

	<p style="text-align: center;"><b>ALCO QUALITY ASSURANCE LABORATORY TEST REPORT</b></p> <p style="text-align: center;">Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21</p>	
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**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 <sup>2</sup> /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 <sup>3</sup>	ASTM D4052	Test&Report	0.8808	Pass

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



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Approved by

Allahverdiyeva Aytan  
Head of Laboratory



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

**Certificate No.:** 20251768  
**Date of issue:** 03/09/2025

**Test sample**

**Product:** AVTOIL SUPER DIESEL 10W-40 CI-4/SL  
**Batch number:** 25091768  
**Tank ID:** T41.1

**Manufacture date:** 03/09/2025  
**Date of sampling:** 03/09/2025  
**Date of analysis:** 03/09/2025

**Test result**

Parameters	Unit	Test method	Limit	Test result
Appearance	-	Visual	Bright & Clear	Bright & Clear
Kinematic viscosity at 100 °C	mm <sup>2</sup> /s	ASTM D445	12.5-16.3	14.97
Viscosity index	-	ASTM D2270	Min. 130	165
Water content	%	ASTM D95	Max. 0.05	None
Pour Point	°C	ASTM D7346	Max. -30	-33
Color	-	ASTM D1500	Test & Report	2.4
TBN	mg KOH/g	ASTM D2896	Min. 9.0	9.87
Density at 15 °C	g/cm <sup>3</sup>	ASTM D4052	Test & Report	0.8588

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**Approved by**

Aytan Aliyeva  
**Head of Laboratory**



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

**Certificate No.:** 20241041  
**Date of issue:** 05/07/2024

**Test sample**

**Product:** AVTOIL INDUSTRIAL HYDRAULIC I-40A  
**Batch number:** 24071041  
**Tank ID:** T45.2

**Manufacture date:** 02/07/2024  
**Date of sampling:** 02/07/2024  
**Date of analysis:** 02/07/2024

**Test result**

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 40 °C	mm <sup>2</sup> /s	ASTM D445	61.0-75.0	62.31	Pass
TAN	mg KOH/g	ASTM D974	Max. 0.05	0.003	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 220	232	Pass
Pour Point	°C	ASTM D97	Max. -15	<-18	Pass
Color	-	ASTM D1500	Max. 3.0	1.0	Pass
Density at 15 °C	g/cm <sup>3</sup>	ASTM D4052	Test&Report	0.8770	Pass

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**Authorised singnatory**



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 <sup>2</sup> /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 <sup>3</sup>	ASTM D4052	Test & Report	0.8924	Pass

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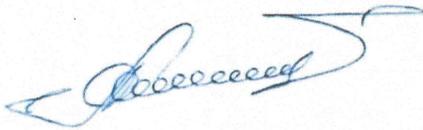
**Shelf life:** 5 years from the date of manufacture of the product if proper storage conditions are followed.

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**Authorised signatory**



**Allahverdieva Aytan**  
**Head of Laboratory**



**Isgandarli Nazrin**  
**Chemical Engineer**



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**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 <sup>2</sup> /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 <sup>3</sup>	ASTM D4052	Test & Report	0.8563

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Aytan Aliyeva  
**Head of Laboratory**



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

**Certificate No.:** 20251812  
**Date of issue:** 09/09/2025

**Test sample**

**Product:** AVTOIL TAP-15B  
**Batch number:** 25091812  
**Tank ID:** T41.3

**Manufacture date:** 09/09/2025  
**Date of sampling:** 09/09/2025  
**Date of analysis:** 09/09/2025

**Test result**

Parameters	Unit	Test method	Limit	Test result
Appearance	-	Visual	Bright & Clear	Bright & Clear
Kinematic viscosity at 100 °C	mm <sup>2</sup> /s	GOST 33	14.00-16.00	14.12
Viscosity index	-	GOST 25371	Min. 90	93
Water content	%	GOST 2477	Max. 0.05	None
Pour Point	°C	GOST 20287	Max. -20	-21
Color.	-	GOST 20284	Test & Report	3.8
Density - at 15 °C - at 20 °C	g/cm <sup>3</sup>	GOST 3900	Test & Report Max. 0.930	0.8932 0.8888

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**Approved by**

Aytan Aliyeva  
**Head of Laboratory**



ТОВ «СП ЮКОЙЛ». Завод технічних олів.  
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 №24148.02.01.1**  
**Олива для двотактних бензинових двигунів YUKO МОТОМІХ 2Т (ТС)**  
ТУ У 23.2-31852954-016-2004

Виробник: ТОВ «СП ЮКОЙЛ»  
Розфасовано: ТОВ «СП ЮКОЙЛ» за ТУ У 23.2-31852954-027:2006  
Клас в'язкості: **ISO-L-EGB**  
Клас експлуатаційних властивостей: **API TC, JASO FB**

Дата виготовлення: Червень.2024р.  
Тара: каністра 1л ПЕ  
Номер партії: 24148.14.06.24.02.

Ф.5 СТП014

Назва показника	Вимоги НД	Фактично	Метод випробувань
Густина при 20°C, кг/м <sup>3</sup> , не більше	920	867,2	ГОСТ 3900 або ASTM D1298
В'язкість кінематична при 100°C, мм <sup>2</sup> /с	8,0 - 12,0	8,86	ДСТУ ГОСТ 33 або ASTM D445
Індекс в'язкості, не менше	85	136	ДСТУ ГОСТ 25371 або ASTM D2270
Температура спалаху, визначена у відкритому тиглі, °C, не нижче	200	210	ДСТУ ГОСТ 4333 або ASTM D92
Температура застигання, °C, не вище	- 25	- 37	ГОСТ 20287 або ASTM D97
Масова частка механічних домішок, %	Відсутність	Відсутність	ГОСТ 6370
Масова частка води, %	Сліди	Сліди	ГОСТ 2477 або ASTM D95
Колір на колориметрі ЦНТ, одиниць ЦНТ, не більше	4,0	4,0	ГОСТ 20284 з доп. за п.6.3 цих ТУ або ASTM D1500
Випробування на корозію	Витримує	Витримує	ГОСТ 2917 або ASTM D130
Зольність сульфатна, %, не більше	0,3	0,17	ДСТУ ГОСТ 12417 або ASTM D874
Лужне число, мг КОН/г, не менше	0,8	0,93	ДСТУ 5094 або ГОСТ 11362 або ASTM D4739 або ASTM D2896
Колір	Червоний	Червоний	п. 6.4 цих ТУ

Паспорт якості дійсний тільки за наявності печатки.

