

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

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

**Certificate No.:** 2025407  
**Date of issue:** 06/03/2025

**Test sample**

**Product:** AVTOIL HYDRAULIC OIL HLP 46  
**Batch number:** 2503407  
**Tank ID:** T41.2

**Manufacture date:** 06/03/2025  
**Date of sampling:** 06/03/2025  
**Date of analysis:** 06/03/2025

**Test result**

Parameters	Unit	Test method	Limit	Test result
Appearance	-	Visual	Bright & Clear	Bright & Clear
Kinematic viscosity at 40 °C	mm <sup>2</sup> /s	ASTM D445	41.4-50.6	47.14
Viscosity index	-	ASTM D2270	Min. 90	100
Water content	%	ASTM D95	Max. 0.05	None
Pour Point	°C	ASTM D7346	Max. -24	-30
Color	-	ASTM D1500	Test & Report	1.4
Density at 15 °C	g/cm <sup>3</sup>	ASTM D4052	Test & Report	0.8757

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

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

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



**ALCO QUALITY ASSURANCE LABORATORY  
TEST REPORT**

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



**Notes & Instructions:**

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

**Approved by**

**Aytan Allahverdiyeva  
Head of Laboratory**



	<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>	
---	--	---

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

**Certificate No.:** 2024864  
**Date of issue:** 05/06/2024

**Test sample**

**Product:** AVTOIL ATF III RED  
**Batch number:** 2406864  
**Tank ID:** T41.1

**Manufacture date:** 05/06/2024  
**Date of sampling:** 05/06/2024  
**Date of analysis:** 05/06/2024

**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	Min. 7.000	8.374	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 185	236	Pass
Color	-	ASTM D1500	RED	RED	Pass
Density at 15 °C	g/cm <sup>3</sup>	ASTM D4052	Test & Report	0.8747	Pass

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

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

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

**Notes & Instructions:**

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

**Authorised signatory**



Allahverdiyeva Aytan  
Head of Laboratory



Isgandarli Nazrin  
Lead Chemical Engineer





## MANNOL Dexron VI 8207

Универсальное всесезонное синтетическое трансмиссионное масло (ATF) для автоматических коробок передач, гидротрансформаторов, гидравлических систем рулевого управления, гидравлических сцеплений автомобилей и других гидравлических устройств, в том числе работающих в тяжелых условиях в грузовых автомобилях и во внедорожной технике. Обеспечивает бесперебойную работу АКПП, гарантирует минимальный износ, продолжительный срок службы трансмиссий и экономию топлива. Разработано на основании требований концернов GM и Ford.

Свойства продукта:

- Маловязкая синтетическая основа высочайшего качества со стабильно высоким индексом вязкости в комбинации с многофункциональным пакетом присадок сохраняет все свои свойства в широком диапазоне температур: обеспечивает хорошие смазочные свойства при низких (-45 °C и ниже) температурах зимой и обеспечивает стабильную масляную плёнку при экстремальных нагрузках и температурах летом;
- Высокотехнологичная комбинация присадок обеспечивает отличные антифрикционные свойства для зубчатых зацеплений и непревзойдённые фрикционные свойства для фрикционных элементов, что обеспечивает существенную экономию топлива, плавное и четкое без рывков переключение передач в любых условиях вождения и увеличение срока службы самой АКПП и всех элементов трансмиссии. Обеспечивает слаженную и плавную работу сцеплений. Предотвращает задиры;
- Обладает термоокислительной и химической стабильностью и стойкостью к высокотемпературной термической деградации на протяжении всего срока эксплуатации. Это позволяет снизить образование шлама, лака, нагара и других углеродистых отложений, увеличить интервал замены масла и обеспечить долговечность деталей трансмиссии, что снижает затраты на обслуживание техники;
- Эффективно защищает от коррозии металлические детали из черных и цветных сплавов (особенно радиаторы) как в процессе работы, так и в нерабочем состоянии. Отлично совместимо с материалами фрикционных;
- Эффективно противостоит аэрации и пенообразованию;
- Обеспечивает отличную совместимость со всеми материалами уплотнений, предотвращает их разбухание, затвердевание и усадку, что позволяет снизить затраты на запчасти и предотвращает утечки. Эффективно защищает фтороэластомерные уплотнения тяжелой техники;
- Снижает шум.

Рекомендовано для АКПП легковых автомобилей, требующих масла качества ATF Type Dexron-VI или Dexron-III H/G/F или Dexron-III E или FORD MERCON LV. Рекомендуется к применению в новых шестиступенчатых АКПП автомобилей GM, BMW, Land Rover, Jaguar, а также в восьми и десятиступенчатых Aisin.

Цвет: красный.

Соблюдайте предписания производителя, указанные в руководстве по эксплуатации!

