

Technical Data Sheet

Revised: 2020/11/26 (version 1.0)



PETRONAS

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/cm ³	0.848
Kinematic Viscosity @ 100°C	ASTM D 445	mm ² /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 refer to product SDS or contact us at: www.pli-petronas.com

Important Note

The word PETRONAS, the PETRONAS logo and such other related trademarks and/or marks used herein are trademarks or registered trademarks of PETRONAS Lubricants International Sdn. Bhd. ("PLISB"), or its subsidiaries or related Holding Corporation under license unless indicated otherwise. The PLI Documents and the information contained herein is believed to be accurate as of the date of printing. PLISB makes no express or implied representation or warranties as to its accuracy or completeness or information in or any transaction performed. The PLI Documents information provided is based on standard tests under laboratory conditions and is given only as a guide. Users are advised to ensure that they refer to the latest version of these PLI Documents. It is the responsibility of the users to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations imposed by the respective local authorities.

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 tortious 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.

Code: 71800

Safety Data Sheet

URANIA NEXT 0W-20

Revision Date: 29/12/2022
version 3



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)

0 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:

Safety Data Sheet

URANIA NEXT OW-20

Revision Date: 29/12/2022
version 3



- EUH208 Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.
EUH208 Contains Molybdenum 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- α -olefins, viscosity 40° C \leq 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

Safety Data Sheet

URANIA NEXT OW-20

Revision Date: 29/12/2022
version 3



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	CAS:125643-61-0 EC:406-040-9 Index:607-530-00-7	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 The mineral base oils contained in this product are severely refined and contain less than 3% DMSO extract according to IP 346 method, and are therefore not classified as carcinogen according to Regulation (EC) No 1272/2008, note L.

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

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:

Safety Data Sheet

URANIA NEXT OW-20

Revision Date: 29/12/2022
version 3



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.

Safety Data Sheet

URANIA NEXT OW-20

Revision Date: 29/12/2022
version 3



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

Safety Data Sheet

URANIA NEXT OW-20

Revision Date: 29/12/2022
version 3



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

Community Occupational Exposure Limits (OEL)

	OEL TYPE	LONG TERM MG/M3	LONG TERM PPM	SHORT TERM MG/M3	SHORT TERM PPM	NOTES
Molibdenum polysulphide long chain alkyl dithiocarbamate complex CAS: Confidential	ACGIH	10.000				

Predicted No Effect Concentration (PNEC) values

	PNEC LIMIT	EXPOSURE ROUTE	EXPOSURE FREQUENCY	REMARK
Bis(nonylphenyl) amine CAS: 36878-20-3	0.1	Fresh Water		mg/l
	0.01	Soil (agricultural)		mg/l
	13200	Air		0 mg/kg
	13200	Fresh Water		mg/kg
	26300	Marine water sediments		0 mg/kg

Derived No Effect Level (DNEL) values

	WORKER INDUSTRIAL	WORKER PROFESSIONAL	CONSUMER	EXPOSURE ROUTE	EXPOSURE FREQUENCY	REMARK
Bis (nonylphenyl) amine CAS: 36878-20-3	0.62			Human Dermal	Long Term, systemic effects	
	4.37			Human Inhalation	Long Term, systemic effects	
			0.31	Human Dermal	Long Term, systemic effects	
			1.09	Human Inhalation	Long Term, systemic effects	

Safety Data Sheet

URANIA NEXT OW-20

Revision Date: 29/12/2022
version 3



0.31 Human Long Term,
mg/kg Oral systemic effects

reaction mass of 0.22 Human Long Term,
isomers of C7- mg/kg Dermal systemic effects
9-alkyl 3-(3,5-
di-trans-butyl-4-
hydroxyphenyl)
propioate
CAS: 125643-
61-0

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.

Safety Data Sheet

URANIA NEXT 0W-20

Revision Date: 29/12/2022
version 3



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

Safety Data Sheet

URANIA NEXT OW-20

Revision Date: 29/12/2022
version 3



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.

Safety Data Sheet

URANIA NEXT 0W-20

Revision Date: 29/12/2022
version 3



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- α -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

Safety Data Sheet

URANIA NEXT OW-20

Revision Date: 29/12/2022
version 3



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

11.2 INFORMATION ON OTHER HAZARDS

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

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 flea
reaction mass of isomers of C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propioate	CAS: 125643-61-0 - EINECS: 406-040-9 - INDEX: 607-530-00-7	a) Aquatic acute toxicity : LC50 Fish Danio Rerio > 74 mg/L 96h

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.2. PERSISTENCE AND DEGRADABILITY

Data on biodegradability of product are not available.

12.3. BIOACCUMULATIVE POTENTIAL

Not available.

12.4. MOBILITY IN SOIL

Safety Data Sheet

URANIA NEXT 0W-20

Revision Date: 29/12/2022
version 3



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

Safety Data Sheet

URANIA NEXT OW-20

Revision Date: 29/12/2022
version 3



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

Safety Data Sheet

URANIA NEXT OW-20

Revision Date: 29/12/2022
version 3



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, together 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

Safety Data Sheet

URANIA NEXT OW-20

Revision Date: 29/12/2022
version 3



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 enters airways.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H412	Harmful to aquatic life with long lasting effects.	
H413	May cause long lasting harmful effects 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	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3
4.1/C4	Aquatic Chronic 4	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.

Safety Data Sheet

URANIA NEXT OW-20

Revision Date: 29/12/2022
version 3



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.

