

ТОВАРИСТВО З ОБМЕЖЕНОЮ  
ВІДПОВІДАЛЬНІСТЮ «ЛЮКАС  
ЛУБРИКАНТС»  
61058, Україна, м. Харків, вул.  
Роллана Ромен, буд.12  
e-mail:  
lukas.lubricants@gmail.com



LIMITED LIABILITY COMPANY  
"LuKaS lubricants"  
12 Rollan Romen Str., Kharkiv,  
Ukraine, 61058  
e-mail:  
lukas.lubricants@gmail.com

### ПАСПОРТ ЯКОСТІ НА ПРОДУКЦІЮ:

#### Гальмівна рідина BARS EXTRA DOT-4

Виробник: ТОВ «ЛЮКАС ЛУБРИКАНТС», Україна

Дата виготовлення : січень 2026 р.

Тип тари: пластикові каністри 0,5 л, 1 л.

№	Назва показника	Норма	Факт	Метод випробувань
1.	Зовнішній вигляд і колір	Однорідна прозора рідина	відповідає	ТУ У 24.6-00174131-168 2001 змін №1:2014
2.	В'язкість кінематична, мм <sup>2</sup> /с: - при (100 ±0,5)°С, не менше	1,5	2,2	ТУ У 24.6-00174131-168 2001 змін №1:2014
3.	Температура кипіння при тиску 101,3 кПа, °С, не менше	190	212	ТУ У 24.6-00174131-168 2001 змін №1:2014
4.	Температура кипіння зволоженої рідини при тиску 101,3 кПа, °С, не менше	155	233	ТУ У 24.6-00174131-168 2001 змін №1:2014
5.	Стабільність при високій температурі, °С, не більше	3	1	ТУ У 24.6-00174131-168 2001 змін №1:2014
6.	Взаємодія з металами при температурі (100 ±2) °С протягом (120 ±2) год.:			ТУ У 24.6-00174131-168 2001 змін №1:2014
	а) зміна маси пластинок, мг/см <sup>2</sup> , не більше			
	- біла жерсть	0,2	0,11	
	- сталь Ст10	0,2	0,09	
	- алюмінієвий сплав Д-16	0,1	0,09	
	- чавун СЧ 18-35	0,2	0,11	
	- латунь Л-63	0,4	0,22	
	- мідь М-1	0,4	0,22	
	б) значення рН після випробувань, одиниць рН, у межах	7,0-11,5	9,6	
7.	Масова частка механічних домішок:	відсутність	відсутність	ТУ У 24.6-00174131-168 2001 змін №1:2014

Гарантійний термін зберігання – 5 років

м.п.

Головний технолог



Дюбін Р.Г.

# Product Data Sheet

## Maximum™ M-10G2K

Engine oil

### Product description

Maximum™ M-10G2K stands as a monograde diesel engine oil formulated using premium mineral base oils and a thoughtfully curated additive blend, delivering resilient protection against wear and corrosion. Its versatile applicability extends to a range of off-highway uses, as well as older on-highway vehicles.

### Application

Maximum™ M-10G2K is recommended for high-power naturally aspirated or moderately supercharged diesel engines in automotive vehicles and tractors

### Features & Benefits

- Enhanced acid control system
- Improved detergency characteristics
- Control of high-temperature deposit formation
- Excellent thermal and oxidation stability
- Superior anti-wear protection

### Typical Properties

Property	Unit	Test method	Typical value
Density at 15°C	g/cm <sup>3</sup>	GOST 3900	0.893
Kinematic Viscosity at 100°C	cst	GOST 33	11
Kinematic Viscosity at 40°C	cst	GOST 33	95
Viscosity Index	-	GOST 25371	101
Flash Point (COC)	°C	GOST 4333	246
Pour Point	°C	GOST 20287	-18

Typical property characteristics are based on current production. Whilst future production will conform to Maximum™ specifications, variations in these characteristics may occur.

## Performance claims

- API CC
- SAE 30

## Health, Safety & Environment

- **Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: [www.maximumlube.com](http://www.maximumlube.com)

- **Protect the Environment**

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

## Available pack sizes

- 1 L Canister plastic
- 4 L Canister plastic
- 5 L Canister plastic
- 6 L Canister plastic
- 7 L Canister plastic
- 20 L Canister plastic
- 30 L Canister plastic
- 60 L Drum sheet metal
- 200 L Drum sheet metal
- 1000 L Container

## Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

## Notes

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by ALCO LLC for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our sales specialists if you require any further information.





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.: 2026032  
Date of issue: 07/01/2026

**Test sample**

Product: MAXIMUM M-10G2K  
Batch number: 2601032  
Tank ID: T45.4

Manufacture date: 07/01/2026  
Date of sampling: 07/01/2026  
Date of analysis: 07/01/2026

**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	10.50-11.50	10.55
Viscosity index	-	GOST 25371	Min. 85	104
Water content	%	GOST 2477	Max. 0.05	None
Pour Point	°C	GOST 20287	Max. -15	<-24
Color, with a dilution of 15:85, units of the CNT	-	GOST 20284	Max. 4.0	1.4
Density - at 15 °C - at 20 °C	g/cm <sup>3</sup>	GOST 3900	Test & Report Max. 0.905	0.8833 0.8789

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.

Quality Assurance Laboratory  
Address: 1, Kimyachilar st., SCIP., Sumgait, Azerbaijan, AZ5002  
Email: lab@azlub.com

Page 1 of 2

**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**

# Product Data Sheet

## Maximum™ ATF DX-IID

Automotive transmission fluid

### Product description

Maximum™ ATF DX-IID stands as a premium fluid for automatic transmissions, tailored for vehicles with torque converters and power shift transmissions. Its distinct formula minimizes wear, extends the lifespan of the gearbox, and enhances fuel efficiency, guaranteeing smooth operation of automatic gearboxes.

### Application

Maximum™ ATF DX-IID can be used in most passenger cars, forklift trucks, and buses of European, American, or Japanese origin where Dexron II-D type ATF is recommended. It is also suitable for certain power steering systems, torque converters, change-gearboxes, fluid clutches, and non-complicated hydraulic systems.