### **Specifications**

JASO M315, Class 1-A-LV

### **Recommendation**

AISIN WARNER JWS 3309

AISIN WARNER JWS 3324

AISIN WARNER ATF-0T4

AISIN WARNER ATF-0WS

AISIN WARNER AW-1

CITROEN Z 000169756

ALLISON C3

ALLISON C2

ALLISON C4

BENTLEY PY112995PA

BOSCH TE-ML 09

FORD ESP-M2C138-CJ

FORD ESP-M2C166-H

FORD XT-10-QLV [LV]

FORD XT-2-QDX [M]

FORD XT-2-QSM [Syn]

FORD XT-5-QM [V]

FORD XT-5-QSM [V Syn]

FORD XT-6-QSP [SP]

FORD XT-8-QAW [Premium]

FORD XT-9- QMM5 [FRN5]

FORD WSS-M2C922-A1

FORD Mercon LV

FIAT 9.555550-AV5

GM Type A Suffix A

GM Saturn T-IV Fluid

GM Saturn 22689186

GM Dex [GM 6032M]

GM Dex-B [GM 6032M]

GM Dex-IIC [6137M]

GM ATF Z1

GM Dex-IID [GM 6137M]

GM Dex-IIE [GM 6137M]

GM Dex-IIIF [GM 6297M]

GM Saturn 22717466

GM Dex-IIIG [GM 6417M]

GM Dex-VI [GMW 16444]

GM Dex-IIIH [GM N10055]

GM 19 40 700

GM AW-1

GM 19 40 767

GM 21005966

GM 88900925  
GM 19256039  
GM 9985010  
GM 9986195  
GM ATF WS  
GM 88863400  
GM 88863401  
HYUNDAI 040000C90SG  
HYUNDAI 04500-00140  
HYUNDAI UM040 CH20 Red-1  
HYUNDAI SP  
HYUNDAI SP4-M1  
HYUNDAI SPH-IV  
HYUNDAI SP-II  
HYUNDAI SP-III  
HYUNDAI SP-IV  
HYUNDAI SP-IV-RR  
HYUNDAI WS, spec NWS-9638  
HYUNDAI ATF SP-IV  
HYUNDAI ATF RED-1K  
HYUNDAI Genuine ATF  
HYUNDAI JWS 3314  
HYUNDAI 00232-19023  
KIA ATF RED-1K  
KIA ATF SP-IV  
KIA Genuine ATF  
KIA JWS 3314  
KIA 00232-19023  
KIA 040000C90SG  
KIA 04500-00140  
KIA SP  
KIA UM040 CH20 Red-1  
KIA SP4-M1  
KIA SPH-IV  
KIA SP-II  
KIA SP-III  
KIA SP-IV-RR  
KIA WS, spec NWS-9638  
KIA SP-IV  
TOYOTA ATF FZ  
TOYOTA JWS 3309  
TOYOTA 08886-81015  
TOYOTA Type T, T-II, T-III, T-IV  
TOYOTA Type D-II  
TOYOTA ATF WS Lifetime  
TOYOTA JWS 3324  
MB 236.14  
MB A 0019892203  
MB ATF 3403-M115  
MB 236.1  
MB 236.10  
MB 236.11  
MB 236.12  
MB 236.2  
MB 236.41  
MB 236.5  
VOLKSWAGEN LT 71141  
VOLKSWAGEN G 052 162 [AG4]

VOLKSWAGEN G 052 533  
VOLKSWAGEN G 052 990 A2  
VOLKSWAGEN G 055 005 A2  
VOLKSWAGEN G 055 025 A2  
VOLKSWAGEN G 055 162 A2  
VOLKSWAGEN G 055 540 A2  
VOLKSWAGEN G 060 162 A2  
VOLKSWAGEN G US 000 162  
NISSAN Fluid A  
NISSAN Matic D  
NISSAN Matic J  
NISSAN Matic K  
NISSAN Matic W  
NISSAN N402  
NISSAN 999MP-MTJ00P, 999MP-MTS00P  
NISSAN Matic S  
BMW ATF6  
BMW ETL-7045  
BMW ETL-7045 E  
BMW ETL-8072B  
BMW LA 2634  
BMW LT 71141  
BMW M-L12108  
BMW 81 22 9 400 272  
BMW 81 22 9 400 275  
BMW 81 22 9 407 858  
BMW 81 22 9 407 859  
BMW 83 22 0 024 249  
BMW 83 22 0 024 359  
BMW 83 22 0 026 922  
BMW 83 22 0 142 516  
BMW 83 22 0 397 114  
BMW 83 22 0 402 413  
BMW 83 22 0 403 248  
BMW 83 22 0 403 249  
BMW 83 22 2 152 426  
BMW 83 22 2 163 514  
BMW 83 22 2 220 438  
BMW 83 22 2 220 440  
BMW 83 22 2 220 442  
BMW 83 22 2 289 720  
BMW 83 22 2 305 396  
BMW 83 22 2 305 397  
BMW 83 22 2 355 599  
BMW 83 22 2 355 601  
BMW 83 22 7 542 290  
BMW 83 22 9 407 765  
BMW 83 22 9 407 807  
MINI ATF JWS 3309  
MINI 83 22 0 402 413  
FCA 68171866AA  
FCA ATF+2  
FCA ATF+  
FCA ASRC  
FCA 8 & 9 Speed ATF  
FCA 68218925AA  
FCA 68218925AB  
FCA AW-1