Safety Data Sheet

URANIA NEXT OW-20

Revision Date: 29/12/2022
version 3



WGK: German Water Hazard Class.

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



9120

CHEMPIOIL CH-20 TRUCK SHPD 10W-30

Всесезонное синтетическое моторное масло для высоконагруженных и высокооборотистых дизельных двигателей с турбонаддувом 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 °C) 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 CK-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)



Safety data sheet

according to 1907/2006/EC, Article 31

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)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.05.2020

Version number 1

Revision: 25.05.2020

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

(Contd. of page 1)

· Not dangerous substances		
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%

· **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.

(Contd. on page 3)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 25.05.2020

Version number 1

Revision: 25.05.2020

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

(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)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.05.2020

Version number 1

Revision: 25.05.2020

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

(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 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties**General Information****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:	>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/cm ³
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 mm ² /s

(Contd. on page 5)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.05.2020

Version number 1

Revision: 25.05.2020

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

(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)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.05.2020

Version number 1

Revision: 25.05.2020

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 information

- | | |
|---|-----------------|
| · 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 Annex 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.

(Contd. on page 7)

GB



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.05.2020

Version number 1

Revision: 25.05.2020

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.

GB



Safety data sheet

according to 1907/2006/EC, Article 31

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.
- **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 alkylphenate sulfide	Aquatic Chronic 4, H413	0.78–1.54%
---	-------------------------	------------

Not dangerous substances

CAS: 68649-42-3 EINECS: 272-028-3	Ditiophosor acid O,O-diC1-14-alkilester. zinc salt Skin Irrit. 2, H315; Eye Irrit. 2, H319	0.16–0.76%
CAS: 722503-69-7 EC number: 682-812-0	Calcium long chain alkaryl sulfonate Skin Irrit. 2, H315; Aquatic Chronic 4, H413	0.16–0.76%
CAS: 104-43-8 EINECS: 203-202-9	p-dodecilphenol Repr. 2, H361f; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315	<0.1%
CAS: 68551-12-2	alcohols, C12-16, ethoxylated	0.016–0.078%

(Contd. on page 2)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 25.05.2020

Version number 1

Revision: 25.05.2020

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)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.05.2020

Version number 1

Revision: 25.05.2020

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

(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:	Liquid
· Colour:	Yellow-brown
· Odour:	Product specific
· Odour threshold:	Not determined.
- **pH-value:** Not determined.

(Contd. on page 4)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.05.2020

Version number 1

Revision: 25.05.2020

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

(Contd. of page 3)

· Change in condition Melting point/freezing point: -40 °C Initial boiling point and boiling range: >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 ³ 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 mm ² /s
· 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

GB

(Contd. on page 5)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.05.2020

Version number 1

Revision: 25.05.2020

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 (carcinogenicity, 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)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.05.2020

Version number 1

Revision: 25.05.2020

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 Annex 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.**

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 PAO) 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 TBN-бустеры придают маслу повышенную термоокислительную стабильность, превосходные моюще-диспергирующие свойства (TBN>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 PAO-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 °C) 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)

	<p style="text-align: center;">ALCO QUALITY ASSURANCE LABORATORY TEST REPORT</p> <p style="text-align: center;">Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21</p>	
---	--	---

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.	mm ² /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	Max. -15	<-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 ³	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.



ALCO QUALITY ASSURANCE LABORATORY
TEST REPORT
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.

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, mm ² /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/m ³	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)

YUKO

Завод технічних олив "СП ЮКОЙЛ". 69014, м. Запоріжжя, вул. Базова 3а, +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

 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, мм ² / с	16,04
Густина при 20 ° C, кг / м ³	873,4
Індекс в'язкості	135
Лужне число, мг КОН / г	8,5 *
Температура спалаху у відкритому тиглі, °C	230
Температура застигання, °C	-30

* - дорівнює 10-10,5 мг КОН / г згідно з американською методикою ASTM.

Температурний діапазон застосування



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 олиव.
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°C, кг/м ³ , не більше	910	855,3	ГОСТ 3900 або ASTM D1298
В'язкість кінематична при 100°C, мм ² /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, °C, не нижче	200	216	ДСТУ ГОСТ 4333 або ASTM D92
Температура застигання, °C, 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

Safety Data Sheet

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	01-2119488911-28	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

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

YUKO MEGA JDX 15W-40

Print date : June 11, 2018

Product code : 02627

Page 2 из 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/m³ STEL: 10 mg/m³

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

Safety Data Sheet

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 mm²/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

Safety Data Sheet

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

Safety Data Sheet

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
ЄДРПОУ 31852954



Випробувальна лабораторія ТОВ «СП ЮКОЙЛ» атестована на проведення вимірювань показників якості нафтопродуктів, технічних рідин та мастильних матеріалів. Сертифікат про визнання технічної компетентності № АВ 43-22 від 22.11.2022р. видане ДП «ЗАПОРІЖЖЯСТАНДАРТМЕТРОЛОГІЯ», 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°C, кг/м ³ , не більше	970	919,0	ГОСТ 3900 або ASTM D1298
В'язкість кінематична при 100°C, мм ² /с	27 - 34	29,3	ДСТУ ГОСТ 33 або ASTM D445
Температура спалаху у відкритому тиглі, °C, не нижче	150	170	ДСТУ ГОСТ 4333 або ASTM D92
Температура застигання, °C, не вище	- 5	- 5	ГОСТ 20287 або ASTM D97
Вміст забруднювачів	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 ПАРЧЕНКО



	<p style="text-align: center;">ALCO QUALITY ASSURANCE LABORATORY TEST REPORT</p> <p style="text-align: center;">Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21</p>	
---	--	---

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	mm ² /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	Max. -30	-33	Pass
Color.	-	ASTM D1500	Max. 6.0	3.9	Pass
Density at 15 °C	g/cm ³	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.