### Features & Benefits

- Improved low-temperature fluidity
- Outstanding thermal and oxidation stability
- Excellent friction characteristics
- Exceptional detergent-dispersant properties
- Compatibility with all common seal materials

### Typical Properties

Property	Unit	Test method	Typical value
Kinematic Viscosity at 100°C	cst	ASTM D 445	8
Kinematic Viscosity at 40°C	cst	ASTM D 445	48.65
Viscosity Index	-	ASTM D 2270	136
Flash Point (COC)	°C	ASTM D 92	230
Pour Point	°C	ASTM D 97	-39
Density at 15°C	g/cm <sup>3</sup>	ASTM D 4052	0.867

Typical property characteristics are based on current production. Whilst future production will conform to Maximum™ specifications, variations in these characteristics may occur.

## Performance claims

- Allison C4
- Allison TES 389
- GM Dexron IID
- GM Dexron IIE
- GM Dexron TASA (Typ A/Suffix A)
- Voith H55. 6335.XX (G 607)
- MAN 339 Typ. L1
- MAN 339 Typ. L2
- MAN 339 Typ. Z1
- MAN 339 Typ. V1
- DTFR 13C100 (MB 236.1)
- Volvo CE97340
- Volvo CE97341
- ZF TE-ML 03D
- ZF TE-ML 05L
- ZF TE-ML 21L
- ZF TE-ML 09
- ZF TE-ML 11A
- ZF TE-ML 11B
- ZF TE-ML 04D
- ZF TE-ML 14A
- ZF TE-ML 17C

## Health, Safety & Environment

- **Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: [www.maximumlube.com](http://www.maximumlube.com)

- **Protect the Environment**

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

## Available pack sizes

- 1 L Canister plastic
- 4 L Canister plastic
- 5 L Canister plastic
- 6 L Canister plastic
- 7 L Canister plastic
- 20 L Canister plastic
- 30 L Canister plastic
- 60 L Drum sheet metal
- 200 L Drum sheet metal
- 1000 L Container

## Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

## Notes

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# Product Data Sheet

## Maximum™ ATF DX-IIIH

Automotive transmission fluid

### Product description

Maximum™ ATF DX-IIIH serves as a premium lubricant, perfectly suited for automatic gearboxes and hydraulic clutches that demand a Dexron III-type fluid. It ensures flawless gearbox performance in challenging conditions and diverse temperatures, providing unparalleled reliability and steadfast consistency

### Application

Maximum™ ATF DX-IIIH is suitable for all automatic transmissions with and without controlled torque converter lockup clutch. It can also be used in hydraulic and power steering systems.

### Features & Benefits

- Exceptional thermal and oxidation stability
- High viscosity index
- Outstanding anti-wear properties
- Favorable friction behavior
- Confident corrosion protection
- Superior low temperature pumpability and circulation
- Excellent foam control
- Better seal compatibility

### Typical Properties

Property	Unit	Test method	Typical value
Kinematic Viscosity at 100°C	cst	ASTM D 445	8.2
Kinematic Viscosity at 40°C	cst	ASTM D 445	49.85
Viscosity Index	-	ASTM D 2270	138
Flash Point (COC)	°C	ASTM D 92	230
Pour Point	°C	ASTM D 97	-39
Density at 15°C	g/cm <sup>3</sup>	ASTM D 4052	0.869

Typical property characteristics are based on current production. Whilst future production will conform to Maximum™ specifications, variations in these characteristics may occur.

## Performance claims

- Allison C4
- Allison TES 389
- GM Dexron IID
- GM Dexron IIIG
- GM Dexron IIH
- GM Dexron TASA (Typ A/Suffix A)
- Voith H55. 6335.XX (G 607)
- MAN 339 Typ. L1, L2
- MAN 339 Typ. Z1
- MAN 339 Typ. V1
- MB 236.1, 236.9
- Volvo CE97340
- Volvo CE97341
- ZF TE-ML 02F
- ZF TE-ML 03D
- ZF TE-ML 05L
- ZF TE-ML 21L
- ZF TE-ML 09
- ZF TE-ML 11A, 11B
- ZF TE-ML 04D
- ZF TE-ML 14A
- ZF TE-ML 17C

## Health, Safety & Environment

- **Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: [www.maximumlube.com](http://www.maximumlube.com)

- **Protect the Environment**

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

## Available pack sizes

- 1 L Canister plastic
- 4 L Canister plastic
- 5 L Canister plastic
- 6 L Canister plastic
- 7 L Canister plastic
- 20 L Canister plastic
- 30 L Canister plastic
- 60 L Drum sheet metal
- 200 L Drum sheet metal
- 1000 L Container

## Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

## Notes

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# Product Data Sheet

## Maximum™ GuardMax 15W-40 SG/CD

Engine oil

### Product description

Maximum™ GuardMax 15W-40 SG/CD stands as a mineral-derived, versatile, all-season motor oil meticulously engineered to ensure top-tier engine protection and purification. Crafted with high-quality base stocks and an innovative additive system, it guarantees optimal lubrication under a diverse array of operational circumstances.

### Application

Maximum™ GuardMax 15W-40 SG/CD is suitable for use in automotive gasoline and diesel engines where the manufacturer recommends an API SG/CD or earlier specification 15W-40 lubricant.

### Features & Benefits

- Provides excellent protection against wear and extends engine life
- Helps to prevent the formation of deposits and sludge, keeping engines clean and running smoothly
- Protects engine parts against rust and corrosion
- Offers high thermal stability and resistance to oxidation, ensuring long-lasting engine performance

### Typical Properties

Property	Unit	Test method	Typical value
Kinematic Viscosity at 100°C	cst	ASTM D 445	14.8
Kinematic Viscosity at 40°C	cst	ASTM D 445	121.4
Viscosity Index	-	ASTM D 2270	125
Flash Point, COC	°C	ASTM D 92	230
Pour Point	°C	ASTM D 97	-27
TBN	mg KOH/g	ASTM D 2896	4
Sulphated Ash Content	%	ASTM D 874	0.55
Density at 15°C	g/ml	ASTM D 4052	0.882

Typical property characteristics are based on current production. Whilst future production will conform to Maximum™ specifications, variations in these characteristics may occur.

