exposure: Oral		H302: Harmful if swallowed. H373: May cause damage to organs through prolonged or repeated exposure Full text of P- H- phrases see section 16	
Human Health effects			
Inhalation	Slight irritation in the upper respiratory tract or bothersome effect;		
Eyes	Slight irritation.		
Skin	Slight irritation.		
Swallowing	Dose-dependent absorptive effects. Nausea, stomachache, lethargy, drowsiness.		
2.2 Label elements			



# **Brake fluid**

**DOT-4** 

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Product identifier	1,2-Ethanediol (Index # 603-027-00-1); 2,2'-oxydiethanol (Index # 603-140-00-6).
Hazard pictograms	
Signal word	Warning
Hazard statements	H302: Harmful if swallowed. H373: May cause damage to organs through prolonged or repeated exposure
Precautionary statements	P260: Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash with plenty of water and soap thoroughly after handling. P270 Do not eat, drink or smoke when using this product P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. rinse mouth. P314: Get medical advice/attention if you feel unwell. P501 Dispose of contents/ container in accordance with local regulations
Additional information	None

## 2.3 Other hazards

The substances in mixture do not meet the criteria for PBT or vPvB according to Annex XIII of Regulation (EC) No.1907/2006 (REACH).

Most of substances in mixture are combustible, difficult to ignite.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures (Hazardous ingredients and/or with relevant occupational exposure limits)					ure limits)	
Chemical name	EC#	CAS#	Concentration, range	Classification	Index #	Reach reg #
2,2'-oxydiethanol	203-872-	111-46-6	≤90	Acute Toxicity, Cat. 4, Ingestion; H302	603- 140- 00-6-	01- 2119457857- 21



# **Brake fluid**

**DOT-4** 

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				STOT – rep. exp. Cat. 2; H373		
1,2-Ethanediol	203-473-	107-21-1	>10	Acute Toxicity, Cat. 4, Ingestion; H302 Stot.rep., Cat. 2; H373	603- 027- 00-1	01- 2119456816- 28
2-aminoethanol	205-483-	141-43-5	0,02	Acute Tox. 4 H302, H312, H332 Skin corrosion Cat. 1B; H314 Serious Eye Damage Cat 1; H318 Hazardous to the Aquatic Env. Chronic Cat. 3; H412 STOT SE 3; H335: C≥5%	603- 030- 00-8	-

The mixture does not contain other additives in quantities that could affect product's labelling and classification according to CLP.

## 4. FIRST AID MEASURES

4.1 Description of first aid measures			
	Inhalation of product is not expected.		
In case of inhalation:	Keep patient calm, remove to fresh air, seek medical		
	attention.		
	Wash affected eyes for at least 15 minutes under		
In case of eye contact:	running water with eyelids held open. Consult		
-	ophthalmologist if irritation persists.		
In case of skin contact:	Wash affected area thoroughly with soap and water.		
In case of ingestion.	Immediately rinse mouth and then drink 200-300 ml of		
In case of ingestion:	water, seek medical attention.		
4.2 Most important symptoms and effects, both acute and delayed			
	Headache, dizziness, weakness. Due to the low vapor		
In case of inhalation	pressure under normal conditions, exposure to vapors is		
	only toxicologically relevant when handling heated		
	mixture.		
In case of eye contact	slightly irritating effect on mucous membranes.		



# **Brake fluid**

**DOT-4** 

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In case of skin contact	Slight irritation, redness, edema.	
	Headache, dizziness, weakness, vomiting, nausea,	
In case of ingestion	diarrhea, in case of severe poisoning: fainting,	
	convulsions, damage to the kidneys.	
	The risk of life-threatening poisoning should generally	
Information to physician and	only exist after ingestion or very massive inhalation of	
Information to physician and	aerosols. Treatment: Treat according to symptoms	
first aider.	(decontamination, vital functions), no known specific	
	antidote	
Universal medical kit with a set of drugs (in		
First aid arsenal	consultation with the medical department of the	
	enterprise).	
4.3 Indication of any immediate medical attention and special treatment needed		
Immediate medical attention is not usually expected.		