FCA 68092912AA  
FCA 68043742AA  
FCA Dex-VI  
FCA 05127382AA  
FCA 05127382  
FCA 68157995AA  
FCA 68157995AB  
FCA 68333587AA  
FCA SP-IV  
FCA SP-III  
FCA 68171869AA  
FCA Type 7176E  
FCA Type 9602  
FCA ATF+4  
ATF M-1375.6  
ATF LA 2634  
ATF L12108  
ATF ETL-7045 E  
ATF 3403-M115  
ATF 3100 PL085  
ATF 3353  
ATF 134  
ATF K17  
ATF N402  
ATF M-1375.4  
DAIHATSU D3-SP  
HONDA ATF DW-1  
HONDA 08200-9008  
HONDA ATF Type 3.0  
HONDA 08200-9016-A  
HONDA ATF Type 3.1  
HONDA 08200-9017  
HONDA ATF Z1  
HONDA 08200-9001  
HONDA 08200-9001A  
ISUZU ATF II  
ISUZU ATF III  
ISUZU Genuine ATF  
ISUZU 08200-9001  
ISUZU SCS  
JAGUAR 02JDE 26444  
JAGUAR Fluid 8432  
JAGUAR JLM 20238  
JAGUAR JLM 20292  
JAGUAR JLM 21044  
JAGUAR K17, Jatco 3100 PL085  
JAGUAR LT 71141  
JAGUAR WSS-M2C922-A1  
LAND ROVER ATF N402  
LAND ROVER AW-1, LR0022460: LV  
LAND ROVER JWS3309US  
LAND ROVER TYK500050  
LAND ROVER LR023288/LR023289  
MAN 339A  
MAN 339D  
MAN 339F  
MASERATI Oil No. 231603  
MAZDA ATF FZ, ATF N-1, ATF S-1

MAZDA ATF M-5, 0000-23-ATF -M5  
MAZDA F-1  
MAZDA JWS3317  
MAZDA M3  
MAZDA Type T-IV, JWS 3309  
MITSUBISHI ATF-J2  
MITSUBISHI ATF-J3  
MITSUBISHI DIA Queen ATF-MA1, MZ320775  
MITSUBISHI Dia Queen ATF-PA, 4030401  
MITSUBISHI Dia Queen AW  
MITSUBISHI DII  
MITSUBISHI SP, MS991156  
MITSUBISHI SP-II  
MITSUBISHI SP-III  
MITSUBISHI SP-IV  
PEUGEOT Z 000169756  
PORSCHE JWS 3309  
PORSCHE 000 043 205 28  
PORSCHE LT 71141  
PORSCHE 000 043 204 63  
PORSCHE 000 043 304 00  
PORSCHE 999 917 547 00 (A2)  
PSA AL4 / 4HP20  
PSA 9730AE  
PSA B71 2340  
RENAULT DP-0  
RENAULT Matic D2  
RENAULT SATF-D  
ROLLS\_ROYCE Oil No. PL 31493PA  
SAAB ATF HP  
SAAB JWS 3309  
SAAB 93 160 393  
SAAB 93 165 147  
SATURN Dex-III  
SATURN T-IV Fluid  
SATURN 22689186  
SSANGYONG DSIH 5M-52  
SSANGYONG DSIH 5M-66  
SUBARU ATF HP  
SUBARU ATF-WS  
SUBARU K0140Y0700  
SUBARU SOA635040  
SUZUKI ATF 2326  
SUZUKI ATF 2384K  
SUZUKI ATF 3314  
SUZUKI ATF 3317  
SUZUKI ATF 5D06  
SUZUKI Matic D  
SUZUKI Matic J  
SUZUKI Matic S  
VOLVO 1161640  
VOLVO 1161540  
VOLVO 31 256 774  
VOLVO 31 256 775  
VOLVO 1161521  
VOLVO 1161621  
ZF LifeguardFluid 5 (ZF No. S671 090 170)  
ZF LifeguardFluid 6 (ZF No. S671 090 255)

ZF LifeguardFluid 8 (ZF No. S671 090 312)  
ZF LifeguardFluid 9 (ZF No. AA01.500.001)  
ZF TE-ML 11A  
ZF TE-ML 11B

## PACKAGING

1L	MN8207-1	Plastic	20 pcs/box
1000L	MN8207-IBC	Pallet tank	
208L	MN8207-DR	Drum	
60L	MN8207-60	Drum	
20L	MN8207-20	Plastic	
10L	MN8207-10	Plastic	
4L	MN8207-4	Plastic	4 pcs/box

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

**Certificate No.:** 2025384  
**Date of issue:** 03/03/2025

**Test sample**

**Product:** AVTOIL MOTOTECH 2T TC  
**Batch number:** 2503384  
**Tank ID:** T41.4

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

**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. 6.0	8.88
Viscosity index	-	ASTM D2270	Min. 95	100
Water content	%	ASTM D95	Max. 0.05	None
Pour Point	°C	ASTM D7346	Max. -15	-18
Color	-	ASTM D1500	RED	RED
Density at 15 °C	g/cm <sup>3</sup>	ASTM D4052	Test & Report	0.8768

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

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

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



**ALCO QUALITY ASSURANCE LABORATORY  
TEST REPORT**

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



**Notes & Instructions:**

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

**Approved by**

**Aytan Allahverdiyeva  
Head of Laboratory**





## Safety data sheet according to UK REACH

Printing date 29.07.2024

Version number 7 (replaces version 6)

Revision: 29.07.2024

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

#### · 1.1 Product identifier

· Trade name: **TRW DOT 5.1 Brake Fluid ESP**

#### · Article number:

PFB750, PFB701, PFB705, PFB720DR, PFB750CE, PFB750SE, PFB750RE, PFB701CE, PFB701SE, PFB701RE, PFB705CE, PFB705SE, PFB705RE, PFB720DRAE, PFB701AP, PFB750AP