Висновок: якість продукції відповідає вимогам ТУ У 23.2-31852954-016-2004 і ТУ У 23.2-31852954-027:2006

Гарантійний термін зберігання - 5 років  
М. П.

Начальник ВТК

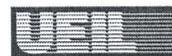


Анна ЛАРЧЕНКО

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Member of:





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

1.1 Product identifier	
Mixture name	Brake fluid DOT - 4
Trade name	Brake fluid DOT - 4
Identified uses	Brake fluid for all kind of trucks and passenger cars.
Uses advised against	Any other use.
Manufacturer	Cherkasy Autochemistry Plant LLC 18003, Ukraine, Cherkasy Vyacheslava Chornovola, 118, PO Box 729 tel/fax: +38 (0472) 64-61-60 e-mail: <a href="mailto:site@vamp.ua">site@vamp.ua</a> website: <a href="http://www.vamp.ua">www.vamp.ua</a>
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
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<b>Product identifier</b>	1,2-Ethanediol (Index # 603-027-00-1); 2,2'-oxydiethanol (Index # 603-140-00-6).
<b>Hazard pictograms</b>	
<b>Signal word</b>	Warning
<b>Hazard statements</b>	H302: Harmful if swallowed. H373: May cause damage to organs through prolonged or repeated exposure
<b>Precautionary statements</b>	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
<b>Additional information</b>	None
<b>2.3 Other hazards</b>	
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**

<b>Date: 03.11.2022</b>	<b>Version: 2.0</b>	<b>Supersedes version: -</b>	<b>Page 3 of 16</b>
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				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	
<b>In case of inhalation:</b>	Inhalation of product is not expected. Keep patient calm, remove to fresh air, seek medical attention.
<b>In case of eye contact:</b>	Wash affected eyes for at least 15 minutes under running water with eyelids held open. Consult ophthalmologist if irritation persists.
<b>In case of skin contact:</b>	Wash affected area thoroughly with soap and water.
<b>In case of ingestion:</b>	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	
<b>In case of inhalation</b>	Headache, dizziness, weakness. Due to the low vapor pressure under normal conditions, exposure to vapors is only toxicologically relevant when handling heated mixture.
<b>In case of eye contact</b>	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
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<b>In case of skin contact</b>	Slight irritation, redness, edema.
<b>In case of ingestion</b>	Headache, dizziness, weakness, vomiting, nausea, diarrhea, in case of severe poisoning: fainting, convulsions, damage to the kidneys.
<b>Information to physician and first aider.</b>	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
<b>First aid arsenal</b>	Universal medical kit with a set of drugs (in consultation with the medical department of the enterprise).
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
Immediate medical attention is not usually expected.	

## 5. FIREFIGHTING MEASURES

<b>5.1 Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water spray, dry powder, alcohol-resistant foam, carbon dioxide
<b>Unsuitable extinguishing media</b>	Do not use direct water jets as water destroys the foam.
<b>5.2 Special hazards arising from the substance or mixture</b>	
<b>Hazardous combustion products</b>	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.
<b>5.3 Advice for firefighters</b>	
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	
<b>Further information:</b> 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.

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>6.1.1. For non-emergency personnel</b>	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**

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	<p>material. Stay upwind. Keep non-involved personnel away from the area of spillage. Alert emergency personnel.</p> <p>Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares).</p>
<b>6.1.2. For emergency responders</b>	<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.</p> <p>If release is accompanied with fire – see Section 5.3</p>
<b>6.2 Environmental precautions</b>	
<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.</p> <p>Spills should be shielded with an earthen rampart.</p>	
<b>6.3 Methods and material for containment and cleaning up</b>	
<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.</p> <p>In case soil contamination in big quantities report to local authorities.</p> <p>For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).</p>	
<b>6.4 Reference to other section</b>	
<p>Information about personal precautions - see Section 8.</p> <p>Information about waste disposal - see Section 13.</p>	

## 7. HANDLING AND STORAGE

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



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

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>8.1. Control parameters</b>					
<b>Occupational exposure limits</b>					
Limit value type (country of origin)	Substance name	CAS-No.	Monitoring procedures	Occupational exposure limit value	
				Long term mg/m <sup>3</sup>	Short term mg/m <sup>3</sup>



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EU (OEL)	2-aminoethanol	141-43-5	Area Air Sampling	2,5	7,6
EU ( OEL)	1,2-Ethanediol	107-21-1	-	LTEL TWA =52	STEL =104
Germany ( DFG)	2,2'-oxydiethanol	111-46-6	-	LTEL TWA=44	STEL =176
<b>DNEL/DMEL values:</b>					
<b>Substance name</b>	<b>Worker</b>	<b>Consumer</b>	<b>Exposure route</b>	<b>Exposure frequency</b>	<b>Remark</b>
2-aminoethanol	DNEL = 1 mg/m <sup>3</sup>	DNEL = 0.18 mg/m <sup>3</sup>	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 <sup>3</sup>	7 mg/m <sup>3</sup>	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 <sup>3</sup>	12 mg/m <sup>3</sup>	inhalation	Long-term	systemic effects
	60 mg/m <sup>3</sup>	12 mg/m <sup>3</sup>	inhalation	Long-term	local effects
<b>PNEC values:</b>					
<b>Substance name</b>	<b>Environmental compartment</b>	<b>Value</b>		<b>Assessment factor</b>	<b>Remark</b>
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		-	



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	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**

<b>Respiratory protection</b>	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)
<b>Eye/face protection</b>	If potential exists for splashing or mist formation, use tightly fitting safety goggles (e.g. EN 166)
<b>Skin/body protection</b>	Wear working protective gloves (EN 374). Wear regular work clothing.