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 signatory



Allahverdiyeva Aytan
Head of Laboratory



Isgandarli Nazrin
Lead Chemical Engineer





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.: 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	mm ² /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	Max. -18	-21	Pass
Color	-	ASTM D1500	Test & Report	4.3	Pass
Density at 20 °C	g/cm ³	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.



ALCO QUALITY ASSURANCE LABORATORY
TEST REPORT
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.

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 signatory

Allahverdieva Aytan
Head of Laboratory

Isgandarli Nazrin
Chemical Engineer





Прежнее название: Shell Tellus T

Shell Tellus S2 V 46

- Дополнительная защита
- Универсальное применение

Индустриальная гидравлическая жидкость для применения в широком диапазоне температур

Shell Tellus S2 V - высокоэффективная гидравлическая жидкость, созданная с использованием уникальной запатентованной технологии «Шелл», обладает стабильной вязкостью в широком диапазоне температур и при тяжелых механических нагрузках. Обеспечивает превосходную защиту и стабильную работу гидравлических систем мобильной и прочей техники, работающей в широком диапазоне температур окружающей среды или рабочих температур в гидравлической системе.

DESIGNED TO MEET CHALLENGES

Эксплуатационные качества, Отличительные черты и Преимущества

- **Длительный срок службы гидравлической жидкости - снижение эксплуатационных расходов**

Благодаря стойкости к термическому и химическому разложению гидравлические жидкости Shell Tellus S2 V позволяют увеличить интервалы между сервисными работами, сводят к минимуму образование отложений и показывают превосходные результаты при тестировании в соответствии с промышленным тестом TOST (испытания на окислительную стабильность турбинных масел) стандарта ASTM D943, обеспечивая большую надежность и чистоту гидравлической системы.

Жидкости Shell Tellus S2 V имеют хорошую стабильность в присутствии влаги, что гарантирует их длительный срок службы и снижает риск коррозии и ржавчины, особенно в условиях повышенной влажности.

Модификаторы вязкости, обладающие высокой стабильностью к сдвигу, позволяют свести к минимуму изменения в свойствах гидравлической жидкости на протяжении всего интервала замены смазочного материала.

- **Превосходная защита от износа**

Хорошо зарекомендовавшие себя противоизносные цинксодержащие присадки эффективно действуют в различных условиях эксплуатации: от низких нагрузок до жестких условий эксплуатации с высокими нагрузками. По результатам тестов на плунжерных и пластинчатых насосах, включая такие жесткие, как Denison T6C (сухие и влажные условия) и Vickers 35VQ25, продемонстрированы превосходные эксплуатационные характеристики Shell Tellus S2 V, что помогает увеличить срок службы компонентов системы.

- **Эффективная система снижения затрат на эксплуатацию**

Расширенный интервал рабочих температур Shell Tellus S2 V обеспечивает эффективную работу мобильной техники в самых разных ситуациях: от холодного пуска до обычных условий эксплуатации.

Высокий класс чистоты, превосходная фильтруемость, отличные антипенные, деаэрационные характеристики и водоотделение также позволяют сохранить на высоком уровне или увеличить эффективность гидравлических систем.

Уникальный пакет присадок, используемых в Shell Tellus S2 V, в сочетании с высоким классом чистоты (соответствует требованиям ISO 4406, класс 21/19/16. Согласно спецификации DIN 51524 гидравлические жидкости Shell Tellus S2 V подвержены различным факторам, связанным с транспортировкой и хранением, которые могут повлиять на класс чистоты) позволяет снизить влияние загрязнителей на блокировку фильтров, позволяя увеличить срок службы фильтров и дополнительно защищая оборудование путем более

Область Применения



• Мобильная гидравлика/гидравлические системы, эксплуатируемые вне помещений

Гидравлические системы и приводы, работающие на открытом воздухе, могут подвергаться значительному изменению температуры. Высокий индекс вязкости Shell Tellus S2 V обеспечивает адекватную работу жидкости от условий холодного пуска до тяжелой работы с полной нагрузкой.

• Погрешность гидравлической системы

Прецизионные гидравлические системы требуют повышенного контроля вязкости жидкости на протяжении всего операционного цикла. Shell Tellus S2 V обладает более высокой вязкостно-температурной стабильностью по сравнению с жидкостями ISO HM, что позволяет улучшить эксплуатационные характеристики таких систем.

Для дополнительной эффективности при более тяжелых условиях работы, более продолжительном сроке службы жидкости и для повышенной эффективности работы рекомендуется применение гидравлических жидкостей Shell Tellus с суффиксами «S3» и «S4».

Спецификации, Одобрения и Рекомендации

- Denison Hydraulics (HF-0, HF-1, HF-2)
- Fives Cincinatti P-70 (ISO 46)
- Eaton Vickers (Брошюра 694)
- Swedish Standard SS 15 54 34 AM
- ISO 11158 (HV жидкости)

Типичные физико-химические характеристики

Показатель			Метод	Tellus S2 V 46
Класс вязкости ISO			ISO 3448	46
Тип жидкости ISO				HV
Кинематическая вязкость	@-20°C	сСт	ASTM D445	2350
Кинематическая вязкость	@40°C	сСт	ASTM D445	46
Кинематическая вязкость	@100°C	сСт	ASTM D445	7.9
Индекс вязкости			ISO 2909	143
Плотность	@15°C	кг/л	ISO 12185	0.872

тонкой фильтрацией.