#### 5. FIREFIGHTING MEASURES

5.1 Extinguishing media			
Suitable extinguishing media	Water spray, dry powder, alcohol-resistant foam,		
buttuble extinguishing media	carbon dioxide		
Unsuitable extinguishing media	Do not use direct water jets as water destroys the foam.		
5.2 Special hazards arising from the substance or mixture			
	Incomplete combustion is likely to give rise to a		
Hazardans combustion products	complex mixture of airborne solid and liquid		
Hazardous combustion products	particulates and gases, including carbon monoxide and		
	carbon dioxide and minor amounts of nitrous oxides.		
5.3 Advice for firefighters			
Combustible product, ignites from op	Combustible product, ignites from open flame.		

Cool containers with water from distance.

Wear full fire-resistant protective clothing and self-contained breathing apparatus with a full face-piece operated in positive pressure mode for confined or poorly ventilated spaces

Further information: The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

### 6. ACCIDENTAL RELEASE MEASURES.

6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel	Avoid contact with skin and eyes. Use personal	
	protective clothing. Stop or contain leak at the source if	
	safe to do so. Avoid direct contact with released	



# **Brake fluid**

**DOT-4** 

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	material. Stay upwind. Keep non-involved personnel
	away from the area of spillage. Alert emergency
	personnel.
	Eliminate all ignition sources if safe to do so (e.g.
	electricity, sparks, fires, flares).
	Body suit of chemically resistant and antistatic
	material. Work gloves providing adequate chemical
	resistance. Work helmet. Antistatic non-skid safety
612 For amanganay	shoes or boots. Goggles if contact with eyes is possible.
6.1.2. For emergency responders	A half or full-face respirator with combined
	dust/organic vapor filter(s), or a Self-Contained
	Breathing Apparatus (SCBA) can be used according to
	the extent of spill and fire presence.
	If release is accompanied with fire – see Section 5.3

#### **6.2 Environmental precautions**

Do not empty into drains. Do not discharge into the subsoil/soil. Prevent product from entering soil, sewers, rivers, waterways or other bodies of water.

Spills should be shielded with an earthen rampart.

## 6.3 Methods and material for containment and cleaning up

For large amounts: Pump off product. Dike the product and other contaminated materials to suitable corrosion resistant containers for recycle, recovery or safe disposal. The product can be absorbed with non-combustible materials e.g. sand and then collected. Flush the spill area with water.

In case soil contamination in big quantities report to local authorities.

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

## **6.4** Reference to other section

Information about personal precautions - see Section 8. Information about waste disposal - see Section 13.

## 7. HANDLING AND STORAGE

7.1 Precautions for safe handling		
	Use in well ventilated areas.	
General precautions for safe	Avoid contact with eyes.	
handling	Avoid prolonged contact with skin.	
	Avoid breathing fumes or vapors.	
Fire preventions	No smoking at working area.	
	Take precautionary measures against static discharges.	



# **Brake fluid**

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	Take precautionary measures against static electricity
	such as ensuring all equipment is electrically grounded.
	Electrical devices must meet the specified temperature
	class.
	Temperature class: T2 (Auto ignition temperature >300 °C).
Aerosol and dust generation preventions	Avoid spraying and mist formation if used with equipment under pressure.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face and remove contaminated clothing and protective equipment before entering eating areas.
<b>Environmental precautions</b>	Do not allow product to enter into surface water or drains.
7.2 Conditions for safe storage, inc	luding any incompatibilities
Technical measures and storage conditions	Store indoors in a cool, dry, well-ventilated area, away from incompatible materials and heat at ambient temperature. Storage temperature: < 40 °C  The stated storage temperature should be noted.
Packaging	aluminum, Stainless steel, High density polyethylene (HDPE), light-impervious
Incompatible materials	Oxidizing agents, strong bases and acids.
Requirements for storage rooms	Provide general ventilation. Protect from atmospheric
and vessels	humidity. Protect contents from the effects of light.
Need for use of stabilizers or antioxidants	No
7.3 Specific end use(s)	
None.	