## Performance claims

- API SG/CD

## Health, Safety & Environment

- **Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: [www.maximumlube.com](http://www.maximumlube.com)

- **Protect the Environment**

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

## Available pack sizes

- 1 L Canister plastic
- 4 L Canister plastic
- 5 L Canister plastic
- 6 L Canister plastic
- 7 L Canister plastic
- 20 L Canister plastic
- 30 L Canister plastic
- 60 L Drum sheet metal
- 200 L Drum sheet metal
- 1000 L Container

## Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

## Notes

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# Product Data Sheet

## Maximum™ TransMax 80W-90 GL-4

Transmission oil

### Product description

Maximum™ TransMax 80W-90 GL-4 stands as a multi-seasonal gear oil with versatility, incorporating high-quality base stocks and an inventive blend of additives. It guarantees extended protection against wear, promoting the durability of equipment and reducing the frequency and expenses associated with maintenance.

### Application

Maximum™ TransMax 80W-90 GL-4 is suitable for manual transmissions, differentials, power takeoff units and final drives found on passenger cars, trucks, and off highway vehicles used in construction, farm, forestry and mining operations.

### Features & Benefits

- Superior thermal and oxidation stability
- Improved low temperature protection
- Excellent resistance for wear, corrosion and foaming
- Better extreme pressure properties

### Typical Properties

Property	Unit	Test method	Typical value
Density at 15°C	g/cm <sup>3</sup>	ASTM D 4052	0.890
Kinematic Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D 445	14.80
Kinematic Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D 445	157.6
Viscosity Index	-	ASTM D 2270	92
Flash Point (COC)	°C	ASTM D 92	240
Pour Point	°C	ASTM D 97	-18

Typical property characteristics are based on current production. Whilst future production will conform to Maximum™ specifications, variations in these characteristics may occur.

## Performance claims

- API GL-4
- MIL-L-2105 D
- ZF TE-ML 08/16A/17A/19A

## Health, Safety & Environment

- **Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: [www.maximumlube.com](http://www.maximumlube.com)

- **Protect the Environment**

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

## Available pack sizes

- 1 L Canister plastic
- 4 L Canister plastic
- 5 L Canister plastic
- 6 L Canister plastic
- 7 L Canister plastic
- 20 L Canister plastic
- 30 L Canister plastic
- 60 L Drum sheet metal
- 200 L Drum sheet metal
- 1000 L Container

## Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

## Notes

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

Certificate No.: 2026011  
Date of issue: 06/01/2026

### Test sample

Product: Maximum™ TransMax 80W-90 GL-4  
Batch number: 2601011  
Tank ID: T41.4

Manufacture date: 06/01/2026  
Date of sampling: 06/01/2026  
Date of analysis: 06/01/2026

### 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	13.50-18.50	14.51
Viscosity Index	-	ASTM D1500	Min. 90	98
Water content	%	ASTM D95	Max. 0.05	None
Pour Point	°C	ASTM D7346	Max. -21	-27
Color	-	ASTM D1500	Test & Report	3.4
Density at 15 °C	g/cm <sup>3</sup>	ASTM D4052	Test & Report	0.8937

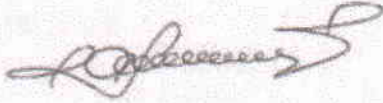
ALCO QUALITY ASSURANCE LABORATORY accredited by AzAK for AZS ISO/IEC 17025:2020 at test laboratory.

**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.

**Approved by****Aytan Aliyeva  
Head of Laboratory**

# Product Data Sheet

## Maximum™ TransMax 80W-90 GL-5

Transmission oil

### Product description

Maximum™ TransMax 80W-90 GL-5 is a superior multi-grade gear oil blended with a selected package of additives to deliver excellent shifting performance, favorable low-temperature fluidity, and the ability to maintain viscosity even under high temperatures. Specifically designed for use in manual transmissions, differentials, and final drives, it excels in environments where extreme pressures and shock loading are expected.

### Application

Maximum™ TransMax 80W-90 GL-5 is suitable for automotive gearboxes, axles, differentials, transaxles, and hypoid gear sets in motorcycles, passenger cars, commercial vehicles, off-road construction, and agricultural equipment where GL-5 oil with a viscosity of SAE 80W-90 is recommended.

### Features & Benefits

- Superior thermal and oxidation stability
- Excellent rust and corrosion protection
- Effective low temperature lubrication
- Better compatibility with typical automotive seals and gaskets
- Reduced wear and longer component life

### Typical Properties

Property	Unit	Test method	Typical value
Density at 15°C	g/cm <sup>3</sup>	ASTM D 4052	0.891
Kinematic Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D 445	15
Kinematic Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D 445	151.9
Viscosity Index	-	ASTM D 2270	99
Flash Point (COC)	°C	ASTM D 92	230
Pour Point	°C	ASTM D 97	-18

Typical property characteristics are based on current production. Whilst future production will conform to Maximum™ specifications, variations in these characteristics may occur.

## Performance claims

- API GL-5
- MIL-L 2105 D
- MAN 342 M2
- ZF TE-ML 05A/07A/12E/16B/16C/16D/17B/19B/21A

## Health, Safety & Environment

- **Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: [www.maximumlube.com](http://www.maximumlube.com)

- **Protect the Environment**

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

## Available pack sizes

- 1 L Canister plastic
- 4 L Canister plastic
- 5 L Canister plastic
- 6 L Canister plastic
- 7 L Canister plastic
- 20 L Canister plastic
- 30 L Canister plastic
- 60 L Drum sheet metal
- 200 L Drum sheet metal
- 1000 L Container

## Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

## Notes

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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.: 2026058  
Date of issue: 12/01/2026

**Test sample**

Product: MAXIMUM TAD17  
Batch number: 2601058  
Tank ID: T41.4

Manufacture date: 12/01/2026  
Date of sampling: 12/01/2026  
Date of analysis: 12/01/2026

**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	Min. 17.50	18.83
Viscosity Index	-	GOST 25371	Min. 90	94
Water content	%	GOST 2477	Max. 0.05	None
Flash Point, COC	°C	GOST 4333	Min. 200	234
Pour Point	°C	GOST 20287	Max. -25	-25
Color	-	GOST 20284	Test & Report	4.0
Density - at 15 °C - at 20 °C	g/cm <sup>3</sup>	GOST 3900	Test & Report Max. 0.907	0.9020 0.8976

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:**

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**Approved by****Aytan Aliyeva  
Head of Laboratory**

# Product Data Sheet

## Maximum™ TAD-17

Transmission oil

### Product description

Maximum™ TAD-17 is a versatile all-season mineral gear oil designed for the lubrication of various gear types in vehicles and mobile machinery, including bevel, cylindrical, worm, and hypoid gears. It provides an effective protective shield, ensuring optimal performance and durability by guarding against wear, corrosion, scoring, and other potential damages.