Жидкости Shell Tellus S2 V быстро отделяют воздух без избыточного пенообразования, что помогает обеспечить более эффективную передачу энергии гидравлической системе и минимизировать влияние кавитации, способствующей окислению гидравлической жидкости и снижению сроков службы оборудования.

Совместимость и Смешиваемость

• Совместимость

Гидравлические жидкости Shell Tellus S2 V подходят для большинства гидравлических насосов. Однако, уточните у представителей «Шелл» возможность использования Shell Tellus S2 V в насосах, узлы которых покрыты слоем серебра.

• Совместимость с гидравлическими жидкостями

Жидкости Shell Tellus S2 V совместимы с большинством гидравлических жидкостей на минеральной основе. Тем не менее, гидравлические жидкости на минеральной основе не следует смешивать с жидкостями других типов (экологически чистыми или огнестойкими).

• Совместимость с уплотнительными материалами и лакокрасочными покрытиями

Жидкости Shell Tellus S2 V совместимы с уплотнительными материалами и лакокрасочными покрытиями, обычно используемыми при работе с маслами на минеральной основе.

- ASTM 6158-05 (HV жидкости)
- DIN 51524 часть 3, типа HVLP
- GB 111181-1-94 (HV жидкости)
- Bosch Rexroth RD 90220-01 (2011), ISO 32-68

Для полного списка одобрений и рекомендаций обратитесь, пожалуйста, в службу технической поддержки «Шелл».

Показатель		Метод	Tellus S2 V 46
Температура вспышки в открытом тигле	°C	ISO 2592	225
Температура застывания	°C	ISO 3016	-36
Пробивное напряжение*	кВ	ASTM D877	>30

Значения приведенных физико-химических показателей являются типичными для выпускаемой в настоящее время продукции. В дальнейшем они могут изменяться в соответствии с требованиями спецификации «Шелл».

- * Значение показателя пробивного напряжения масла применимо лишь к продукции, выпущенной на авторизованных заводах «Шелл» и разлитой в тару. Загрязнение гидравлической жидкости водой или твердыми частицами приводит к снижению значения пробивного напряжения масла.

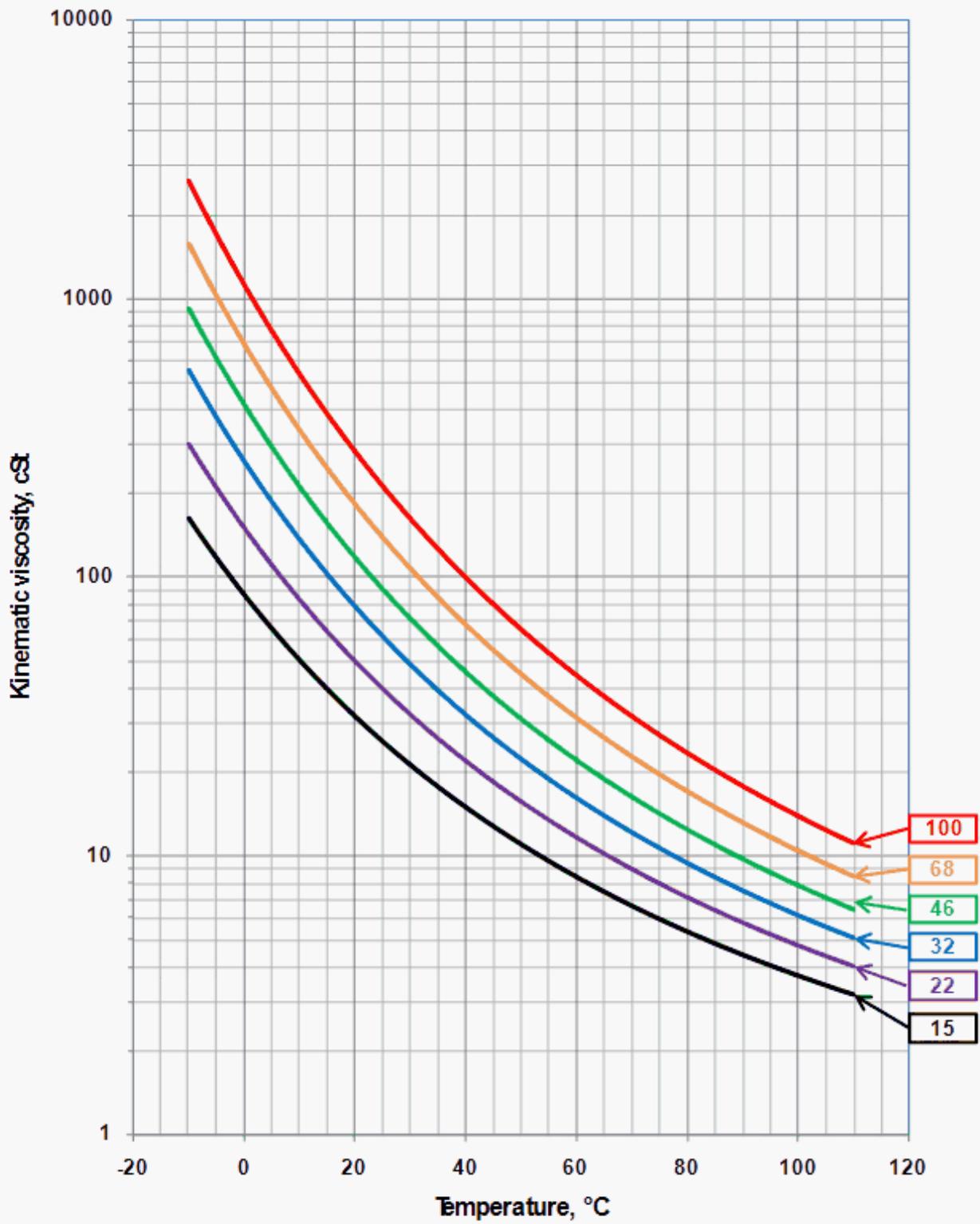
Здоровье, Безопасность и Окружающая среда