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters					
Occupational exp	osure limits				
Limit value type (country of Substance name	CAS-No.	Monitoring	Occupational exposure limit value		
origin)	Substance name	CAB-110.	procedures	Long term	Short term
				mg/m³	mg/m³



# Brake fluid DOT -4

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EU (OEL)	2-aminoethanol		141-43-5	Area Air Sampling	2,5	7,6
EU ( OEL)		1,2-Ethanediol	107-21-1	-	LTEL TWA =52	STEL =104
Germany ( DFG)	2.	2'-oxydiethanol	111-46-6	-	LTEL TWA=44	STEL =176
DNEL/DMEL values:						
Substance name		Worker	Consumer	Exposure route	Exposure frequenc y	Remark
		DNEL = 1 mg/m <sup>3</sup>	DNEL = 0.18 mg/m <sup>3</sup>	inhalation	Long term	-
2-aminoethanol		DNEL = 3 mg/kg bw/day	DNEL = 1.5 mg/kg bw/day	dermal	Long term	-
		-	DNEL = 1.5 mg/kg bw/day	oral	Long term	-
		DNEL=35 mg/m <sup>3</sup>	7 mg/m <sup>3</sup>	inhalation	Long- term	-
1,2-Ethanediol		106 mg/kg bw/day	53 mg/kg bw/day	dermal	Long- term	-
		No hazard identified	No hazard identified	Eye	-	local effects
		43 mg/kg bw/day	21 mg/kg bw/day	dermal	Long term	Systemic effect
2,2'-oxydiethanol		44 mg/m³	12 mg/m³	inhalation	Long- term	systemic effects
		60 mg/m <sup>3</sup>	12 mg/m³	inhalation	Long- term	local effects
PNEC values:						
Substance name		Environmental compartment	Value		Assessme nt factor	Remark
		aqua (freshwater)	PNEC = 0.07	mg/L	10	-
	aqua (marine water)	PNEC = 0.007 mg/L		100	-	
2-aminoethanol		sediment (freshwater)	PNEC = 0.357 mg/kg sediment dw		-	-
		sediment (marine water)	PNEC = 0.036 mg/kg sediment dw		-	-
1,2-Ethanediol		aqua (freshwater)	PNEC 10 mg/L			-



# **Brake fluid**

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	PNEC aqua (marine water)	PNEC 1 mg/L	-	
	PNEC aqua (intermittent, freshwater)	PNEC 10 mg/L	-	
	freshwater	PNEC 10 mg/L	-	
2,2'-oxydiethanol	aqua (marine water)	PNEC 1 mg/L	-	
2,2 Oxydictilation	Sediment (freshwater) dw	PNEC = 20.9 mg/kg	-	
8.2 Exposure controls				
Occupational exposur	e controls			
8.2.1. Appropriate engineering controls				
Appropriate general ver				
8.2.2. Individual protection measures, such as personal protective equipment				
Respiratory protection		Not needed during foreseen use. If fumes or mists are formed due to accident use respirator. Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapors of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)		
Eye/face protection		If potential exists for splashing or mist formation, use tightly fitting safety goggles (e.g. EN 166)		
Skin/body protection		Wear working protective gloves (EN 374). Wear regular work clothing.		
8.2.3. Environmental exposure controls				
Measures to prevent exposure		Emissions from wastewaters from work processes should be checked to ensure they comply with the requirements of environmental protection legislation.		