**8.2.3. Environmental exposure controls**

<b>Measures to prevent exposure</b>	Emissions from wastewaters from work processes should be checked to ensure they comply with the requirements of environmental protection legislation.
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**9. PHYSICAL AND CHEMICAL PROPERTIES.**

**9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	Oily liquid
<b>Colour</b>	Light yellow
<b>Odour</b>	Almost odorless



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



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<b>9.2.2. Other safety characteristics</b>	None
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### 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	The substance can react dangerously with strong oxidizing agents
<b>10.2 Chemical stability</b>	The product is stable upon appropriate handling and storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	oxidation in flame or excessive heat. Risk of explosion in contact with: perchloric acid
<b>10.4 Conditions to avoid</b>	Avoid heat, open flames, incompatible materials.
<b>10.5 Incompatible materials</b>	Oxidizing agents, bases and acids.
<b>10.6 Hazardous decomposition products</b>	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

<b>11.1 Information on toxicological effects.</b>					
<b>Toxicokinetics, metabolism and distribution</b>					
<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>					
<b>Acute toxicity</b>		The mixture is classified as Acute toxicity, Category 4, oral; respectively classified substances are present in it. Data on substances is presented below.			
<b>Substance name</b>	<b>Exposure route</b>	<b>Value</b>	<b>Exposure time period</b>	<b>Species</b>	<b>Method (as is, equivalent or similar)</b>
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	-



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	dermal	LD50 = 10600 mg/kg	-	Rabbits	-
2-aminoethanol	oral	LD50 = 1089 mg/kg	single dose	rat	OECD Guideline 401
	inhalation	LC50 = 1300 mg/m <sup>3</sup>	6 hours	rat	national standard method with acceptable restrictions
	dermal	LD50 = 2504 mg/kg	24 hours	rabbit	OECD Guideline 402
<b>Skin corrosion/irritation</b>		The mixture is not classified as skin corrosive or irritating. Data on substances presented below.			
<b>Substance name</b>	<b>Relevance</b>	<b>Result</b>	<b>Species</b>	<b>Method (as is, equivalent or similar)</b>	
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	
<b>Serious eye damage/irritation</b>		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			
<b>Substance name</b>	<b>Relevance</b>	<b>Result</b>	<b>Species</b>	<b>Method (as is, equivalent or similar)</b>	
2-aminoethanol	Yes	Irreversible effects on the eye Classified as Eye. Dam. 1.	Rabbit	OECD Guideline 405	
<b>Respiratory or skin sensitization</b>	The mixture is not classified as sensitizing as no respectively classified substances are present in it.				
<b>Germ cell mutagenicity</b>	The mixture is not classified as no respectively classified substances are present in it.				
<b>Carcinogenicity</b>	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				
<b>Reproductive toxicity</b>	The mixture is not classified as possessing reproductive toxicity as no respectively classified substances are present in it.				



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Data on substances presented below.				
Substance name	Relevance	Result	Species	Method (as is, equivalent or similar)
2-aminoethanol	Yes	NOAEL = 1 000 mg/kg bw/day	rat	OECD Guideline 415
2,2'-oxydiethanol		NOAEL (effects on fertility), subacute, 3060mg/kg bw/day	oral, mouse	-
<b>specific target organ toxicity — single exposure</b>	The mixture is not classified for specific target organ toxicity — single exposure as no respectively classified substances are present in it.			
<b>STOT-repeated exposure</b>	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
<b>Aspiration hazard</b>	The mixture is not classified for aspiration toxicity as no respectively classified substances are present in it.			
<b>Adverse health effects and symptoms associated with exposure</b>				
<b>In case of inhalation</b>	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			
<b>In case of eye contact</b>	no or little irritation			
<b>In case of skin contact</b>	no significant irritation; systemic effects must be expected if there is extensive contact with damaged skin.			
<b>In case of ingestion</b>	hardly any irritation, dose-dependent absorptive effects.			



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### 11.2 Information on other hazards

<b>Endocrine disrupting properties</b>	Any of the ingredient of mixture has not been identified as having endocrine disrupting properties.
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## 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).



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1,2-ethandiol: After 10 days > 90 % degradation was determined. (OECD 301A) 2,2-oxydiethanol: meet the criteria in a carbon dioxide evolution test according to OECD 301B. % Degradation of test substance: 90 – 100% after 28d
<b>12.3 Bioaccumulative potential</b>
No data available for mixture .
<b>12.4 Mobility in soil</b>
Study scientifically unjustified (substance is readily biodegradable)
<b>12.5 Results of PBT and vPvB assessment</b>
The substances in mixture do not meet the criteria for PBT or vPvB.
<b>12.6 Other adverse effects:</b>
None

### 13. DISPOSAL CONSIDERATIONS

<b>13.1. Waste treatment methods</b>	
<b>Appropriate disposal / Product</b>	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.
<b>Waste codes according to EWC</b>	none
<b>Appropriate disposal /Packaging</b>	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

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

### 15. REGULATORY INFORMATION



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

None

**15.2 Chemical Safety Assessment**

Chemical safety assessment has not been carried for the mixture.

**16. OTHER INFORMATION**

**Revision**

SDS has been issued for the first time.

**Abbreviations**

OEL – occupational exposure limit  
VLEP – valeurs limites d'exposition professionnelle- occupational exposure limit values  
VLE - valeurs limites d'exposition- occupational exposure limit values  
MAK - maximum workplace concentrations  
MAC - maximum workplace concentrations  
WEL- Workplace Exposure Limits  
AK - Permissible average concentration  
DNEL - derived no-effect level  
PNEC - predicted no effect concentration  
LD50 – lethal dose  
EC50 – half maximal effective concentration  
EC10 - half maximal effective concentration  
NOEL - no observed effect level  
NOEC - no observed effect concentration  
NOAEL – no observed adverse effect level  
PBT or vPvB - persistent, bioaccumulative and toxic or very persistent very bioaccumulative  
STOT SE – Specific target organ toxicity – single exposure  
STOT RE - Specific target organ toxicity – repeated exposure  
AF – Assessment factor

**Sources for data**

Suppliers' SDS for 1.2-ethandiol  
Suppliers' SDS for 2.2'- oxydiethanol  
ECHA database on registered substances  
GESTIS database on international limit values  
Specification TU U 20.5-37439067-006:2019

**Classification method**

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

**List of hazard statements and/or precautionary statements**

H302: Harmful if swallowed.