- Более полная информация по данному вопросу содержится в паспорте безопасности продукта, который можно получить у представителя «Шелл».
- **Берегите природу**
Отработанное масло необходимо отправлять на специализированные пункты по утилизации. Не сливайте отработанное масло в канализацию, почву или водоемы.

Дополнительная информация

- **Рекомендации**
Рекомендации по применению смазочных материалов в областях, не указанных в данном информационном листке, могут быть получены у представителя фирмы «Шелл».

Viscosity - Temperature Diagram for Shell Tellus S2 V



YUKO LITOLUX EP2

БАГАТОЦІЛЬОВЕ ЛІТІЄВЕ МАСТИЛО

СПЕЦИФІКАЦІЇ:

NLGI 2

ОПИС:

Рекомендовано для змащення вузлів тертя всіх видів: підшипників кочення і ковзання (в т.ч. з ущільнювальними шайбами), шарнірів, направляючих, зубчастих та інших передач промислового обладнання, яке працює в складних умовах і вимагає використання мастил з EP-властивостями, в т.ч. в обладнанні, де присутність вологи є типовою. Мастило працездатне при температурах від мінус 30°C до плюс 130°C (короткочасно до 150°C).

ПЕРЕВАГИ:

- Зниження зношування в умовах високих або ударних навантажень і вібрації;
- Забезпечує чудовий захист від ржавіння і корозії;
- Має стійкість до вимивання водою;
- Забезпечує високу надійність і зберігає обладнання;
- Збільшує термін служби підшипників у вологих середовищах.

ТИПОВІ ХАРАКТЕРИСТИКИ:

Загусник	літій
Температура крапання, °C	205
Пенетрація мм • 10 -1	270
В'язкість ефективна при -20°C, Па·с, не більше	898
Колоїдна стабільність, %	9.7
Трибологічні характеристики на чотирикульовій машині при температурі (20±5)°C:	
- Навантаження зварювання, Н	2450
- Критичне навантаження, Н	820
- Індекс задиру, Н	350
Показник зношування при осьовому навантаженні 392 Н, 1 год, мм	0,45
Межа міцності на зсув при 20 °C, Па	275
Стійкість до окиснення, мг КОН/г	1
Випарність, %	0,47
Корозійний вплив на метал	выдерживает
Стійкість до вимивання водою, %	3,27
Механічна стабільність:	
- межа міцності на розрив при 20 °C, Па	530
- індекс руйнування, %	32,5
- індекс відновлення, %	+18
- межа міцності після руйнування, Па	359
- межа міцності після відновлення, 3 доби, Па	437

Фасування	Артикул	Штрихкод
Картуш пластик 0.4л	016385	482007024519

УМОВИ ЗБЕРІГАННЯ:

Не змішувати з розчинниками, автомобільними рідинами. Берегти від прямих сонячних променів та атмосферних опадів в закритій тарі при температурі не вище +60°C. У разі потрапляння на шкіру або слизову оболонку – промити водою. Берегти від дітей. Вогнебезпечно. Не виливати в каналізацію, водойми та на ґрунт. Утилізувати в спеціально відведених місцях.

ТОВ «СП ЮКОЙЛ». Завод технічних оливо.
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

YUKOIL

YUKOIL-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 №01024.01.01.1 Мастило YUKO LITOLUX EP2

Виробник: ТОВ «СП ЮКОЙЛ» за ТУ У 20.5-31852954-078:2023
Розфасовано: ТОВ «СП ЮКОЙЛ» за ТУ У 23.2-31852954-027:2006
Клас NLGI **NLGI 2**
Клас експлуатаційних властивостей: KP2K-30, ISO-L-XCCEB2



Дата виготовлення: Грудень 2025р.
Тара: картуш 0,4л ПЕ; об'єм партії 6 648 шт.
Номер партії: 01024.29.12.25.01.