## 9. PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties		
Physical state	Oily liquid	
Colour	Light yellow	
Odour	Almost odorless	



# **Brake fluid**

**DOT-4** 

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Molting point/fragging point	
Melting point/freezing point (°C)	- 35
Initial boiling point/range	230
(°C)	244 (2,2'-oxydiethanol) , 197°C (1,2-ethandiol)
Til 1 - 2124	nonflammable (GHS classification criteria for flammable
Flammability	liquids: no category (nonflammable) Flash point >93 °C)
	Non explosive
	2,2'-oxydiethanol:
	Lower explosion limit: 1.7% by volume 75 g/m <sup>3</sup>
Lower and upper explosion	Upper explosion limit:37% by volume 1635 g/m <sup>3</sup>
limit	1,2- ethandiol :
	Lower explosion limit: 3.2% by volume 80 g/m <sup>3</sup>
	Upper explosion limit: 43 - 51%(by vol. 1090 1326 g/m <sup>3</sup>
	Lower explosion point: 109°C
	120°C
	138 °C (2,2-oxydiethanol)
Flash point (°C)	111°C (1,2- ethandiol)
	91°C – closed cup (2-aminoethanol)
	No data available for mixture
Auto-ignition temperature	372 °C (2,2-oxydiethanol)
(°C)	410°C (1,2-(Ethandiol)
	424 (2-aminoethanol)
Decomposition temperature	,
(°C)	No data available for mixture.
pH	pH value 7,0 -11,5
Kinematic viscosity (cSt =	
mm2/c) at minus (30±1) °C	< 1800
Solubility	Miscible with water.
Partition coefficient n-	Does not apply to mixtures.
Octanol/Water (log Po/w)	11 7
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	No data available for mixture.
Vapour pressure (kPa)	0.008hPa(2,2-oxydiethanol)
Topical product (inclusion	0.123  hPa at  25  °C(1,2- ethandiol)
Density and/or relative	
density	1,06
Relative vapour density	No data available for mixture
Particle characteristics	Not applicable
9.2 Other information	
9.2.1. Information with	
regard to physical hazard	None
classes	
Classes	



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9.2.2. Other safety	None
characteristics	None

# 10. STABILITY AND REACTIVITY

10.1 Reactivity	The substance can react dangerously with strong oxidizing agents
10.2 Chemical stability	The product is stable upon appropriate handling and storage conditions.
10.3 Possibility of hazardous reactions	oxidation in flame or excessive heat. Risk of explosion in contact with: perchloric acid
10.4 Conditions to avoid	Avoid heat, open flames, incompatible materials.
10.5 Incompatible materials	Oxidizing agents, bases and acids.
	Incomplete combustion is likely to give rise to a complex
10.6 Hazardous	mixture of airborne solid and liquid particulates and gases,
decomposition products	including carbon monoxide and carbon dioxide and minor
	amounts of nitrous oxides.

## 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects.

## Toxicokinetics, metabolism and distribution

The main intake route for mixture at the workplace is via the respiratory tract. Due to the very low vapor pressure of the liquid under normal conditions, exposure to vapors is to be expected mainly on heating.

The kidneys are considered to be a critical target organ of mixture components, even after repeated exposure. Cases of poisoning in humans show that easily acutely toxic doses can be absorbed in this way.

Acute toxicity		The mixture is classified as Acute toxicity, Category 4, oral; respectively classified substances are present in it. Data on substances is presented below.			
Substance name	Exposure route	Value	Exposure time period	Species	Method (as is, equivalent or similar)
2.2 avadiathanal	oral	LD50 =19600 mg/kg bw	-	rat	-
2,2-oxydiethanol	dermal	LD50 = 13300 mg/kg bw	-	Rabbits	-
1,2-ethandiol	oral	LD50 = 4700mg/kg	-	rat	-