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<p>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.</p>
<p><b>Advice on training</b></p>
<p>Read carefully the SDS before using the product. Train personnel in the safe use of this product.</p>
<p>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.</p>

ТОВ «СП ЮКОЙЛ». Завод технічних олиव.  
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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

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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 №17199.01.01.1

### Мастило YUKO Літол-24

ТУ У 20.5-31852954-122:2023

Виробник: ТОВ «СП ЮКОЙЛ»  
Розфасовано: ТОВ «СП ЮКОЙЛ» за ТУ У 23.2-31852954-027:2006  
Клас NLGI **NLGI 3**  
Клас експлуатаційних властивостей: **K3K-40, ISO-L-XDCEA3**

Дата виготовлення: Квітень 2024р.  
Тара: відро 5л ПЕ  
Номер партії: 17199.26.04.24.01.

Ф.5 СТП014

Назва показника	Вимоги НД	Фактично	Метод випробувань
Зовнішній вигляд	Однорідна мазь гладкої структури від світло-жовтого до темно-коричневого кольору	Однорідна мазь гладкої структури жовтого кольору	ГСТУ 38.001 або п. 7.3 цих ТУ
Температура крапання, °С, не нижче	140	148	ГОСТ 6793 або ASTM D2265
Пенетрація при 25°С з перемішуванням, 0,1 мм	230-290	250	ГОСТ 5346, метод Б або ASTM D217
В'язкість ефективна при мінус 20°С та середньому градієнті швидкості деформації 10 с <sup>-1</sup> , Па·с, не більше	1 500	680	ГОСТ 7163 або ASTM D1092
Колоїдна стабільність: масова частка оливи, відпресованої від мастила, %, не більше	15,0	5,60	ГОСТ 7142
Межа міцності на зсув при 50°С, Па, не менше	150	266	ГОСТ 7143 метод Б
Випарність, %, не більше	5,0	0,48	ГОСТ 9566 з доп. за п. 7.4 цих ТУ
Корозійний вплив на пластині зі сталі	Витримує	Витримує	ГОСТ 9.080
Трибологічні характеристики на чотирикульковій машині при температурі (20 ± 5) °С:			ГОСТ 9490 або ASTM D2596
- навантаження зварювання (Рзв), Н, не менше	1 381	1 381	

Паспорт якості дійсний тільки за наявності печатки.

Висновок: якість продукції відповідає вимогам ТУ У 20.5-31852954-122:2023 і ТУ У 23.2-31852954-027:2006

Гарантійний термін зберігання - 5 років  
М. П.

Начальник ВТК

Анна ЛАРЧЕНКО





Изготовитель ООО "Украинская автохимическая корпорация",  
Украина, 08127, Киевская область, Бучанский р-н, с.Личанка, ул.  
Центральная, д. 43, корпус А

## ПАСПОРТ КАЧЕСТВА № 16-1834/2

**Жидкость охлаждающая  
низкозамерзающая марки А-38 красный  
Антифриз G12+  
ТУ У 24.6-14215951-001:2010 зі змінами 1-6**

Партия №: 23-769-01  
Масса нетто, кг указано на канистре

Дата фасовки  
Вид и тип тары

1/8/2026  
кан. п/е 1л, 5л, 10л

№	Название показателя	Норма	Факт	Метод испытания
1	Внешний вид	Однородная прозрачная жидкость без механических примесей. Цвет соответствует образцу-эталону	Соответствует	ГОСТ 28084-89, п.4.1
2	Плотность при температуре 20 °С, г/см <sup>3</sup> , не меньше	1.06	1.065	ГОСТ 18995.1-73, раздел 1
3	Фракционный состав:			ГОСТ 28084-89, п.4.4
	Точка кипения, °С, не ниже	108	108.0	
	Фракционный состав массовая доля жидкости, перегоняемая до температуры °С, не больше	60	52.0	
4	Коррозионное воздействие на металлы г/м2 сут., не больше *			ГОСТ 28084-89, п.4.5
	• алюминий	0.1	0.08	
	• чугун	0.1	0.07	
	• сталь	0.1	0.06	
	• медь	0.1	0.05	
	• латунь	0.1	0.06	
	• припой	0.2	0.12	
5	Вспениваемость:			ГОСТ 28084-89, п.4.6
	• Объем пены, см3 не больше	30	0.00	
	• Стойкость пены, с, не больше	3	0.00	
6	Содержание золы, %, не более	2.5	0.00	ГОСТ 28084-89
7	Набухание резины, %, не больше	5	0.9	ГОСТ 28084-89, п.4.7
8	Водородный показатель (рН), при 20 °С	7.5-11.0	8.6	ГОСТ 28084-89, п.4.8
9	Щелочность, см3 раствора КОН, не меньше	не нормируется	20.0	ГОСТ 28084-89, п.4.9
10	Температура застывания, °С, не выше	-39	-40.0	ТУ У 24.6-14215951-001:2010, п.6.13

\*Согласно протокола периодических испытаний № 23-68 от 02.11.2023

Гарантийный срок хранения – 5 лет

Вывод: соответствует требованиям ТУ У 24.6-14215951-001:2010 зі змінами 1-6

Ответственный за анализ Суржикова Н. Л.

Подпись

Контроль качества упаковки Бабенкова Т.Т.