#### · 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** Brake fluid

#### · 1.3 Details of the supplier of the safety data sheet

##### · **Manufacturer/Supplier:**

ZF Aftermarket UK Ltd.  
Abbeyfield Road  
Lenton  
Nottingham, NG7 2SX  
Tel +44 333 240 1123  
Fax +44 115 986 92 61  
<https://www.zf.com>

##### · **Informing department:**

Phone: +49 (0) 7541 77 0

E-Mail adress of the competent person for the safety data sheet:  
[reach@dekra.com](mailto:reach@dekra.com)

##### · 1.4 Emergency telephone number:

Poison Information Center Munich  
Phone: +49 (0) 89 - 19 240  
Information in German and English

### \* SECTION 2: Hazards identification

#### · 2.1 Classification of the substance or mixture

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



health hazard

Repr. 2 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

#### · 2.2 Label elements

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

The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms**



GHS08

· **Signal word** Warning

(Contd. on page 2)

GB



## Safety data sheet according to UK REACH

Printing date 29.07.2024

Version number 7 (replaces version 6)

Revision: 29.07.2024

**Trade name: TRW DOT 5.1 Brake Fluid ESP**

(Contd. from page 1)

- **Hazard-determining components of labelling:**  
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate
- **Hazard statements**  
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- **Precautionary statements**  
P102 Keep out of reach of children.  
P280 Wear protective gloves / eye protection / face protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**  
Please refer to further labelling elements in section 15 of this safety data sheet, if applicable.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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

- **3.2 Mixtures**
- **Description:**  
Mixture of the substances listed below including additives not requiring identification.  
Added are corrosion and oxidation inhibitors.

• <b>Dangerous components:</b>		
CAS: 30989-05-0 EINECS: 250-418-4 Reg.nr.: 01-2119462824-33-X	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate ☠ Repr. 2, H361fd	80 - 95%
CAS: 143-22-6 EINECS: 205-592-6 Reg.nr.: 01-2119475107-38-X	2-[2-(2-butoxyethoxy)ethoxy]ethanol ☠ Eye Dam. 1, H318 Specific concentration limits: Eye Dam. 1; H318: C ≥ 30 % Eye Irrit. 2; H319: 20 % ≤ C < 30 %	10 - 15%
CAS: 1559-34-8 EINECS: 216-322-1 Reg.nr.: 01-2120768763-41-X	3,6,9,12-tetraoxahexadecan-1-ol ☠ Eye Irrit. 2, H319	1 - 3%
CAS: 111-77-3 EINECS: 203-906-6 Reg.nr.: 01-2119475100-52-X	Methoxydiglycol ☠ Repr. 1B, H360D Specific concentration limit: Repr. 1B; H360D: C ≥ 3 %	0 - <3%
CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44-X	2-(2-butoxyethoxy)ethanol ☠ Eye Irrit. 2, H319	<1%

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

— GB —  
(Contd. on page 3)



## Safety data sheet according to UK REACH

Printing date 29.07.2024

Version number 7 (replaces version 6)

Revision: 29.07.2024

---

**Trade name: TRW DOT 5.1 Brake Fluid ESP**

---

(Contd. from page 2)

---

**\* SECTION 4: First aid measures****· 4.1 Description of first aid measures****· General information**

Show this safety data sheet to the attending physician.

Personal protection for the First Aider.

Instantly remove any clothing contaminated by the product.

**· After inhalation**

Supply fresh air; consult doctor in case of symptoms.

In case of unconsciousness bring patient into stable side position for transport.

**· After skin contact**

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**· After eye contact**

Use eye protection.

Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.

Remove contact lenses if possible.

In case of permanent aches and pains please go and see the doctor.

**· After swallowing**

Rinse out mouth and then drink plenty of water.

Call a doctor immediately.

**· 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**

Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Use fire fighting measures that suit the environment.

**· For safety reasons unsuitable extinguishing agents** Water with a full water jet.**· 5.2 Special hazards arising from the substance or mixture**

Inhalation of combustion gases may cause serious health hazards.

Can be released in case of fire:

Carbon monoxide and carbon dioxide

Formation of flammable mixtures of vapours with air possible.

**· 5.3 Advice for firefighters****· Protective equipment:** Wear self-contained breathing apparatus.**· Additional information**

Remove goods in stock from incendiary zone, if possible.

Use water to keep fire exposed containers cool.

---

**\* SECTION 6: Accidental release measures****· 6.1 Personal precautions, protective equipment and emergency procedures**

Clear the danger zone.

Avoid contact with the product.

(Contd. on page 4)

—GB—



## Safety data sheet according to UK REACH

Printing date 29.07.2024

Version number 7 (replaces version 6)

Revision: 29.07.2024

---

**Trade name: TRW DOT 5.1 Brake Fluid ESP**

---

(Contd. from page 3)

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

- **For non-emergency personnel** Evacuate personnel to safe area.
- **For emergency responders** Put on suitable personal protective equipment.
- **6.2 Environmental precautions:**
  - Prevent from spreading (e.g. by damming-in or oil barriers).
  - Do not allow to enter drainage system, 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).
  - Dispose of contaminated material as waste according to section 13.
- **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 information on disposal.