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	dermal	LD50 = 10600 mg/kg	-	Rabbits	-	
	oral	LD50 = 1089 mg/kg single dose		rat	OECD Guideline 401	
2-aminoethanol	inhalation	LC50 = 1300 mg/m <sup>3</sup>	6 hours	rat	national standard method with acceptable restrictions	
	dermal	LD50 = 2504 mg/kg 24 hours		rabbit	OECD Guideline 402	
Skin corrosion/irritati	ion	The mixture is not of irritating. Data on s				
Substance name	Relevance	Result		Species	Method (as is, equivalent or similar)	
2,2-oxydiethanol	No	After a single dermal application of 50 mg DEG/kg body weight to the skin about 10% of the dose was absorbed within 72 hours. In the case of impact on injured skin, higher exposures must be expected.		rats	-	
2-aminoethanol	Yes	Erythema score 3 not reversible Classified as Skin corr. 1B		rabbit	OECD Guideline 404	
Serious eye damage/irritation	The mixture is not classified as Serious eye damage/irritation as it contains the lowest concentration of the classified substance. Data on substance presented below					
Substance name	Relevance	Result		Species	Method (as is, equivalent or similar)	
2-aminoethanol	Yes	Irreversible effects on the eye Classified as Eye. Dam. 1.		Rabbit	OECD Guideline 405	
Respiratory or skin sensitization	The mixture is not classified as sensitizing as no respectively classified substances are present in it.					
Germ cell mutagenicity	The mixture is not classified as no respectively classified substances are present in it.					
Carcinogenicity	The mixture is not classified as carcinogen as no respectively classified substances are present in it. 2,2'-oxydiethanol NOAEL (carcinog.), oral, rat=1160 mg/kg bw/day					
Reproductive toxicity		ne mixture is not classified as possessing reproductive toxicity as no spectively classified substances are present in it.				



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	Data on substances presented below.					
Substance name	Relevance	Result		Species	Method (as is, equivalent or similar)	
2-aminoethanol	Yes	NOAEL = 1 000 mg/kg by	v/day	rat	OECD Guideline 415	
2,2'-oxydiethanol		NOAEL (effects on fertil subacute, 3060mg/kg bw		oral, mouse	-	
specific target organ toxicity — single exposure	The mixture is not classified for specific target organ toxicity — single exposure as no respectively classified substances are present in it.					
STOT-repeated exposure	The mixture is classified as STOT-repeated exposure, Category 2, oral (Affected organs: kidney Route of exposure: Oral;) respectively classified substances are present in it.  Data on substances is presented below.					
Substance name	Exposure route	Result	Species		Method (as is, equivalent or similar)	
2,2-oxydiethanol	oral	NOAEL = 300 mg/kg bw/day(98 days)	rats		System: urinary. Organ: kidney	
2-aminoethanol	oral	NOAEL = 300 mg/kg bw/day 75 days	rat			
1,2-ethandiol	oral	NOAEL =150 mg/kg bw/day The kidneys were found to be the target organ at higher doses	rat		equivalent or similar to OECD Guideline 452	
Aspiration hazard	The mixture is not classified for aspiration toxicity as no respectively classified substances are present in it.					
Adverse health effect	l.					
In case of inhalation		due to high concentrations of vapors/aerosol, slight irritation in the upper respiratory tract or bothersome effect; in extreme cases breathing difficulties and absorptive effects				
In case of eye contact		no or little irritation				
In case of skin contact		no significant irritation; systemic effects must be expected if there is extensive contact with damaged skin.				
In case of ingestion		hardly any irritation, dose-dependent absorptive effects.				



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11.2 Information on other hazards				
<b>Endocrine disrupting properties</b>	Any of the ingredient of mixture has not been identified as having endocrine disrupting properties.			

#### 12. ECOLOGICAL INFORMATION

## 12.1 Toxicity:

Due to all available data on environmental fate and aquatic toxicology the substance does not need to be classified according to EU GHS CLP. Data on substances presented below.

Chemical name	Aquatic toxicity	Effect dose	Exposure time	Species	Method
diethylene glycol	Short-term toxicity to fish	LC50=75200 mg/L	96h	Fathead minnow (Pimephales promelas)	a flow-through study
, , ,	Long-term toxicity to fish	(ChV)7694 mg/L	30d	fish	QSAR EpiWin- Program ECOSAR v1.11
ethyleneglycol	Short-term toxicity to fish	LC50>72860 mg/L	96 h	Pimephales promelas	EPA 600/4- 90/027
emylenegrycor	Short-term toxicity to fish	LC50 =41000 mg/l	48 h	Crustaceans	-
	Acute toxicity to fish	LC50 = 280 mg/L	96 hours	Cyprinus carpio	Directive 92/69/EEC, C.1.
2-aminoethanol	Long-term toxicity to fish	NOEC = 1.24 mg/L	41 days	Oryzias latipes	OECD Guideline 210
	Acute toxicity to aquatic invertebrates	EC50 = 27.04 mg/L	48 hours	Daphnia magna	OECD Guideline 202
	Long-term toxicity to aquatic invertebrates	NOEC = 0.85 mg/L	21 day	Daphnia magna	OECD Guideline 202
	Toxicity to aquatic algae and cyanobacteria	NOEC = 1 mg/L	72 hours	Pseudokirchne- riella subcapitata	OECD Guideline 201
	Toxicity to microorganisms	EC10 > 1 000 mg/L	30 min.	activated sludge	OECD Guideline 209