Подпись



Печать



ТОВ «СП ЮКОЙЛ». Завод технічних олив.  
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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 №03037.03.01.1

### Мастило YUKO Графітне

ГОСТ 3333-80

Виробник ТОВ «СП ЮКОЙЛ»  
Розфасовано ТОВ «СП ЮКОЙЛ» за ТУ У 23.2-31852954-027:2006  
Клас NLGI **NLGI 2**  
Клас експлуатаційних властивостей: **OGF2G-20, ISO-L-XBAEA2**

Дата виготовлення: Січень 2025р.  
Тара: банка 1л жерсть  
Номер партії 03037.14.01.25.03.

Назва показника	Вимоги НД	Фактично	Метод випробувань
Зовнішній вигляд	Однорідна мазь від темно-коричневого до чорного кольору	Однорідна мазь чорного кольору	п. 4.2
Температура крапання, °С, не нижче	77	98,0	ГОСТ 6793
Пенетрація при 25°С з перемішуванням, мм·10 <sup>-1</sup> , не менше	250	275	ГОСТ 5346, метод В
Випробування на корозію на пластинках із сталі марки 40 або 45, або 50 по ГОСТ 1050-88	Витримує	Витримує	ГОСТ 9.080
Колоїдна стабільність, % виділеної оливи, не більше	5	5,0	ГОСТ 7142
Масова частка води, %, не більше	3	0,1	ГОСТ 2477
Межа міцності на зсув при 50°С, Па, не менше	100	340	ГОСТ 7143 (метод Б)
В'язкість ефективна при 0°С та середньому градієнті швидкості деформації 10 с <sup>-1</sup> , Па·с, не більше	100	100	ГОСТ 7163

Паспорт якості дійсний тільки за наявності печатки.

Висновок: якість продукції відповідає вимогам ГОСТ 3333-80 і ТУ У 23.2-31852954-027:2006

Гарантійний термін зберігання - 5 років

М. П.

Начальник



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Member of:



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

Printing date 07.04.2021

Version number 3

Revision: 07.04.2021

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

- **1.1 Product identifier**
- **Trade name:** **K2 SILICONE +204°C HIGH TEMP CLEAR**
- **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** Clear silicone
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Melle Sp. z o. o.  
Stary Staw 9  
63-400 OSTRÓW WLKP.  
POLAND
- **Further information obtainable from:**  
Product safety department.  
zakupy@inter-global.com.pl
- **1.4 Emergency telephone number:** During normal opening times: 0048/62 737 88 00

**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.  
P271 Use only outdoors or in a well-ventilated area.
- **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: consisting of the following components.

· **Dangerous components:**

EC number: 934-956-3	Węglowodory, C15-C20, n-alkany, izoalkany, cykliczne, <0,03% aromatów	<50%
	⚠ Asp. Tox. 1, H304	
CAS: 17689-77-9 EINECS: 241-677-4 Reg.nr.: 01-2119881778-15-XXXX	ethyltriacetoxysilane	<5%
	⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302, EUH014	

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

GB

(Contd. on page 2)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 07.04.2021

Version number 3

Revision: 07.04.2021

**Trade name: K2 SILICONE +204°C HIGH TEMP CLEAR**

(Contd. of page 1)

#### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
  - No special measures required.
  - Take affected persons out into the fresh air.
  - Personal protection for the First Aider.
- **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:**
  - CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.
  - Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **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** Cool endangered receptacles with water spray.

#### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **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.

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GB

**Safety data sheet**  
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Printing date 07.04.2021

Version number 3

Revision: 07.04.2021

**Trade name: K2 SILICONE +204°C HIGH TEMP CLEAR**

(Contd. of page 2)

- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **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**
- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Hand protection**  
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/face protection** Goggles recommended during refilling

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid
- **Colour:** Colourless
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** Undetermined.
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Flash point:** Not applicable.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Decomposition temperature:** Not determined.
- **pH** Not determined.

(Contd. on page 4)

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

Printing date 07.04.2021

Version number 3

Revision: 07.04.2021

**Trade name: K2 SILICONE +204°C HIGH TEMP CLEAR**

(Contd. of page 3)

· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Soluble.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density and/or relative density</b>	
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.

· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Pasty
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Solvent content:</b>	
· <b>VOC (EC)</b>	0.00 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.

· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

### **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.

(Contd. on page 5)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 07.04.2021

Version number 3

Revision: 07.04.2021

**Trade name: K2 SILICONE +204°C HIGH TEMP CLEAR**

· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

(Contd. of page 4)

### SECTION 11: Toxicological information

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

### 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.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 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 or ID number**

· **ADR, ADN, IMDG, IATA** Void

· **14.2 UN proper shipping name**

· **ADR, ADN, IMDG, IATA** Void

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class** Void

· **14.4 Packing group**

· **ADR, IMDG, IATA** Void

(Contd. on page 6)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 07.04.2021

Version number 3

Revision: 07.04.2021

**Trade name: K2 SILICONE +204°C HIGH TEMP CLEAR**

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· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Void

### 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.

· **National regulations:**

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

2. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

· **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**

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

EUH014 Reacts violently with water.

· **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

Acute Tox. 4: Acute toxicity – Category 4

(Contd. on page 7)

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

Printing date 07.04.2021

Version number 3

Revision: 07.04.2021

**Trade name: K2 SILICONE +204°C HIGH TEMP CLEAR**

(Contd. of page 6)

*Skin Corr. 1B: Skin corrosion/irritation – Category 1B*

*Asp. Tox. 1: Aspiration hazard – Category 1*

**\* Data compared to the previous version altered.**

*The section that were changed since the last version are marked with an asterisk on the left section number*

GB

# MATERIAL SAFETY DATA SHEET

Regulation(EC) No 1907/2006(REACH), Annex II

(COMMISSION REGULATION(EU) NO 453/2010)

Version 1

Issue Date 29 Dec 2023

Production Name antirust lubricant

Revision date 29 Dec 2023

## Section 1-Chemical product and company identification

Trade name: Antirust lubricant

Size: 100ml-450ml

Effective Date: 2023 12 18

MSDS#: 2020748858

Information department: Technology Department

Emergency information: TEL 86-20-82833999 if located outside of China

## Section 2 - Composition / Information on Ingredients

ITME	Ingredient Name	CAS Number	% weight
01	Refined white oil	8012-95-1	10%
02	Petroleum sulfonate	61789-85-3	5%
03	Pentaerythritol oleate	19321-40-5	15%
04	Propane	74-98-6	35%
05	Butane	106-97-8	35%

## Section 3 - Hazards Identification

### 3.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

flammable aerosols Category 1 -(H222)

Germ cell mutagenicity Category 1B -(H340)

Carcinogenicity Category 1B -(H350)

Reproductive Toxicity Category 2 -(H361)

Aspiration toxicity Category 1 -(H304)

Classification according to Directive 67/548/EEC or 1999/45/EC

Xn -Harmful

F+ -Extremely flammable

F+; R12

Carcinogenic, Category 1; R45

Mutagenic Category 2; R46

Xn; R65

Toxic for reproduction Category 3; R63mouth, throat and stomach.