### Application

Maximum™ TAD-17 can be used in manual transmissions, transfer cases, and gearboxes, as well as drive axles with hypoid final drives operating under high loads and at high sliding speeds in gear mesh, where API GL-5 level oil is recommended.

### Features & Benefits

- Features high thermal and oxidative stability
- Offers excellent antiwear properties and reliable corrosion protection
- Prevents foaming, maintaining a strong lubricating oil film
- Sustains performance over long-term use

### Typical Properties

Property	Unit	Test method	Typical value
Density at 15°C	g/cm <sup>3</sup>	GOST 3900	0.897
Kinematic Viscosity at 100°C	mm <sup>2</sup> /s	GOST 33	17.5
Kinematic Viscosity at 40°C	mm <sup>2</sup> /s	GOST 33	181
Viscosity Index	-	GOST 25371	103
Flash Point (COC)	°C	GOST 4333	220
Pour Point	°C	GOST 20287	-30

Typical property characteristics are based on current production. Whilst future production will conform to Maximum™ specifications, variations in these characteristics may occur.

## Performance claims

- API GL-5
- SAE 80W-90
- GOST 23652-73

## Health, Safety & Environment

- **Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: [www.maximumlube.com](http://www.maximumlube.com)

- **Protect the Environment**

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

## Available pack sizes

- 1 L Canister plastic
- 4 L Canister plastic
- 5 L Canister plastic
- 6 L Canister plastic
- 7 L Canister plastic
- 20 L Canister plastic
- 30 L Canister plastic
- 60 L Drum sheet metal
- 200 L Drum sheet metal
- 1000 L Container

## Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

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## SCHEDA TECNICA

### **SINT SAE 10W-40**

Lubrificante motore PCMO

#### SPECIFICHE

ACEA A3/B4 API SN/CF  
MB 229.1 MB 229.3 MB 229.5 MB 226.5  
VW 501.00 VW 502.00 VW 505.00  
RENAULT RN0700 RN0710 PSA B712300  
FIAT 9.55535-G2 FIAT 9.55535-D2

#### DESCRIZIONE TECNICA

Lubrificante idroisomerizzato GPIII, formulato per assicurare una protezione superiore e per garantire eccezionali prestazioni in motori di nuova concezione alimentati sia a benzina che diesel. L'additivazione garantisce la massima protezione delle superfici interne del motore garantendo un'ottima stabilità, disperdenza, detergenza e l'allungamento dell'estensione dei cambi d'olio.

Ad alta temperatura offre una migliore protezione rispetto a quella offerta da oli a viscosità elevata garantendo la sicurezza di poter chiedere le massime prestazioni ai motori altamente performanti di ultima generazione. Alla stessa maniera assicura un'eccellente fluidità alle basse temperature e una migliore efficienza prestazionale.

L'utilizzo di tale prodotto assicura:

- Funzione di contrasto al fenomeno dell'ossidazione molecolare del lubrificante;
- Massima stabilità termica;
- Estensione dei cambi d'olio;
- Massima detergenza;
- Elevate proprietà disperdenti anticorrosive e antiruggine.

*Per ulteriori dettagli, rivolgersi all'ufficio tecnico*

## SCHEDA TECNICA

### SINT SAE 10W-40

#### *Caratteristiche Tipiche*

Proprietà	Unità	Metodo	Valori Medi
Colore	-	Visivo	Ambra
Aspetto	-	Visivo	limpido
Densità	Kg/dm <sup>3</sup>	ASTMD7042	0,86
Viscosità 40°C	cSt	ASTMD445	93,6
Viscosità 100°C	cSt	ASTMD445	14,1
Indice di viscosità	-	ASTMD2270	155
Flash Point	°C	ASTMD92	231
Punto di congelamento	°C	ASTMD97	-31

#### MODALITA' D'USO

Utilizzare secondo le raccomandazioni riportate nel libretto d'uso e manutenzione fornito dal produttore. Conservare il prodotto in luogo fresco e asciutto, al riparo dai raggi diretti del sole e a temperature non superiori ai 60°C.

#### SICUREZZA E AMBIENTE

Utilizzare in conformità alle raccomandazioni fornite nella Scheda di Sicurezza. Informazioni aggiuntive su MSDS

## TECHNICAL DATA SHEET

### SINT SAE 10W-40

Engine Lubricant PCMO

#### SPECIFICS

ACEA A3/B4 API SN/CF  
MB 229.1 MB 229.3 MB 229.5 MB 226.5  
VW 501.00 VW 502.00 VW 505.00  
RENAULT RN0700 RN0710 PSA B712300  
FIAT 9.55535-G2 FIAT 9.55535-D2

#### TECHNICAL DESCRIPTION

Hydroisomerised GPIII Lubricant has been specifically developed to provide superior protection and ensure exceptional performance in next-generation gasoline and diesel engines. The additive composition of this product guarantees maximum protection of internal engine surfaces, offering excellent stability, dispersancy, detergency, and extended oil change intervals.

At high temperatures, it provides superior protection compared to high-viscosity oils, ensuring the safety required to meet the demands of the latest high-performance engines. Similarly, it ensures excellent fluidity at low temperatures and improved operational efficiency.

The use of this product ensures the following benefits:

- Effective counteraction to the molecular oxidation of the lubricant;
- Maximum thermal stability;
- Extended oil change intervals;
- Superior detergency;
- High-level dispersant, anti-corrosion, and anti-rust properties.

For further details, please contact the technical department.

## TECHNICAL DATA SHEET

### SINT SAE 10W-40

#### *Typical characteristics*

Properties	Unit	Method	Average values
Colour	-	Visual	Amber
Appearance	-	Visual	Limpid
Density	Kg/dm <sup>3</sup>	ASTMD7042	0,86
Viscosity 40°C	cSt	ASTMD445	93,6
Viscosity 100°C	cSt	ASTMD445	14,1
Viscosity Index	-	ASTMD2270	155
Flash Point	°C	ASTMD92	231
Freezing point	°C	ASTMD97	-31

#### MODE OF USE

Use in accordance with the recommendations in the user and maintenance manual supplied by the manufacturer. Store in a cool, dry place, protected from direct sunlight and at temperatures not exceeding 60°C (140°F).