Ф.5 СТП014

Назва показника	Вимоги НД	Фактично	Метод випробувань
Зовнішній вигляд	Однорідна мазь гладкої структури	Однорідна мазь гладкої структури жовтого кольору	ГСТУ 38.001 або п. 7.3 цих ТУ
Температура крапання, °С, не нижче	180	200	ГОСТ 6793 або ASTM D2265 з доп. 7.7 цих ТУ
Пенетрація при 25°С з перемішуванням, 0,1 мм	265-295	285	ГОСТ 5346, метод Б або ASTM D217
В'язкість ефективна при мінус 20°С та середньому градієнті швидкості деформації 10 с ⁻¹ , Па·с, не більше	1 500	322	ГОСТ 7163 або ASTM D1092
Колоїдна стабільність: масова частка оливи, відпресованої від мастила, %, не більше	18,00	13,5	ГОСТ 7142
Випаровуваність, %, не більше	2,00	0,8	ГОСТ 9566 з доп. за п. 7.4 цих ТУ
Корозійний вплив на метали	Витримує	Витримує	ГОСТ 9.080 з доп. за 7.5 цих ТУ
Трибологічні характеристики на 4-х кульковій машині при (20±5)°С:			ГОСТ 9490 або ASTM D2596
- навантаження зварювання (Pз), Н, не менше	2 450	2 607	
- критичне навантаження (Pк), Н, не менше	820	1 098	
- індекс задиру (Із), Н, не менше	350	503	
- показник зношування (Dз) при осьовому навантаженні 392Н, протягом 1 год., мм, не більше	0,70	0,60	
Межа міцності на зсув при 20°С, Па, не менше	140	340	ГОСТ 7143, метод Б
Стійкість до окислення, мг КОН/г, не більше	1,00	0,82	ГОСТ 5734
Стійкість до розмиву водою: - зменшення маси мастила, %, не більше	6	3,2	п. 7.6 цих ТУ або ASTM D1264
Вміст води, %, не більше	0,50	0,40	ДСТУ ГОСТ 2477 або ASTM D128
Масова частка механічних домішок, %, не більше	Відсутність	Відсутність	ГОСТ 6479 або ASTM D128

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



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



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

Паспорт якості фасованої продукції №10156.01.01.1

Мастило YUKO Солідол Жировий

ГОСТ 1033-79

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-XBAAE2/3**

Дата виготовлення: Березень 2024р.
Тара: банка 1л жерсть
Номер партії: 10156.08.03.24.01.

Ф.5 СТП014

Назва показника	Вимоги НД	Фактично	Метод випробувань
Зовнішній вигляд	Однорідне мастило від світло-жовтого до темно-коричневого кольору	Однорідне мастило коричневого кольору	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	108	ГОСТ 7163
Пенетрація при 25 °С з перемішуванням, мм·10-1	230-290	250	ГОСТ 5346, метод В
Межа міцності на зсув при 50°С, Па, не менше	196	340	ГОСТ 7143
Масова частка вільного лугу в перерахунку на NaOH, %, не більше	0,2	0,062	ГОСТ 6707
Масова частка вільних органічних кислот	Відсутність	Відсутність	ГОСТ 6707
Масова частка механічних домішок, не розчинних у соляній кислоті, %, не більше	Відсутність	Відсутність	ГОСТ 6479
Масова частка води, %, не більше	2,5	0,1	ГОСТ 2477
Масова частка кальцієвих мил жирних кислот, які входять до складу природних жирів, %, не менше	11,0	11,0	ГОСТ 5211

Паспорт якості дійсний тільки за наявності печатки.

Висновок: якість продукції відповідає вимогам ГОСТ 1033-79 і ТУ У 23.2-31852954-027:2006

Гарантійний термін зберігання - 5 років
М. П.

Начальник ВТК



Анна ДАРЧЕНКО

Company: ALCO LLC
3, Vali Mammadov st., Sabail dist.
AZ1095, Baku, Azerbaijan

Certificate No.: 20252003
Date of issue: 04/10/2025

Test sample

Product: AVTOIL TRANSFLUID DX-IID RED
Batch number: 25102003
Tank ID: T41.2

Manufacture date: 04/10/2025
Date of sampling: 04/10/2025
Date of analysis: 04/10/2025

Test result

Parameters	Unit	Test method	Limit	Test result
Appearance	-	Visual	Bright & Clear	Bright & Clear
Kinematic viscosity at 100 °C	mm ² /s	ASTM D445	Min. 7.000	7.860
Viscosity index	-	ASTM D2270	Min. 125	145
Water content	%	ASTM D95	Max. 0.05	None
Color	-	ASTM D1500	RED	RED
Density at 15 °C	g/cm ³	ASTM D4052	Test & Report	0.8563

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.



**ALCO QUALITY ASSURANCE LABORATORY
TEST REPORT**

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

Aytan Aliyeva
Head of Laboratory





Safety Data Sheet
According to the Regulation (EC) №1907/2006
Brake fluid
DOT -4

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 1 of 16
------------------	--------------	-----------------------	--------------

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.
Manufacturer	Cherkasy Autochemistry Plant LLC 18003, Ukraine, Cherkasy Vyacheslava Chornovola, 118, PO Box 729 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 mixture	
Classification according to Regulation (EC) No 1272/2008 (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	



Safety Data Sheet
According to the Regulation (EC) №1907/2006
Brake fluid
DOT -4

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 2 of 16
------------------	--------------	-----------------------	--------------

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)

Chemical name	EC #	CAS #	Concentration, range %	Classification	Index #	Reach reg #
2,2'-oxydiethanol	203-872-2	111-46-6	≤90	Acute Toxicity, Cat. 4, Ingestion; H302	603-140-00-6-	01-2119457857-21



Safety Data Sheet
According to the Regulation (EC) №1907/2006
Brake fluid
DOT -4

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 3 of 16
------------------	--------------	-----------------------	--------------

				STOT – rep. exp. Cat. 2; H373		
1,2-Ethanediol	203-473-3	107-21-1	>10	Acute Toxicity, Cat. 4, Ingestion; H302 Stot.rep., Cat. 2; H373	603-027-00-1	01-2119456816-28
2-aminoethanol	205-483-3	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	
In case of inhalation:	Inhalation of product is not expected. Keep patient calm, remove to fresh air, seek medical attention.
In case of eye contact:	Wash affected eyes for at least 15 minutes under 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 water, seek medical attention.
4.2 Most important symptoms and effects, both acute and delayed	
In case of inhalation	Headache, dizziness, weakness. Due to the low vapor 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.