### 3.2 Label elements Symbols/Pictograms



#### Signal word

Danger

#### Hazard Statements

H222 -Extremely flammable aerosol

H304 -May be fatal if swallowed and enters airways

H340 -May cause genetic defects

H350 -May cause cancer

H361 -Suspected of damaging fertility or the unborn child

P264 -Wash face, hands and any exposed skin thoroughly after handling

P273 -Avoid release to the environment

P301 + P310 -IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P331 -Do NOT induce vomiting

P405 -Store locked up

P501 -Dispose of contents/ container to an approved waste disposal plant

P210 -Keep away from heat/sparks/open flames/hot surfaces. -No smoking

P211 -Do not spray on an open flame or other ignition source

P251 -Pressurized container: Do not pierce or burn, even after use

P410 + P412 -Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 ° F

### 3.3 Other hazards

No information available

## Section 4 - First aid measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**FIRST AID - SKIN CONTACT:** Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**FIRST AID - INGESTION:** Get medical attention immediately. If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

## Section 5 - Fire-Fighting Measures

**Extinguishing Media:** Dry chemical, foam, carbon dioxide., sand . Water jets are not suitable for fire fighting.

**General Fire Hazards:** Flammable liquid. Do not spray near sources of ignition such as open flames, sparks, hot surfaces or burning cigarettes. Aerosol cans may explode if heated above 54 degrees Celsius.

**Fire-Fighting Equipment/Instructions:** Wear self-contained breathing apparatus. If possible remove aerosol containers from the vicinity of the fire. Otherwise keep containers as cool as possible by spraying with water from a protected position.

## Section 6 - Accidental Release Measures

**Containment Procedures:** Contain the discharge material. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

**Clean-Up Procedures:** Attempt to reclaim the free product, if this is possible. If molten product spilled, solidify and recover.

**Evacuation Procedures:** Isolate area. Keep unnecessary personnel away.

**Special Instructions:** Avoid inhalation of fumes from molten product. Avoid skin contact with molten resins. Wear appropriate protective equipment and clothing during clean-up. Do not allow the spilled product to enter public drainage systems or open water courses.

## Section 7 - Handling and Storage

**Procedures for Handling:** Avoid breathing fumes if this product is used at high temperatures. Keep away from potential sources of ignition. Wash hands after handling and before eating.

**Recommended Storage Methods:** Keep the container tightly closed and in a cool, well-ventilated place. Store away from strong oxidizers. Do not store this material in open and unlabeled containers.

## Section 8 - Exposure Controls / Personal Protection

### Exposure Guidelines:

A. General Product Information - If oil mists are generated, observe the OSHA exposure limit of 5 mg/m<sup>3</sup>.

B. Component Exposure Limits - No ACGIH, NIOSH or OSHA exposure guidelines listed for the product's components.

**Engineering Controls:** Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

**Eye / Face Protection:** Wear safety goggles or faceshield when working with melted material.

**Skin Protection:** Chemically resistant gloves with thermal protection when working with melted paraffin.

**Respiratory Protection:** Under normal conditions, respirator is not normally required.

**General:** Use good industrial hygiene practices.

## Section 9 - Physical and Chemical Properties

**Physical State:** liquid

**Appearance:** transparent

**Odor:** Not available

**Odor Threshold:** Not available

**Vapor Pressure:** Compressed gas

**Vapor Density:(water=1):**0.8

**Flash Point:**N/A

**Boiling Point:** >35°C

**Melting Point:** <0°C

**% Volatile :**40-60

**Evaporation Rate:** slow

**pH:** N/A

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable

**Hazardous Polymerization:** Hazard polymerization will not occur.

**Chemical Incompatibilities:** Strong oxidizing agents, strong acids and strong base

**Conditions to Avoid (Stability):** Avoid excessive heat and all sources of ignition.

**Hazardous Decomposition Products:** Carbon dioxide, carbon monoxide.

## Section 11- Toxicological Information

### Acute Toxicity / Target Organ Information:

A. General Product / Component Information - This material is typically inert. Paraffin fumes are a result of overheating product. Fumes are known to be mildly irritating to the nose, throat, and eyes.

B. Component LD50 / LC50 - No data available for product.

Epidemiology: No data available for product.

Carcinogenicity:

A. General Product / Component Information - Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.

B. Component Carcinogenicity Listings - None of this product's components are listed by ACGIH, IARC, NIOSH, NTP or OSHA.

**Teratogenicity / Reproductive Effects:** No data available for the product as a whole.

**Neurotoxicity:** No data available for the product as a whole.

**Mutagenicity:** No data available on this product as a whole.

**Other Information:** No other information available.

## Section 12 - Ecological Information

**Ecotoxicity:** No information is available on ecotoxicity of this product. Keep product out of sewers and waterways.

**Environmental Fate:** No information is available.

## Section 13 - Disposal Considerations

### U.S. EPA Waste Number & Descriptions:

A. General Product Information - Product as shipped does not meet the definition or characteristics of a hazardous waste.