#### SAFETY AND ENVIRONMENT

Use in accordance with the recommendations provided in the Safety Data Sheet. Additional information on MSDS.

## FICHE TECHNIQUE

### **SINT SAE 10W-40**

*Lubrifiant moteur PCMO*

#### SPÉCIFICATIONS

ACEA A3/B4 API SN/CF  
MB 229.1 MB 229.3 MB 229.5 MB 226.5  
VW 501.00 VW 502.00 VW 505.00  
RENAULT RN0700 RN0710 PSA B712300  
FIAT 9.55535-G2 FIAT 9.55535-D2

#### DESCRIPTION TECHNIQUE

Lubrifiant hydroisomérisé GPIII, formulé pour assurer une protection supérieure et des performances exceptionnelles dans les nouveaux moteurs à essence et diesel. Cet additif assure une protection maximale des surfaces internes du moteur en offrant une stabilité, une dispersion et une propreté excellentes et en prolongeant les intervalles de vidange. À haute température, il offre une meilleure protection que les huiles à haute viscosité, ce qui permet de répondre aux exigences de performance les plus élevées de la dernière génération de moteurs à haute performance. De même, elle assure une excellente fluidité à basse température et améliore l'efficacité des performances.

L'utilisation de ce produit permet de

- Contrecarrer le phénomène d'oxydation moléculaire du lubrifiant;
- Une stabilité thermique maximale;
- L'allongement de la durée des vidanges;
- Une détergence maximale;
- des propriétés de dispersion anticorrosion et antirouille élevées.

*Pour plus de détails, contactez le département technique*

## FICHE TECHNIQUE

### SINT SAE 10W-40

#### *Caractéristiques typiques*

Propriétés	Unité	Méthode	Valeurs moyennes
Couleur	-	visuel	Ambre
Apparence	-	visuel	limpide
Densité	Kg/dm <sup>3</sup>	ASTMD7042	0,86
Viscosité 40°C	cSt	ASTMD445	93,6
Viscosité 100°C	cSt	ASTMD445	14,1
indice de viscosité	-	ASTMD2270	155
Flash Point	°C	ASTMD92	231
Point de congélation	°C	ASTMD97	-31

#### MODE D'EMPLOI

Utiliser conformément aux recommandations indiquées dans le manuel d'utilisation et d'entretien fourni par le fabricant. Conserver le produit dans un endroit frais, sec et à l'abri des rayons directs du soleil, avec une température ne dépassant pas 60 °C.

#### SÉCURITÉ ET ENVIRONNEMENT

Utiliser conformément aux recommandations fournies dans la fiche de données de sécurité. Informations supplémentaires disponibles dans la FDS (Fiche de Données de Sécurité).



**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.:** 20252417  
**Date of issue:** 27/11/2025

**Test sample**

**Product:** Maximum TurboMax 10W40 CI-4/SL  
**Batch number:** 25112417  
**Tank ID:** T41.2

**Manufacture date:** 27/11/2025  
**Date of sampling:** 27/11/2025  
**Date of analysis:** 27/11/2025

**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	12.50-16.30	14.15
Viscosity index	-	ASTM D2270	Min. 135	149
Water content	%	ASTM D95	Max. 0.05	None
Pour Point	°C	ASTM D7346	Max. -30	-39
Color	-	ASTM D1500	Test & Report	2.3
TBN	mg KOH/g	ASTM D2896	Min. 9.0	9.26
Density at 15 °C	g/cm <sup>3</sup>	ASTM D4052	Test & Report	0.8759

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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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**Approved by**



**Aytan Aliyeva  
Head of Laboratory**



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.: 20252723  
Date of issue: 29/12/2025

**Test sample**

Product: Maximum™ TurboMax 15W-40 CI-4/SL  
Batch number: 25122723  
Tank ID: T41.2

Manufacture date: 29/12/2025  
Date of sampling: 29/12/2025  
Date of analysis: 29/12/2025

**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	12.50-16.30	14.59
Viscosity index	-	ASTM D2270	Min. 125	148
Water content	%	ASTM D95	Max. 0.05	None
Pour Point	°C	ASTM D7346	Max. -27	-33
Color	-	ASTM D1500	Test & Report	2.8
TBN	mg KOH/g	ASTM D2896	Min. 9.0	10.10
Density at 15 °C	g/cm <sup>3</sup>	ASTM D4052	Test & Report	0.8739

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**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****ALCO QUALITY ASSURANCE LABORATORY  
TEST REPORT**  
Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21**AZAK**  
AZERBAIJAN ACCREDITATION CENTER**Notes & Instructions:**

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**Approved by****Aytan Aliyeva  
Head of Laboratory**

Quality Assurance Laboratory

Address: 1, Kimyachilar st., SCIP., Sumgait, Azerbaijan, AZ5002

Email: lab@azlub.com

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Forma No: F5.10-03/ Release date: 12.01.2024/ Rev. No: 00

## **SAFETY DATA SHEET**

According to Regulation (EC) No 1907 / 2006, Annex II as amended by Commission Regulation (EU) 2020/878

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

#### **1.1. Product identifier**

Product name Maximum™ TurboMax 15W-40 CI-4/SL  
Product code MM/EO-0059

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

Identified uses Lubricant - engine oil  
Uses advised against No additional information available

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

Manufacturer ALCO LLC  
3, Vali Mammadov st., Sabail dist.,  
AZ1095, Baku, Azerbaijan  
Tel.: +994 12 505 68 10  
Email: sds@azlub.com

#### **1.4. Emergency telephone number**

Unified emergency number: 112

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

#### **2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) 1272/2008 (CLP)

Physical hazards Not classified.  
Health Hazards Not classified  
Environmental hazards Not classified.

#### **2.2. Label elements**

Labelling according to Regulation (EC) 1272/2008 (CLP)

Not applicable

#### **2.3. Other hazards**

This mixture does not meet the criteria for vPvB or PBT according to Regulation (EC) No. 1907/2006, Annex XIII.