Safety Data Sheet
According to the Regulation (EC) №1907/2006
Brake fluid
DOT -4

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 4 of 16
------------------	--------------	-----------------------	--------------

In case of skin contact	Slight irritation, redness, edema.
In case of ingestion	Headache, dizziness, weakness, vomiting, nausea, diarrhea, in case of severe poisoning: fainting, convulsions, damage to the kidneys.
Information to physician and first aider.	The risk of life-threatening poisoning should generally only exist after ingestion or very massive inhalation of aerosols. Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote
First aid arsenal	Universal medical kit with a set of drugs (in 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, 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	
Hazardous combustion products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide and carbon dioxide and minor amounts of nitrous oxides.
5.3 Advice for firefighters	
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



Safety Data Sheet
According to the Regulation (EC) №1907/2006
Brake fluid
DOT -4

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 5 of 16
------------------	--------------	-----------------------	--------------

	<p>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).</p>
6.1.2. For emergency responders	<p>Body suit of chemically resistant and antistatic material. Work gloves providing adequate chemical resistance. Work helmet. Antistatic non-skid safety shoes or boots. Goggles if contact with eyes is possible. 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</p>
6.2 Environmental precautions	
<p>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.</p>	
6.3 Methods and material for containment and cleaning up	
<p>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).</p>	
6.4 Reference to other section	
<p>Information about personal precautions - see Section 8. Information about waste disposal - see Section 13.</p>	

7. HANDLING AND STORAGE

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



Safety Data Sheet
According to the Regulation (EC) №1907/2006
Brake fluid
DOT -4

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 6 of 16
------------------	--------------	-----------------------	--------------

	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.
Environmental precautions	Do not allow product to enter into surface water or drains.
7.2 Conditions for safe storage, including 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 and vessels	Provide general ventilation. Protect from atmospheric 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 exposure limits					
Limit value type (country of origin)	Substance name	CAS-No.	Monitoring procedures	Occupational exposure limit value	
				Long term mg/m ³	Short term mg/m ³



Safety Data Sheet
According to the Regulation (EC) №1907/2006
Brake fluid
DOT -4

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 7 of 16
-------------------------	---------------------	------------------------------	---------------------

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 frequency	Remark
2-aminoethanol	DNEL = 1 mg/m ³	DNEL = 0.18 mg/m ³	inhalation	Long term	-
	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	-
1,2-Ethanediol	DNEL=35 mg/m ³	7 mg/m ³	inhalation	Long-term	-
	106 mg/kg bw/day	53 mg/kg bw/day	dermal	Long-term	-
	No hazard identified	No hazard identified	Eye	-	local effects
2,2'-oxydiethanol	43 mg/kg bw/day	21 mg/kg bw/day	dermal	Long term	Systemic effect
	44 mg/m ³	12 mg/m ³	inhalation	Long-term	systemic effects
	60 mg/m ³	12 mg/m ³	inhalation	Long-term	local effects
PNEC values:					
Substance name	Environmental compartment	Value		Assessment factor	Remark
2-aminoethanol	aqua (freshwater)	PNEC = 0.07 mg/L		10	-
	aqua (marine water)	PNEC = 0.007 mg/L		100	-
	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		-	



Safety Data Sheet
According to the Regulation (EC) №1907/2006
Brake fluid
DOT -4

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 8 of 16
-------------------------	---------------------	------------------------------	---------------------

	PNEC aqua (marine water)	PNEC 1 mg/L	-
	PNEC aqua (intermittent, freshwater)	PNEC 10 mg/L	-
2,2'-oxydiethanol	freshwater	PNEC 10 mg/L	-
	aqua (marine water)	PNEC 1 mg/L	-
	Sediment (freshwater) dw	PNEC = 20.9 mg/kg	-

8.2 Exposure controls

Occupational exposure controls

8.2.1. Appropriate engineering controls

Appropriate general ventilation should be sufficient.

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



Safety Data Sheet
According to the Regulation (EC) №1907/2006
Brake fluid
DOT -4

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 9 of 16
------------------	--------------	-----------------------	--------------

Melting point/freezing point (°C)	- 35
Initial boiling point/range (°C)	230 244 (2,2'-oxydiethanol) , 197°C (1,2-ethandiol)
Flammability	nonflammable (GHS classification criteria for flammable liquids: no category (nonflammable) Flash point >93 °C)
Lower and upper explosion limit	Non explosive <u>2,2'-oxydiethanol</u> : Lower explosion limit: 1.7% by volume 75 g/m ³ Upper explosion limit:37% by volume 1635 g/m ³ <u>1,2- ethandiol</u> : Lower explosion limit: 3.2% by volume 80 g/m ³ Upper explosion limit: 43 - 51%(by vol. 1090 ... 1326 g/m ³ Lower explosion point: 109°C
Flash point (°C)	120°C 138 °C (2,2-oxydiethanol) 111°C (1,2- ethandiol) 91°C – closed cup (2-aminoethanol)
Auto-ignition temperature (°C)	No data available for mixture 372 °C (2,2-oxydiethanol) 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-Octanol/Water (log Po/w)	Does not apply to mixtures.
Vapour pressure (kPa)	No data available for mixture. 0.008hPa(2,2-oxydiethanol) 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 classes	None