B. Component Waste Numbers - No EPA Waste Numbers are applicable for this product's components.

**Disposal Instructions:** Incinerate the material under controlled conditions in an approved incinerator.

## Section 14 - Transport Information

**Proper Shipping Name:** Aerosol

**Hazard Class:** 2.1

**Identification number:** N/A

**ADR/RID class:** 2.1  
**IMDG Class:**IMO 2.1  
**ICAO/IATA Class:** 2.1  
**Packing Group:** II  
**EMS Number:** F-D S-D S-U  
**MFAG:** F-D S-D S-U  
**UN-Number:** 1950

## Section 15 - Regulatory Information

### U.S. Federal Regulatory Information:

- A. General Product Information - All components of this product are listed on the U.S. EPA TSCA Inventory.
- B. Component Information - None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) or CERCLA (40 CFR 302.4).

### State Regulations:

- A. General Product Information - No components require labeling under California Proposition 65.
- B. Component Information - None of this product's components are listed on the state lists from CA, FL, MA, MN, NJ, or PA.

### Other Regulations:

- A. General Product Information - All known (non-proprietary) components of this product are listed on the EINECS inventory of existing chemicals.
- B. Component Information - None of this product's components are listed on the Canadian Controlled Product Ingredient Disclosure List.

## Section 16 - Other Information

### This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Veslee be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Veslee has been advised of the possibility of such damages



## Wolver Turbo Active 5W-30 CK-4

### SPECIFICATIONS

Engine:	diesel
SAE:	5W-30
API:	CK-4 / SN
ACEA:	E9 / E7 / E6
JASO:	DH-2

### APPROVALS AND CONFORMITY

DTFR 15C110 (MB 228.51) DTFR 15C100 (MB 228.31) MAN M 3477/M 3775 Volvo VDS-4.5 Scania Low Ash  
Renault RLD-3, RLD-4 DAF Extended Drain Cummins CES 20086 CAT ECF-3 Deutz DQC III-10 LA  
Mack EOS-4.5

### EFFECTS

- Low SAPS content: Ideal for modern exhaust aftertreatment systems.
- High oxidative stability: Ensures extended service life.
- Piston cleanliness: Guarantees optimal engine performance.
- Euro 5/6 compliance: Designed for the latest environmental standards.

## TYPICALS

Kinematic viscosity at 100 °C, mm <sup>2</sup> /s	10.9
Viscosity Index, -	130
Pour Point, °C	-35
Dynamic Viscosity at -30 °C, mPa·s	6600
Base Number, mgKOH/g	9.0
Flash Point, °C	200
Density at 20 °C, kg/m <sup>3</sup>	895

## DESCRIPTION

**Wolver Turbo Active 5W-30 CK-4** is a premium-class engine oil for diesel engines in heavy-duty vehicles equipped with all modern aftertreatment systems such as DPF (diesel particulate filter), EGR (exhaust gas recirculation), SCR (selective catalytic reduction), CRT (continuously regenerating trap), DOC (diesel oxidation catalysts), which comply with Euro 5 and Euro 6 environmental standards.

Compliance with the **API CK-4** specification ensures piston cleanliness, high oxidative stability, reduced ash content, and extended service life. The enhanced properties of UHPD (Ultra High Performance Diesel) oil **Wolver Turbo Active 5W-30 CK-4** guarantee uninterrupted operation of your equipment even under the toughest operating conditions.

**Wolver Turbo Active 5W-30 CK-4** is a low sulphated ash, phosphorus, and sulfur (Low SAPS) oil, making it ideal for:

- Euro 5 and Euro 6 vehicles (e.g., Volvo FH4, DAF XF, Mercedes Actros MP4, Scania R).
- New buses and long-haul trucks with DPF.
- Mixed fleets with various emission standards. It ensures safe economy for modern engines.

### PRODUCT DESCRIPTION

Premium Diesel 5W-40 is a low SAPS high performance fully synthetic heavy duty diesel engine oil designed for use in trucks, buses, stationary engines, construction equipment, farming machinery, boats and other on-road & off-road applications running on diesel fuels with ultra-low sulfur content requiring a 5W-40, API CJ-4 engine oil. Perfectly formulated with the right selection of components for an effective excellent wear control, soot handling and reliable oil stability in engines running under severe operating conditions. For engines fitted with or without Diesel Particulate Filters (DPF), Exhaust Gas Recirculation (EGR) and SCR NOx reduction systems. Effectively maintains an outstanding performance to increase operating efficiency and extend life of the critical engine parts. Also suitable for use in gasoline engines requiring API SN oil.



Premium Diesel 5W-40 is enhanced with unique anti-friction technology, ZFM™ (Zero Friction Molecular), to considerably reduce friction and wear of highly loaded engine parts that are exposed to intensive duty cycles and high

operating temperatures. Outstanding low temperature pumpability for quick oil circulation in the engine system, minimizing wear and extending the engine life.

### APPLICATION

Recommended for mixed fleets applications – diesel and gasoline engines. Suitable for classic cars, trucks, light commercial vehicles, agricultural machineries and other on-road & off-road systems requiring a 5W-40 API CJ-4 or API SN/SM/SL or ACEA E9 or ACEA E7 engine oils.

For diesel engines meeting EURO, I, II, III, IV, V and VI emission requirements. Backward compatible with API CI-4 PLUS, CI-4, CH-4, CG-4, CF-4, and older.

### WARRANTY

Premium Diesel 5W-40 meets or exceeds the OEM's warranty requirements of high-speed, 4-stroke diesel engines of 2010 exhaust emission standards where API CJ-4 and older diesel engine oils specs is required. Suitable for gasoline engines requiring API SN engine

oil. TOTACHI® guarantees full compliance on the written specifications indicated on product labels.

### CUSTOMER BENEFITS:

- **Durable Emission Control Systems**  
High-level performance and protection of after treatment devices such as DPF, EGR and SCR systems in diesel engines using ultra low sulfur fuel.
- **Extended Oil Drain**  
Superior protection against soot build up in cylinders, pistons, rings, and valve trains to extend oil drain intervals according to the OEM requirements.
- **Longer Engine Life**  
Strong oil film strength at high operating temperatures to reduce engine scuffing and bore polishing, improving equipment reliability & lower overall maintenance cost.
- **Managed Inventory costs**  
The product meets the leading manufactures specification requirements, which makes it possible to enjoy simplified inventory in mixed fleets.
- **Improved low temperature properties**  
Low temperature oil flow properties offer rapid circulation, minimizing engine wear during cold starts.
- **Low Oil Consumption**  
Well maintained viscosity across different operating temperatures to minimize evaporation or oil loss.