This mixture is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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

#### **3.1. Substances**

Not applicable

## SAFETY DATA SHEET

According to Regulation (EC) No 1907 / 2006, Annex II as amended by Commission Regulation (EU) 2020/878

### 3.2. Mixtures

Distillates (petroleum), solvent-refined heavy paraffinic (Note L)	
CAS No.	64741-88-4
EC No.	265-090-8
Index No.	649-454-00-7
REACH No.	01-2119488706-23-0056
Weight (%)	>75 - <85
Classification according to Regulation (EC) No. 1272/2008	Not classified
SCL, M-factor, ATE	-

Residual oils (petroleum), solvent-dewaxed (Note L)	
CAS No.	64742-62-7
EC No.	265-166-0
Index No.	649-471-00-X
REACH No.	01-2119480472-38-0041
Weight (%)	>5 - <10
Classification according to Regulation (EC) No. 1272/2008	Not classified
SCL, M-factor, ATE	-

Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated	
CAS No.	-
EC No.	953-650-0
Index No.	-
REACH No.	-
Weight (%)	0.5-1
Classification according to Regulation (EC) No. 1272/2008	Repr. 2, H361D; Skin Sens. 1B, H317
SCL, M-factor, ATE	Repr. 2, H361D: C>17.5

**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.

For full text of H-statement, see SECTION 16.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

##### General information

Never pour anything into the mouth of an unconscious person!  
In all cases of doubt, or when symptoms persist, seek medical advice.

##### Inhalation

Remove casualty to well-ventilated area and keep at rest in a position comfortable for breathing.  
If the casualty is unconscious and not breathing - ensure that there is no obstruction to breathing and provide artificial respiration by trained personnel.  
If the casualty is unconscious and breathing - place in recovery position. Administer oxygen if necessary.  
Get medical attention if breathing remains difficult.

## **SAFETY DATA SHEET**

According to Regulation (EC) No 1907 / 2006, Annex II as amended by Commission Regulation (EU) 2020/878

### **Ingestion**

If swallowed, immediately call a Poison Centre or doctor/ physician.  
Do not induce vomiting. If vomiting does occur, have causality lean forward to reduce risk of aspiration.

### **Skin contact**

Remove contaminated, saturated clothing immediately.  
Wash area with soap and water for 10 to 15 minutes.  
Get medical attention if adverse health effects persist or are severe.

### **Eye contact**

Remove contact lenses.  
Irrigate exposed eyes with plenty of water for at least 15 minutes.  
Keep eyes wide open while rinsing  
Get medical attention if irritation occurs.

### **4.2. Most important symptoms and effects, both acute and delayed**

No data available

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

Treat symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

Suitable extinguishing media	Foam, water fog, carbon dioxide, dry chemical powder
Unsuitable extinguishing media	High volume water jet

### **5.2. Special hazards arising from the substance or mixture**

Hazardous combustion products	Carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> , etc.)
-------------------------------	--

### **5.3. Advice for firefighters**

In case of a large fire or in confined or poorly ventilated spaces wear full fire-resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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

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

#### **For non-emergency personnel**

Stop or contain leak at the source if safe to do so. Avoid direct contact with released material. Stay upwind.  
Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.

It is recommended to eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares).  
If required, notify relevant authorities according to all applicable regulations.

#### **For emergency responders**

Small spillages: normal antistatic working clothes are usually adequate.

Large spillages: full body suit of chemically resistant and antistatic material.

Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons (gloves made of PVA are not water-resistant, and are not suitable for emergency use).

Work helmet. Antistatic non-skid safety shoes or boots.

Goggles or face shield, if splashes or contact with eyes is possible or anticipated.

## **SAFETY DATA SHEET**

According to Regulation (EC) No 1907 / 2006, Annex II as amended by Commission Regulation (EU) 2020/878

Respiratory protection will be necessary only in special cases (e.g. formation of mists). 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 predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.

### **6.2. Environmental precautions**

Avoid discharge into drains, sewers, watercourses, other bodies of water and soil.  
Inform the relevant authorities if environmental pollution occurs.

### **6.3. Methods and material for containment and cleaning up**

For containment	Impound and recover large spill by mixing it with inert granular solids.
For cleaning up	Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr.
Other information	Spill area may be slippery. Use suitable disposal containers.

### **6.4. Reference to other sections**

For further information on personal protection and waste disposal, see Section 8 and Section 13 respectively.

### **6.5. Additional information**

No additional information available

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

### **7.1. Precautions for safe handling**

#### **Protective measures**

Take precautionary measures against static electricity.  
Avoid splash filling of bulk volumes when handling hot liquid product.  
Avoid contact with skin.  
Avoid breathing fume/mist.  
Prevent the risk of slipping.  
Use personal protective equipment as required.

#### **Advice on general occupational hygiene**

Ensure that proper housekeeping measures are in place.  
Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets.  
Keep away from food and beverages.  
Do not eat, drink or smoke when using this product.  
Wash the hands thoroughly after handling.  
Change contaminated clothes at the end of working shift.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Technical measures and storage conditions**

Ensure that all relevant regulations regarding handling and storage facilities of combustible products are followed.  
Store in dry, well ventilated area.  
Keep away from sparks/open flames/hot surfaces. Do not smoke.  
Store separately from oxidising agents.

#### **Packaging materials**

Recommended materials: For containers, or container linings use mild steel, stainless steel.  
Unsuitable materials: Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Compatibility should be checked with the manufacturer.

## **SAFETY DATA SHEET**

According to Regulation (EC) No 1907 / 2006, Annex II as amended by Commission Regulation (EU) 2020/878

### **Container advice if the product is supplied in containers**

Keep only in the original container or in a suitable container for this kind of product.  
Keep containers tightly closed and properly labelled.  
Empty containers may contain combustible product residues. Do not weld, solder, drill, cut or perform similar operations unless they have been properly cleaned.

### **Requirements for storage rooms and vessels:**

Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation.  
Storage installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills.  
Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.

### **7.3. Specific end use(s)**

No additional information available

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

### **8.1. Control parameters**

#### **8.1.1. National occupational exposure and biological limit values**

<b>Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)</b>	
<b>EU - Occupational Exposure Limits</b>	
IOELV TWA	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract < 3% mm)
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract < 3% mm)
ACGIH OEL STEL	10 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract < 3% mm)

<b>Residual oils (petroleum), solvent-dewaxed (64742-62-7)</b>	
<b>EU - Occupational Exposure Limits</b>	
IOELV TWA	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract < 3% mm)
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract < 3% mm)
ACGIH OEL STEL	10 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract < 3% mm)

#### **8.1.2. Recommended monitoring procedures**

Monitoring procedures should be chosen according to the indications set by national authorities or labour contracts.  
Refer to relevant legislation and in any case to the good practice of industrial hygiene.