---

### \* SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
  - Open and handle container with care.
  - Prevent formation of aerosols.
  - Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
  - The product forms flammable fumes when heated.
- **Handling**
  - The usual precautionary measures should be adhered to general rules for handling chemicals.
  - Do not eat, drink or smoke while working.
  - Avoid direct contact with eyes, skin and clothing.
  - Wash hands during breaks and at the end of the work.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
  - Store cool and dry in well sealed containers.
  - Store only in the original container.
  - Ensure sufficient ventilation.
- **Information about storage in one common storage facility:**
  - Store away from oxidising agents.
  - Keep away from food, drink and animal feeding stuffs.
- **Further information about storage conditions:**
  - Protect from humidity and keep away from water.
  - Protect from heat and direct sunlight.
  - Protect from frost.
  - Recommended storage temperature: 10-30 °C
- **7.3 Specific end use(s)** Brake fluid

—GB—

(Contd. on page 5)

**Safety data sheet  
according to UK REACH**

Printing date 29.07.2024

Version number 7 (replaces version 6)

Revision: 29.07.2024

**Trade name: TRW DOT 5.1 Brake Fluid ESP**

(Contd. from page 4)

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

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
WEL: workplace exposure limit  
OEL: Occupational Exposure Limit

<b>111-77-3 Methoxydiglycol</b>	
WEL (Great Britain)	Long-term value: 50.1 mg/m <sup>3</sup> , 10 ppm Sk
IOELV (European Union)	Long-term value: 50.1 mg/m <sup>3</sup> , 10 ppm Skin
OEL (Ireland)	Long-term value: 50.1 mg/m <sup>3</sup> , 10 ppm Skin, IOELV
<b>112-34-5 2-(2-butoxyethoxy)ethanol</b>	
WEL (Great Britain)	Short-term value: 101.2 mg/m <sup>3</sup> , 15 ppm Long-term value: 67.5 mg/m <sup>3</sup> , 10 ppm
IOELV (European Union)	Short-term value: 101.2 mg/m <sup>3</sup> , 15 ppm Long-term value: 67.5 mg/m <sup>3</sup> , 10 ppm
OEL (Ireland)	Short-term value: 101.2 mg/m <sup>3</sup> , 12 ppm Long-term value: 67.5 mg/m <sup>3</sup> , 10 ppm IOELV

· **Additional information:** The lists that were valid during the compilation were used as basis.

- **8.2 Exposure controls**
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**  
Keep away from foodstuffs, beverages and food.  
Take off all contaminated clothing immediately.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.
- **Breathing equipment:**  
Not necessary if room is well-ventilated.  
Use breathing protection only when aerosol or mist is formed.  
Filter A/P2.
- **Hand protection**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Only use chemical-protective gloves with CE-labelling of category III (EN 374).

- **Material of gloves**  
Butyl rubber, BR  
Nitrile rubber, NBR
- **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.

(Contd. on page 6)

—GB—

**Safety data sheet**  
according to UK REACH

Printing date 29.07.2024

Version number 7 (replaces version 6)

Revision: 29.07.2024

**Trade name: TRW DOT 5.1 Brake Fluid ESP**

(Contd. from page 5)

In case of a layer thickness of  $\geq 0.4$  mm the penetration time is longer than 480 minutes.

· **Eye/face protection**



Tightly sealed safety glasses.

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

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

· **General Information**

- **Colour:** Amber coloured
- **Odour:** Mild
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** < -50 °C (SAE J 1703)
- **Boiling point or initial boiling point and boiling range** > 260 °C (SAE J 1703)
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Flash point:** > 120 °C (IP 35)
- **Auto-ignition temperature:** > 280 °C (ASTM D 286)
- **Decomposition temperature:** > 300 °C  
300 °C

· **SADT**

- **pH at 20 °C** 7 - 10.5 (SAE J 1703)
- **Viscosity:**
- **Kinematic viscosity at 20 °C** 5 - 10 mm<sup>2</sup>/s
- **dynamic:** Not determined.
- **Solubility**
- **Water:** Fully miscible
- **Partition coefficient n-octanol/water (log value)** 1.5 log POW  
1.5
- **Vapour pressure:** Not determined.
- **Density and/or relative density**
- **Density at 20 °C** 1.02 - 1.07 g/cm<sup>3</sup> (DIN 51757)

· **9.2 Other information**

- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive.
- **Solvent content:**
- **Organic solvents:** 1 - < 4 %

(Contd. on page 7)

GB

**Safety data sheet**  
**according to UK REACH**

Printing date 29.07.2024

Version number 7 (replaces version 6)

Revision: 29.07.2024

**Trade name: TRW DOT 5.1 Brake Fluid ESP**

(Contd. from page 6)

· <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**  
Possible formation of peroxide  
Reacts with light alloys to form hydrogen
- **10.4 Conditions to avoid** Heat.
- **10.5 Incompatible materials:**  
Avoid contact with strong oxidizing agents.  
Can attack paints and coatings as well as some plastics and rubber.
- **10.6 Hazardous decomposition products:**  
None in case of intended use and storage in compliance with instructions.