# 12.2 Persistence and degradability

## **Abiotic Degradation**

No data available for mixture.

## **Biodegradation**

Readily biodegradable (according to OECD criteria).



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1,2-ethandiol: After 10 days > 90 % degradation was determined. (OECD 301A)

2,2-oxydiethanol: meet the criteria in a carbon dioxide evolution test according to OECD 301B. % Degradation of test substance: 90 - 100% after 28d

# 12.3 Bioaccumulative potential

No data available for mixture.

## 12.4 Mobility in soil

Study scientifically unjustified (substance is readily biodegradable)

## 12.5 Results of PBT and vPvB assessment

The substances in mixture do not meet the criteria for PBT or vPvB.

## 12.6 Other adverse effects:

None

#### 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods				
Appropriate disposal / Product	Waste disposal should be in strict correspondence with			
	local and national laws and regulations.			
	Waste of the product is not regarded as hazardous			
	according to Directive 2008/98/EC.			
Waste codes according to EWC	none			
	Contaminated stainless steel empty containers should			
Appropriate disposal /Packaging	be properly cleaned and reused.			
	Contaminated PE containers should be disposed as			
	product or municipal waste.			

#### 14. TRANSPORT INFORMATION

The product is transported by railway (RID) and road (ADR) and waterways (ADN)				
Not subject to transport regulations.				
14.1 UN number	None			
14.2 UN proper shipping name	None			
14.3 Transport hazard class(es)	None			
14.4. Packing group	None			
14.5. Environmental hazards	Not considered as marine pollutant according to IMDG			
14.5. Environmental nazarus	Code.			
14.6. Special precautions for user	None			
14.7 Maritime transport in bulk	This product is not transported in bulk and is out of the			
according to IMO instruments scope of Annex II of MARPOL 73/78.				

#### 15. REGULATORY INFORMATION



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## 15.1 Safety, health and environmental regulations/legislation specific for the substance

None

## 15.2 Chemical Safety Assessment

Chemical safety assessment has not been carried for the mixture.

#### 16. OTHER INFORMATION

#### Revision

SDS has been issued for the first time.

#### **Abbreviations**

OEL – occupational exposure limit

VLEP – valeurs limites d'exposition professionnelle- occupational exposure limit values

VLE - valeurs limites d'exposition- occupational exposure limit values

MAK - maximum workplace concentrations

MAC - maximum workplace concentrations

WEL- Workplace Exposure Limits

AK - Permissible average concentration

DNEL - derived no-effect level

PNEC - predicted no effect concentration

LD50 – lethal dose

EC50 – half maximal effective concentration

EC10 - half maximal effective concentration

NOEL - no observed effect level

NOEC - no observed effect concentration

NOAEL – no observed adverse effect level

PBT or vPvB - persistent, bioaccumulative and toxic or very persistent very bioaccumulative

STOT SE – Specific target organ toxicity – single exposure

STOT RE - Specific target organ toxicity – repeated exposure

AF – Assessment factor

## Sources for data

Suppliers' SDS for 1.2-ethandiol

Suppliers' SDS for 2.2'- oxydiethanol

ECHA database on registered substances

GESTIS database on international limit values

Specification TU U 20.5-37439067-006:2019

#### **Classification method**

For the purpose of classification of mixture available data on all substances and additivity principle was used. For the purpose of not classification of mixture for flammable liquids class results of flash point tests for mixture components was used.