#### **8.1.3. Air contaminants formed**

No additional information available

#### **8.1.4. DNEL and PNEC**

No additional information available

#### **8.1.5. Control banding**

No additional information available

## SAFETY DATA SHEET

According to Regulation (EC) No 1907 / 2006, Annex II as amended by Commission Regulation (EU) 2020/878

### **8.2. Exposure controls**

#### **8.2.1. Appropriate engineering controls**

Ensure good ventilation of the work station.

Before entering storage, tanks and commencing any operation in a confined area, carry out an adequate clean-up, and check the atmosphere for oxygen content, flammability, and the presence of sulphur compounds.

#### **8.2.2. Personal protection equipment**

##### **Personal protective equipment**

Gloves, protective clothing, safety glasses, dust/aerosol mask.

##### **Personal protective equipment symbol(s):**



##### **8.2.2.1. Eye and face protection**

When there is a risk of contact with the eyes, use safety goggles or other means of protection (face shield).  
If necessary, refer to national standards or to EN 166 standard.

##### **8.2.2.2. Skin protection**

###### **Skin and body protection**

Use of protective clothing is good industrial practice.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin.

Overalls should be laundered on a regular basis.

When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required

###### **Hand protection**

When there is a risk of contact with the skin, use hydrocarbon-resistant, felt-lined gloves.

Adequate materials: nitrile (NBR) or PVC with a protection index > 5 (permeation time > 240 min.).

Use gloves respecting all the conditions and within the limits set by the manufacturer.

Replace gloves immediately in case of cuts, holes or other signs of damages or degradation.

If necessary, refer to EN 374 standard.

##### **8.2.2.3. Respiratory protection**

Independently from other possible actions (technical modifications, operating procedures, and other means to limit the exposure of workers), personal protection equipment can be used according to necessity.

Open or well-ventilated spaces; in presence of oil mists and if the product is handled without adequate containment means: use full or half-face masks with filter for mists/aerosols (P).

In case there is a significant presence of vapours (e.g. through handling at high temperature), use full or half-face masks with a filter for organic vapours (A), and H<sub>2</sub>S (B) where applicable. (EN 136/140/145).

Combined gas/dust mask with filter type: EN 14387.

Closed or confined areas (e.g. tank interiors): the use of protection measures for airways (masks or self-contained breathing apparatus), must be assessed according to the specific activity, as well as level and duration of predicted exposure (EN 136/140/145).

Approved respiratory protection equipment shall be used in spaces where hydrogen sulphide may accumulate: full face mask with cartridge/filter type "B" (grey for inorganic vapours including H<sub>2</sub>S) or self-contained breathing apparatus (SCBA) (EN 136/140/145)

## SAFETY DATA SHEET

According to Regulation (EC) No 1907 / 2006, Annex II as amended by Commission Regulation (EU) 2020/878

### 8.2.2.4. Thermal hazards

If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated.

### 8.2.3. Environmental exposure controls

Avoid release to the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state	Liquid
Colour	Brown
Odour	Characteristic
Odour threshold	No data available
Melting point	-30°C (pour point)
Freezing point	No data available
Initial boiling point and boiling range	No data available
Flammability	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Flash point	230°C (COC)
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	111.8 mm <sup>2</sup> /s (40 °C)
Kinematic viscosity	15.00 mm <sup>2</sup> /s (100 °C)
Solubility	Insoluble
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	No data available
Density and / or relative density	0.879 g/cm <sup>3</sup> (20 °C)
Relative vapour density	No data available
Particle characteristics	Not applicable

### 9.2. Other information

No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No specific reactivity hazards associated with this product.

### 10.2. Chemical stability

Stable under normal ambient temperature and when used as recommended.

### 10.3. Possibility of hazardous reactions

No potentially hazardous reactions known.

**SAFETY DATA SHEET**

According to Regulation (EC) No 1907 / 2006, Annex II as amended by Commission Regulation (EU) 2020/878

**10.4. Conditions to avoid**

Keep away from sparks/open flames/hot surfaces and sources of ignition.

**10.5. Incompatible materials**

Oxidising agents

**10.6. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**Acute toxicity**

Acute oral toxicity Not classified (Based on available data the classification criteria are not met.)

Acute inhalation toxicity Not classified (Based on available data the classification criteria are not met)

Acute dermal toxicity Not classified (Based on available data the classification criteria are not met)

**Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)**

LD50 - oral - rat > 5000 mg/kg body weight (OECD 401)

LC50 - inhalation - rat - 4 hours > 5.53 mg/l (OECD 403)

LD50 - dermal - rabbit > 5000 mg (OECD 402)

**Residual oils (petroleum), solvent-dewaxed (64742-62-7)**

LD50 - oral - rat > 5000 mg/kg body weight (OECD 401)

LC50 - inhalation - rat - 4 hours > 5.53 mg/l (OECD 403)

LD50 - dermal - rabbit > 5000 mg (OECD 402)

**Skin corrosion/irritation** Not classified (Based on available data the classification criteria are not met)

**Serious eye damage/irritation** Not classified (Based on available data the classification criteria are not met)

**Respiratory or skin sensitization** Not classified (Based on available data the classification criteria are not met)

**Germ cell mutagenicity** Not classified (Based on available data the classification criteria are not met)

**Carcinogenicity** Not classified (Based on available data the classification criteria are not met)

**Reproductive toxicity** Not classified (Based on available data the classification criteria are not met)

**STOT - single exposure** Not classified (Based on available data the classification criteria are not met)

**STOT - repeated exposure** Not classified (Based on available data the classification criteria are not met)

**Aspiration hazard** Not classified (Based on available data the classification criteria are not met)

## SAFETY DATA SHEET

According to Regulation (EC) No 1907 / 2006, Annex II as amended by Commission Regulation (EU) 2020/878