**\* SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:****30989-05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate**

Oral | LD50 | &gt; 2,000 mg/kg (Rat) (OECD 401)

(Contd. on page 8)

GB



## Safety data sheet according to UK REACH

Printing date 29.07.2024

Version number 7 (replaces version 6)

Revision: 29.07.2024

**Trade name: TRW DOT 5.1 Brake Fluid ESP**

(Contd. from page 7)

Dermal	LD50	> 2,000 mg/kg (Rat) (OECD 402)
<b>143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol</b>		
Oral	LD50	5,170 mg/kg (Rat)
Dermal	LD50	3,540 mg/kg (rabbit)
<b>1559-34-8 3,6,9,12-tetraoxahexadecan-1-ol</b>		
Oral	LD50	2,630 mg/kg (Rat)
Dermal	LD50	3,540 mg/kg (rabbit)
<b>111-77-3 Methoxydiglycol</b>		
Oral	LD50	7,128 mg/kg (mouse) (OECD 201)
Dermal	LD50	9,404 mg/kg (rabbit) (OECD 402)
Inhalative	LC0	> 1.2 mg/l/6h (Rat) (OECD 403)
<b>112-34-5 2-(2-butoxyethoxy)ethanol</b>		
Oral	LD50	5,660 mg/kg (Rat)
Dermal	LD50	2,764 mg/kg (rabbit) (OECD 402)
Inhalative	LC0	67.5 mg/l/0.5h (human)

- **Skin corrosion/irritation** Long-term skin contact may cause skin irritation and/or dermatitis.
- **Serious eye damage/irritation** Splashes can cause temporary eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Suspected of damaging fertility. Suspected of damaging the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**

· <b>Repeated dose toxicity</b>		
<b>143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol</b>		
Oral	NOAEL (90d)	500 mg/kg bw/day (Rat)
<b>111-77-3 Methoxydiglycol</b>		
Oral	NOAEL (28d)	900 mg/kg bw/day (Rat) (OECD 407)
Dermal	NOAEL (90d)	40 mg/kg bw/day (guinea pig) (OECD 411)
Inhalative	NOAEC (90d)	> 1,060 mg/m <sup>3</sup> (Rat) (OECD 413)
<b>112-34-5 2-(2-butoxyethoxy)ethanol</b>		
Oral	NOAEL (90d)	250 mg/kg bw/day (Rat) (OECD 408)
Dermal	NOAEL (90d)	2,000 mg/kg bw/day (Rat) (OECD 411)
Inhalative	NOAEC (90d)	94 mg/m <sup>3</sup> (Rat) (OECD 413) Vapour

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Repr. 2

(Contd. on page 9)

— GB —



## Safety data sheet according to UK REACH

Printing date 29.07.2024

Version number 7 (replaces version 6)

Revision: 29.07.2024

**Trade name: TRW DOT 5.1 Brake Fluid ESP**

(Contd. from page 8)

**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

**\* SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****30989-05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate**

EC50	> 211.2 mg/l/48h (Daphnia magna) (OECD 202)
LC50	> 222.2 mg/l/96h (Oncorhynchus mykiss) (OECD 203)
EC50	> 224.4 mg/l/72h (Raphidocelis subcapitata) (OECD 201)

**143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol**

EC50 (static)	2,210 mg/l/48h (Daphnia magna) (EU C.2)
EC0 (static)	2,150 mg/l/96h (fish) (DIN 38 412-L15)
LC50	2,400 mg/l/96h (Pimephales promelas) 2,200 - 4,600 mg/l/96h (fish) (DIN 38412-15)
EC50 (static)	840 mg/l/72h (Desmodesmus subspicatus) (OECD 201)
NOEC (static)	1,000 mg/l/96h (fish) (DIN 38 412-L15)

**1559-34-8 3,6,9,12-tetraoxahexadecan-1-ol**

EC50	> 3,200 mg/l/48h (Daphnia magna) (OECD 202)
LC50	> 1,800 mg/l/96h (Scophthalmus maximus) (OECD 203)
EC50	2,490 mg/l/72h (Algae)

**111-77-3 Methoxydiglycol**

EC50 (static)	1,192 mg/l/48h (Daphnia magna)
EC50 (static)	> 1,000 mg/l/96h (Selenastrum capricornutum) (OECD 201)
LC50 (static)	5,741 mg/l/96h (Pimephales promelas)

**112-34-5 2-(2-butoxyethoxy)ethanol**

EC50 (static)	> 100 mg/l/48h (Daphnia magna) (OECD 202)
EC50 (static)	> 100 mg/l/96h (Desmodesmus subspicatus) (OECD 201)
LC50 (static)	1,300 mg/l/96h (Lepomis macrochirus) (OECD 203)

- 12.2 Persistence and degradability** Easily biodegradable
- Other information:** There are no data available about the preparation.
- 12.3 Bioaccumulative potential**  
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- 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** No further relevant information available.

(Contd. on page 10)

— GB —



## Safety data sheet according to UK REACH

Printing date 29.07.2024

Version number 7 (replaces version 6)

Revision: 29.07.2024

---

**Trade name: TRW DOT 5.1 Brake Fluid ESP**


---

(Contd. from page 9)

- **Additional ecological information:**

- **General notes:**

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

---

### \* SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The waste code numbers mentioned are recommendations based on the probable use of the product.

- **European waste catalogue**

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01 00	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 13*	brake fluids
HP4	Irritant - skin irritation and eye damage
HP10	Toxic for reproduction

- **Uncleaned packagings:**

- **Recommendation:**

Disposal must be made according to official regulations.  
Dispose of packaging according to regulations on the disposal of packagings.  
Non contaminated packagings can be used for recycling.  
Cleaned packing materials have to be admitted to local recycling circuits.

- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

---

### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR/RID, ADN, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR/RID, ADN, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR/RID, ADN, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR/RID, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>	No
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> </ul>	Not applicable.

(Contd. on page 11)

— GB —



## Safety data sheet according to UK REACH

Printing date 29.07.2024

Version number 7 (replaces version 6)

Revision: 29.07.2024

**Trade name: TRW DOT 5.1 Brake Fluid ESP**

(Contd. from page 10)

· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
· <b>UN "Model Regulation":</b>	Void

### \* SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

**· Regulated explosives precursors**

None of the ingredients is listed.

**· Regulated poisons**

None of the ingredients is listed.

**· Reportable explosives precursors**

None of the ingredients is listed.

**· Reportable poisons**

None of the ingredients is listed.

**· Chemical safety assessment**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

**· REGULATION (EU) 2019/1148****· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**· Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### \* SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Relevant phrases**

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H360D May damage the unborn child.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

**· Department issuing data specification sheet:**

This Safety Data Sheet has been drawn up in cooperation with:  
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,  
phone: (+49) 511 42079 - 0, reach@dekra.com.

(Contd. on page 12)

GB



## Safety data sheet according to UK REACH

Printing date 29.07.2024

Version number 7 (replaces version 6)

Revision: 29.07.2024

---

**Trade name: TRW DOT 5.1 Brake Fluid ESP**

---

(Contd. from page 11)

© DEKRA Assurance Services GmbH. Changing this documents is subject to explicit acceptance by DEKRA Assurance Services GmbH.

· **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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 1B: Reproductive toxicity – Category 1B

Repr. 2: Reproductive toxicity – Category 2

· **Sources** Because of lack on recipe information, this SDS was created on the basis of the supplier's SDS.

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

---

GB



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

## ПАСПОРТ КАЧЕСТВА № 16-1835/1

**Жидкость охлаждающая  
низкозамерзающая марки А-38  
Tosol**

**ТУ У 24.6-14215951-001:2010 зі змінами 1-6**

Партия №: 136-03  
Масса нетто, кг указано на канистре

Дата фасовки  
Вид и тип тары

1/19/2026  
кан.п/е 1л, 5л, 10л

№	Название показателя	Норма	Факт	Метод испытания
1	Внешний вид	Однородная прозрачная жидкость без механических примесей. Цвет соответствует образцу-эталоноу	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, розділ 1
3	Фракционный состав:			ГОСТ 28084-89, п.4.4
	Температура начала перегонки, °С, не ниже	100	100.0	
	Фракционный состав массовая доля жидкости, перегоняемая до температуры °С, не больше	60	54.3	
4	Коррозионное воздействие на металлы г/м <sup>2</sup> сут., не больше *			ГОСТ 28084-89, п.4.5
	• алюминий	0.1	0.04	
	• чугун	0.1	0.08	
	• сталь	0.1	0.03	
	• медь	0.1	0.04	
	• латунь	0.1	0.05	
	• припой	0.2	0.15	
5	Вспениваемость:			ГОСТ 28084-89, п.4.6
	• Объем пены, см <sup>3</sup> не больше	30	15	
	• Стойкость пены, с, не больше	3	1.80	
6	Набухание резины, %, не больше	5	1.3	ГОСТ 28084-89, п.4.7
7	Водородный показатель(pH), при 20 °С	7.5-11.0	8.8	ГОСТ 28084-89, п.4.8
8	Щелочность, см <sup>3</sup> раствора КОН, не меньше	10	21.3	ГОСТ 28084-89, п.4.9
9	Температура застывания, °С, не выше	-39	-40.0	ТУ У 24.6-14215951-001:2010, п.6.12

\*Согласно протокола периодических испытаний № 16-006 от 01.03.2016

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

Подпись

Печать





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

## ПАСПОРТ КАЧЕСТВА № 19-0451/2

**Жидкость охлаждающая  
низкозамерзающая марки А-38  
Тосол М**

**ТУ У 24.6-14215951-001:2010 зі змінами 1-6**

Партия №: 112-01  
Масса нетто, кг указано на канистре

Дата фасовки  
Вид и тип тары

12/25/2025  
кан.п/е 10л, 20л

№	Название показателя	Норма	Факт	Метод испытания
1	Внешний вид	Однородная прозрачная жидкость без механических примесей. Цвет соответствует образцу-эталоны	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, розділ 1
3	Фракционный состав:			ГОСТ 28084-89, п.4.4
	Температура начала перегонки, °С, не ниже	100	100.0	
	Фракционный состав массовая доля жидкости, перегоняемая до температуры °С, не больше	60	54.3	
4	Коррозионное воздействие на металлы г/м <sup>2</sup> сут., не больше *			ГОСТ 28084-89, п.4.5
	• алюминий	0.1	0.04	
	• чугун	0.1	0.08	
	• сталь	0.1	0.03	
	• медь	0.1	0.04	
	• латунь	0.1	0.05	
	• припой	0.2	0.15	
5	Вспениваемость:			ГОСТ 28084-89, п.4.6
	• Объем пены, см <sup>3</sup> не больше	30	15	
	• Стойкость пены, с, не больше	3	1.80	
6	Набухание резины, %, не больше	5	1.3	ГОСТ 28084-89, п.4.7
7	Водородный показатель(рН), при 20 °С	7.5-11.0	8.8	ГОСТ 28084-89, п.4.8
8	Щелочность, см <sup>3</sup> раствора КОН, не меньше	10	21.3	ГОСТ 28084-89, п.4.9
9	Температура застывания, °С, не выше	-39	-40.0	ТУ У 24.6-14215951-001:2010, п.6.13