### MEETS SPECIFICATIONS & REQUIREMENTS OF:

- API CJ-4/SN
- ACEA E9/E7
- MB 228.31
- MAN M3275
- CAT ECF-3
- RENAULT VI RLD-3
- CUMMINS CES 20081
  
- VOLVO VDS-4
- MACK EO-O PREMIUM PLUS
- DDC POWER GUARD 93K218

Suitable for use in various OEMs for heavy loaded high-speed four stroke diesel and gasoline engines such as MERCEDES-BENZ, MAN, CATERPILLAR, RENAULT, CUMMINS, VOLVO, MACK, DETROIT, BOBCAT, HOWO,

HINO, KOMATSU, JCB and other on-road/off-road vehicles.

Before using this product, ensure it is consistent with OEM's recommendations for the equipment operating conditions and customer's maintenance practices.

### TYPICAL TEST DATA

CHARACTERISTICS	UNITS	VALUES	STANDARDS
SAE Grade	-	5W-40	SAE J300
Kinematic viscosity at: 40°C	cSt	78.43	ASTM D445
100°C	cSt	13.30	ASTM D445
Viscosity index	-	173	ASTM D2270
Cranking viscosity at -30°C	mPa-s	5805	ASTM D5293
Color	-	3.5	ASTM D1500
Flash point	°C	216	ASTM D92
Pour point	°C	-42	ASTM D6892
Density at 30 °C	kg/L	0.8455	ASTM D4052
Total Base number	mgKOH/g	9.0	ASTM D2896

### STORAGE AND HANDLING GUIDELINES

- Avoid exposing products to direct sunlight.
- Store in cool and dry places. Avoid exposing products to moisture.
- It is highly recommended to store drums indoors or under cover on pallets and racks.

### HEALTH, SAFETY & ENVIRONMENT PROTECTION

Information on health, safety and environment protection is described in the product Safety Data Sheet (SDS). The SDS file contains details on potential hazards, precautions and first aid measures, as well as information on environmental impact and disposal of used products.

TOTACHI INDUSTRIAL CO., LTD. disclaims any liability in case the product is used with violation of these instructions and warnings or it is not used for its intended purpose. Before using product other than intended, consult your local TOTACHI® distributor.



## 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 <sup>2</sup> /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 <sup>3</sup>	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

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60L - Barrel

4400

426036094400

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208L - Barrel

4399

426036094399

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ТОВ «СП ЮКОЙЛ». Завод технічних олів.  
Україна, 09100, Київська обл., Білоцерківський р-н, місто Біла Церква, вул.Пулля 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 №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 <sup>3</sup> , не більше	970	919,0	ГОСТ 3900 або ASTM D1298
В'язкість кінематична при 100°C, мм <sup>2</sup> /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



**AVIZ SANITAR**  
**PENTRU PRODUSELE ALIMENTARE ȘI NEALIMENTARE Nr. P-17027/2023**  
*Санитарное заключение для пищевых и непищевых продуктов*  
**din/от 14 aprilie 2023**

**Prin prezentul aviz sanitar se confirmă că producerea, importul, utilizarea și desfacerea produselor / echipamentelor**  
*Настоящим санитарным заключением подтверждается что производство, ввоз, использование и реализация продукции / оборудования*  
Soluție de spălat parbriz "IARNA" -20 C, -30 C; Soluție de spălat parbriz "VARA", lichid pentru aprinderea focului

**sunt conforme Regulamentului (lor) sanitar (e) / соответствуют санитарному (ым) регламенту (ам) (se va indica denumirea completă a**  
Regulamentului (lor) sanitar (e) / указать полное наименование санитарного (ых) регламента (ов))  
SF 41279445-001:2020, IT MD 41279445-001:2020, SM GOST R 51696:2003 Produse chimice de uz casnic

**Organizația-producătoare/importatoare, țara de origine / организация произв./импортер, страна происхождения**

"AMID-AUTO" SRL, Republica Moldova

**Destinatarul avizului sanitar / получатель санитарного заключения**

AMID-AUTO S.R.L. , Republica Moldova, mun. Chișinău, sec. Botanica, str. Independenței, 42, ap./of. 20

**Temei pentru recunoașterea conformității produselor Regulamentului (lor) sanitar (e) menționat (e) a servit /**

*Основанием для признания продукции указанному (ым) санитарному (ым) регламенту (ам) послужило*

Demers, autorizație sanitară de funcționare, standard de firmă, instrucțiune tehnologică, rețeta, raport de încercări nr.69 din 17.05.2022, rapoarte a încercărilor de laborator nr.51007043-51007046 din 06.04.2023, din 11.04.2023

(a enumera documentele de însoțire, buletinele de analiză / перечислить сопроводительные док., протоколы исслед.)

**Caracteristica sanitară a produselor / санитарная характеристика продукции:**

**Parametrii (factorii) / показатели (факторы)**

**Normativul sanitar / санитарный норматив**

conform rapoartelor încercărilor de laborator nr.51007043-51007046 din 06.04.2023, din 11.04.2023

**Domeniu de utilizare / Область применения:**

întreținere auto

**Condițiile necesare de utilizare, depozitare, transportare, măsurile de securitate / Необходимые условия использования, хранения, транспортировки, меры безопасности:**

producerea, plasarea pe piață în condițiile respectării legislației în vigoare în Republica Moldova

**AVIZUL SANITAR este valabil pînă la / Санитарное заключение действительно до: 30.04.2026**

**DIRECTORUL AGENȚIEI NAȚIONALE PENTRU SĂNĂTATE PUBLICĂ**

Digitally signed by Jelamschi Nicolae

Date: 2023.04.14 11:46:18 EEST

Reason: MoldSign Signature

Location: Moldova

**Nicolae Jelamschi**