### 11.2. Information on other hazards

#### 11.2.1 Endocrine disrupting properties

This mixture is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

#### 11.2.2. Other information

No additional information available

## **SECTION 12: ECOLOGICAL INFORMATION**

### 12.1. Toxicity

<b>Ecology - general</b>	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
<b>Ecology - air</b>	The product has a low vapour pressure. A significant exposure may happen only if the product is used at high temperature, or in case of sprays and mists.
<b>Ecology - water</b>	The product is not soluble in water. It floats on water and forms a film on the surface. The damage to aquatic organisms is of mechanical kind (immobilization and entrapment)
<b>Hazardous to the aquatic environment, short-term (acute)</b>	Not classified (Based on available data the classification criteria are not met)
<b>Hazardous to the aquatic environment, long-term (chronic)</b>	Not classified (Based on available data the classification criteria are not met)

<b>Distillates (petroleum), sol-vent-refined heavy paraffinic (64741-88-4)</b>	
LL50 - Fish	>= 100 mg/l (Pimephales promelas, 96h) (OECD 203)
EL50 - Crustacea	> 10000 mg/l (Daphnia magna, 48h) (ECD 202)
NOEL - Crustacea	10 mg/l (Daphnia magna, 21 day) (OECD 211)
NOEL - Algae	>= 100 mg/l (Desmodesmus subspicatus, 72h) (OECD 201)

<b>Residual oils (petroleum), solvent-dewaxed (64742-62-7)</b>	
LL50 - Fish	>= 100 mg/l (Pimephales promelas, 96h) (OECD 203)
EL50 - Crustacea	> 10000 mg/l (Daphnia magna, 48h) (ECD 202)
NOEL - Crustacea	10 mg/l (Daphnia magna, 21 day) (OECD 211)
NOEL - Algae	>= 100 mg/l (Desmodesmus subspicatus, 72h) (OECD 201)

### 12.2. Persistence and degradability

<b>Maximum™ TurboMax 15W-40 CI-4/SL</b>	
Abiotic degradation	No data available
Physical and photo-chemical elimination	No data available
Biodegradation	Not readily biodegradable (OECD 301B)

## SAFETY DATA SHEET

According to Regulation (EC) No 1907 / 2006, Annex II as amended by Commission Regulation (EU) 2020/878

<b>Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)</b>	
Abiotic degradation	No data available
Physical and photo-chemical elimination	No data available
Biodegradation	Not readily biodegradable (OECD 301B)

<b>Residual oils (petroleum), solvent-dewaxed (64742-62-7)</b>	
Abiotic degradation	No data available
Physical and photo-chemical elimination	No data available
Biodegradation	Not readily biodegradable (OECD 301B)

### 12.3. Bioaccumulative potential

<b>Maximum™ TurboMax 15W-40 CI-4/SL</b>	
Partition coefficient n-octanol/water (Log Pow)	No data available
Bioconcentration Factor (BCF)	No data available

<b>Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	No data available
Bioconcentration Factor (BCF)	No data available

<b>Residual oils (petroleum), solvent-dewaxed (64742-62-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	No data available
Bioconcentration Factor (BCF)	No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This product does not meet the criteria for vPvB or PBT according to Regulation (EC) No. 1907/2006, Annex XIII.

### 12.6. Endocrine disrupting properties

This product is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### 13.1.1. Product/packaging disposal

Where possible, arrange for product to be recycled.

Empty the packaging completely prior to disposal.

Empty containers may contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been cleaned, and declared safe.

Dispose of packaging that cannot be cleaned in the same manner as the product.

**SAFETY DATA SHEET**

According to Regulation (EC) No 1907 / 2006, Annex II as amended by Commission Regulation (EU) 2020/878

**Waste codes / waste designations according to LoW**

Waste code	Waste designation
13 02 05	Mineral-based non-chlorinated engine, gear and lubricating oils
15 01 01	Paper and cardboard packaging
15 01 02	Plastic packaging
15 01 04	Metallic packaging

Deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

**13.1.2. Waste treatment - relevant information**

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**13.1.3. Sewage disposal - relevant information**

Do not discharge into drains or the environment.

**13.1.4. Other disposal recommendations**

No additional information available.

**SECTION 14: TRANSPORT INFORMATION**

**General**

This product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

**14.6. Special precautions for user**

**Overland transport**

Not regulated

## **SAFETY DATA SHEET**

According to Regulation (EC) No 1907 / 2006, Annex II as amended by Commission Regulation (EU) 2020/878

### **Transport by sea**

Not regulated

### **Air transport**

Not regulated

### **Inland waterway transport**

Not regulated

### **Rail transport**

Not regulated

### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

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## **SECTION 15: REGULATORY INFORMATION**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **15.1.1. EU regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances

VOC content: 0 %

#### **15.1.2. National regulations**

No additional information available

### **15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

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## **SECTION 16: OTHER INFORMATION**

### **Abbreviations and acronyms used in the safety data sheet**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

## **SAFETY DATA SHEET**

According to Regulation (EC) No 1907 / 2006, Annex II as amended by Commission Regulation (EU) 2020/878

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

IATA: International Air Transport Association.

ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

CAS: Chemical Abstracts Service.

ATE: Acute Toxicity Estimate.

LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.

LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).

EC<sub>50</sub>: 50% of maximal Effective Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

SDS: Safety Data Sheet

DMEL: Derived Minimal Effect level

DNEL: Derived-No Effect Level

EN: European Standard

PNEC: Predicted No-Effect Concentration

BCF: Bioconcentration Factor

CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006

### **Hazard Statements in full**

H317 May cause an allergic skin reaction.

H361 Suspected of damaging the unborn child

### **Notice to reader**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. ALCO LLC shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact ALCO LLC to ensure that this document is the most current available. Alteration of this document is strictly prohibited.



Ploiesti, strada Mihai Bravu nr. 278A

[office@axatrade.ro](mailto:office@axatrade.ro)

+40747026417

[www.axatrade.ro](http://www.axatrade.ro)

### Ulei hidraulic HLP 46 HLP46/T-40

No.	Parametri	H46	Metoda de analiza
1	Viscozitate cinematica la 40°C	46	ASTM D445
2	Viscozitate cinematica la 100°C	6,3	ASTM D445
3	Indice de viscozitate ,min	102	ASTM D2270
4	Punct de curgere	-6	ASTM D 97-17B
5	Punct de inflamabilitate, COC, °C, min	210	ASIM D92-18
6	Densitate la 15°C	0,868	SR EN ISO 3838-2004



AXA Trade Lube