\*Согласно протокола периодических испытаний № 16-008 от 12.07.2021

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

Подпись

Печать





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





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

## ПАСПОРТ КАЧЕСТВА № 23-5844/1

Жидкость охлаждающая низкотемпературная марки А-38

Антифриз G11 VAMP

ТУ У 24.6-14215951-001:2010 с изменениями 1-6

Партия №: 24-020-01

Масса нетто, кг вказано на канистрі

Дата фасовки

Вид и тип тары

1/15/2026

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	ТУ У 24.6-14215951-001:2010 п.6.3
2	Плотность при температуре 20 °С, г/см <sup>3</sup> , не меньше	1.060	1.065	ДСТУ 7261:2012
3	Фракционный состав:			ТУ У 24.6-14215951-001:2010 п.6.6
	Температура начала перегонки, °С, не ниже	100	108	
	Фракционный состав массовая доля жидкости, перегоняемая до температуры °С, не больше	60	52	
4	Коррозионное воздействие на металлы г/м <sup>2</sup> сут., не больше *			ТУ У 24.6-14215951-001:2010 п.6.7
	* 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:			ТУ У 24.6-14215951-001:2010 п.6.8
	* Объем пены, см <sup>3</sup> не больше	30	0	
	* Стойкость пены, с, не больше	3	0	
6	Набухание резины, %, не больше	5	0.9	ТУ У 24.6-14215951-001:2010 п.6.9
7	Водородный показатель(рН), при 20 °С	7.5 -11.0	8.6	ТУ У 24.6-14215951-001:2010 п.6.10
8	Щелочность, см <sup>3</sup> раствора КОН, не меньше	не нормується	6.3	ТУ У 24.6-14215951-001:2010 п.6.11
9	Температура застывания, °С, не выше	-39	-40	ТУ У 24.6-14215951-001:2010, п.6.13

\*Согласно протокола периодических испытаний № 23-68 п.и 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

Подпись



Печать



**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**



# CERTIFICAT DE CONFORMITATE



Nr. de înregistrare **11 A008170-25**

Data emiterii 14 martie 2025

Valabil până 14 martie 2027

**ORGANISMUL DE CERTIFICARE produse din cadrul SC "Inspecție-Certificare-Calitate" S.R.L.**  
MD 2032, mun. Chișinău, str. Sarmizegetusa, 92, tel./fax 022 50-70-75, [www.certificare.md](http://www.certificare.md)

PRIN PREZENTUL DOCUMENT SE CONFIRMĂ FAPTUL, CĂ PRODUSELE IDENTIFICATE ASTFEL:  
DENUMIREA / DESCRIEREA

Produse chimice pentru autoturisme, marca comercială "DA'AUTO'CAR":  
soluție apoasă de uree "AD-Blue" pentru motoare Diesel.  
Fabricare în serie conform SF 41279445-001:2021

Codul NCM  
3102

SÎNT CONFORME CU CERINȚELE OBLIGATORII STABILITE ÎN :

SM GOST R 51696:2003 p.3.2.1 (tab.1, ind. 1); SM STB 1044:2011 p.4, p.5, p.7;  
HG RM nr. 996 din 20.08.2003, anexa 2 "Normele privind etichetarea produselor chimice de menaj"

PRODUCĂTOR

"AMID-AUTO" SRL, șos.Muncești, 364, mun. Chișinău, Republica Moldova

Codul țării  
MD

SOLICITANT

"AMID-AUTO" SRL, str.Independentei 42, ap. 20, mun. Chișinău,  
Republica Moldova

Codul IDNO  
1018600036225

CERTIFICATUL ESTE ELIBERAT ÎN BAZA

Raportului de încercări nr. 6 din 07.03.2025, eliberat de LÎ al "ASCHIM CI" SRL, mun. Chișinău, or. Durlești, str. T.Vladimirescu, 70; Raportului de evaluare a procesului de producție nr. 9581-25 din 05.03.2025; Raportului de identificare a produselor nr. 9581-25 din 05.03.2025; Raportului sumar asupra rezultatelor certificării produselor nr. 9581-25 din 12.03.2025, eliberate OC "ICC".

INFORMAȚIE SUPLIMENTARĂ:

Schema certificării produselor Nr.3. Evaluarea periodică se va efectua o dată pe an de OC "ICC" conform contractului de evaluare periodică a produselor certificate Nr.25.22.9581-EPPC din 14.03.2025. Contract de efectuare a încercărilor periodice Nr. 14-2025 din 01.03.2025 cu LÎ „ASCHIM CI” SRL. Certificatul este valabil doar în cazul asigurării cu informația în limba de stat a fiecărei unități de produs, conform legislației în vigoare.

Seria V Nr. 008170



ADJ. CONDUCĂTORUL  
ORGANISMULUI DE CERTIFICARE

Neaga O.

**În atenția antreprenorilor și organelor de control !**  
**Copiile certificatelor se legalizează prin specimenul de stampilă și semnătura deținătorului certificatului**