# List of hazard statements and/or precautionary statements

H302: Harmful if swallowed.



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H373: May cause damage to organs through prolonged or repeated exposure

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash with plenty of water and soap thoroughly after handling.

P270 Do not eat, drink or smoke when using this product

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. rinse mouth.

P314: Get medical advice/attention if you feel unwell.

P501 Dispose of contents/ container in accordance with local regulations

All H-P-statements are mentioned in full in Section 2 of the SDS.

### Advice on training

Read carefully the SDS before using the product.

Train personnel in the safe use of this product.

The information contained in this SDS is based on current knowledge and experience and describes the product only with regard to the safety of the product. The product must not be used for purposes other than those specified in section 1. The consumer is solely responsible for compliance with all applicable local laws and regulations. This information is not a guarantee of product quality. This information may be subject to revision as new knowledge and experience becomes available. Present SDS must be replaced with a new one if any changes will be made in the composition of the product.



# ПАСПОРТ КАЧЕСТВА № 25-494/р

## Жидкость тормозная DOT-3

Партия №: 25-017-02 Дата фасовки 14.02.2025 Вид и тип тары Масса нетто, кг указано на канистре кан. п/є 0,5л

Nº	Название показателя	Норма	Факт	Метод испытания
1	Внешний вид и цвет	Однородная прозрачная жидкость от бесцветного до светло-коричневого цвета без осадка, допускается слабая опалесценция.	Соответствуе т	п. 6.2 ТУ У 20.5-212468712- 002:2016 та ДСТУ 2436.1(ГОСТ 2706.1)
2	Вязкость кинематическая, мм²/с			п. 6.3 ТУ У 20.5-212468712- 002:2016 та ДСТУ ГОСТ 33
	-при -30±1 °C, не более	1800	901	
	-при +100±0.5°C, не менее	1,5	2,5	
3	Температура кипения при давлении 101,3 кПа, °C, не менее	205	210	п. 6.5 ТУ У 20.5-212468712- 002:2016
4	Температура кипения увлажненной жидкости при давлении 101,3 кПа, °C, не менее	140	169	п. 6.6 ТУ У 20.5-212468712- 002:2016
5	Стабильность при высокой температуре, °С,%, не более	5	2	п. 6.7 ТУ У 20.5-212468712-002:2016
6	Влияние на резину: *			п. 6.8 ТУ У 20.5-212468712-002:2016
	а) изменение объема резины:			
	-марки 7-2462 при (70 ± 2) °C,%, не более	19	3,8	
	б) изменение внешнего вида резины	Отсутствие клейкости и шелушения	Соответствуе т	
7	Показатель активности водородных ионов (рН), ед. рН, в пределах	7.0-11.5	9,0	п. 6.9 ТУ У 20.5-212468712-002:2016
	г) значение показателя активности водородных ионов (рН) после испытаний, ед. рН, в пределах	7.0-11.5	8,8	
8	Совместимость с водой: *			п. 6.11 ТУ У 20.5-212468712- 002:2016
	а) при температуе минус (30±1) °C в течении ( 24±2) ч.		Соответствуе т	
	-внешний вид	Прозрачная жидкость без расслоений и осадка, допускается слабая опалесценция.	Соответствуе т	
	-время прохождения пузырька воздуха через слой жидкости при перекладывании сосуды, С, не более	10	7	
	б) при температуре (60 ± 2) ° С в течение (24 ± 2) ч			
	-внешний вид	Прозрачная жидкость без расслоений и осадка, допускается слабая опалесценция.	Соответствуе т	
9	Массовая доля механических примесей *	Отсутствие	Соответствуе т	п. 6.12 ТУ У 20.5-212468712- 002:2016

Гарантийный срок хранения – 3 года

Эпветель в Ницій за анализ Суржикова Н. Л.

якості роль качества упаковки

Для паспортів

Печать

Подпись

Подпись

Hlugh