Safety Data Sheet
According to the Regulation (EC) №1907/2006
Brake fluid
DOT -4

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 10 of 16
------------------	--------------	-----------------------	---------------

9.2.2. Other safety 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.
10.6 Hazardous decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, 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					
<p>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.</p> <p>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.</p>					
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-oxydiethanol	oral	LD50 = 19600 mg/kg bw	-	rat	-
	dermal	LD50 = 13300 mg/kg bw	-	Rabbits	-
1,2-ethandiol	oral	LD50 = 4700mg/kg	-	rat	-



Safety Data Sheet
According to the Regulation (EC) №1907/2006
Brake fluid
DOT -4

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 11 of 16
-------------------------	---------------------	------------------------------	----------------------

	dermal	LD50 = 10600 mg/kg	-	Rabbits	-
2-aminoethanol	oral	LD50 = 1089 mg/kg	single dose	rat	OECD Guideline 401
	inhalation	LC50 = 1300 mg/m ³	6 hours	rat	national standard method with acceptable restrictions
	dermal	LD50 = 2504 mg/kg	24 hours	rabbit	OECD Guideline 402
Skin corrosion/irritation		The mixture is not classified as skin corrosive or irritating. Data on substances presented below.			
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	The mixture is not classified as possessing reproductive toxicity as no respectively classified substances are present in it.				



Safety Data Sheet
According to the Regulation (EC) №1907/2006
Brake fluid
DOT -4

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 12 of 16
-------------------------	---------------------	------------------------------	----------------------

Data on substances presented below.				
Substance name	Relevance	Result	Species	Method (as is, equivalent or similar)
2-aminoethanol	Yes	NOAEL = 1 000 mg/kg bw/day	rat	OECD Guideline 415
2,2'-oxydiethanol		NOAEL (effects on fertility), subacute, 3060mg/kg bw/day	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 effects and symptoms associated with exposure				
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.			



Safety Data Sheet
According to the Regulation (EC) №1907/2006
Brake fluid
DOT -4

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 13 of 16
------------------	--------------	-----------------------	---------------

11.2 Information on other hazards	
Endocrine disrupting properties	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
	Short-term toxicity to fish	LC50 =41000 mg/l	48 h	Crustaceans	-
2-aminoethanol	Acute toxicity to fish	LC50 = 280 mg/L	96 hours	Cyprinus carpio	Directive 92/69/EEC, C.1.
	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	Pseudokirchneriella 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).					



Safety Data Sheet
According to the Regulation (EC) №1907/2006
Brake fluid
DOT -4

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 14 of 16
-------------------------	---------------------	------------------------------	----------------------

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
Appropriate disposal /Packaging	Contaminated stainless steel empty containers should 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 Code.
14.6. Special precautions for user	None
14.7 Maritime transport in bulk according to IMO instruments	This product is not transported in bulk and is out of the scope of Annex II of MARPOL 73/78.

15. REGULATORY INFORMATION



Safety Data Sheet
According to the Regulation (EC) №1907/2006
Brake fluid
DOT -4

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 15 of 16
------------------	--------------	-----------------------	---------------

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.



Safety Data Sheet
According to the Regulation (EC) №1907/2006
Brake fluid
DOT -4

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 16 of 16
-------------------------	---------------------	------------------------------	----------------------

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.



Изготовитель ООО "Черкасский завод автохимии", Украина, г. Черкассы, ул. В.Черновола 118, тел. +38 (0472) 64-24-04, 64-04-90

ПАСПОРТ КАЧЕСТВА № 25-494/р

Жидкость тормозная DOT-3

Партия №: 25-017-02
Масса нетто, кг указано на канистре

Дата фасовки
Вид и тип тары

14.02.2025
кан. п/е 0,5л

№	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.	Соответствие Т	п. 6.2 ТУ У 20.5-212468712-002:2016 та ДСТУ 2436.1(ГОСТ 2706.1)
2	Вязкость кинематическая, мм ² /с			п. 6.3 ТУ У 20.5-212468712-002:2016 та ДСТУ ГОСТ 33
	-при -30±1 °С, не более	1800	901	
	-при +100±0.5°С, не менее	1,5	2,5	
3	Температура кипения при давлении 101,3 кПа, °С, не менее	205	210	п. 6.5 ТУ У 20.5-212468712-002:2016
4	Температура кипения увлажненной жидкости при давлении 101,3 кПа, °С, 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) °С,%, не более	19	3,8	
	б) изменение внешнего вида резины	Отсутствие клейкости и шелушения	Соответствие 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 температуре минус (30±1) °С в течение (24±2) ч.		Соответствие Т	
	-внешний вид	Прозрачная жидкость без расслоений и осадка, допускается слабая опалесценция.	Соответствие Т	
	-время прохождения пузырька воздуха через слой жидкости при перекачивании сосуда, 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.	Соответствие Т	
9	Массовая доля механических примесей *	Отсутствие	Соответствие Т	п. 6.12 ТУ У 20.5-212468712-002:2016

Гарантийный срок хранения – 3 года

Ответственный за анализ Суржикова Н. Л.

Контроль качества упаковки

Печать



Подпись

Подпись

