

	ALCO QUALITY ASSURANCE LABORATORY TEST REPORT Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21	
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Company: ALCO LLC
 3, Vali Mammadov st., Sabail dist.
 AZ1095, Baku, Azerbaijan

Certificate No.: 20241029
Date of issue: 02/07/2024

Test sample

Product: AVTOIL INDUSTRIAL HYDRAULIC HLP 46
Batch number: 24071029
Tank ID: T45.2

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

Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 40 °C	mm ² /s	ASTM D445	41.4-50.6	46.09	Pass
Viscosity index	-	ASTM D2270	Min. 90	108	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 185	224	Pass
Pour Point	°C	ASTM D97	Max. -24	-24	Pass
Color	-	ASTM D1500	Test & Report	2.0	Pass
Density at 15 °C	g/cm ³	ASTM D4052	Test & Report	0.8719	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.

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Authorised singnatory



Allahverdiyeva Aytan
Head of Laboratory



Isgandarli Nazrin
Lead Chemical Engineer

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

Certificate No.: 20241984
Date of issue: 22/11/2024

Test sample

Product: AVTOIL HLP32
Batch number: 24111984
Tank ID: T45.3

Manufacture date: 22/11/2024
Date of sampling: 22/11/2024
Date of analysis: 22/11/2024

Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 40 °C	mm ² /s	ASTM D445	28.8-35.2	31.00	Pass
Viscosity index	-	ASTM D2270	Min. 95	100	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Pour Point	°C	ASTM D97	Max. -17	-17	Pass
Color	-	ASTM D1500	Max. 2.0	0.3	Pass
Density at 15 °C	g/cm ³	ASTM D4052	Test & Report	0.8767	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.

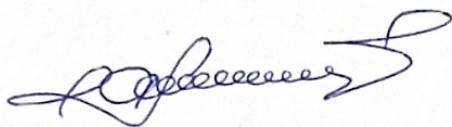
This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

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Approved by



Allahverdiyeva Aytan
Head of Laboratory



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

Certificate No.: 20241042
Date of issue: 05/07/2024

Test sample

Product: AVTOIL INDUSTRIAL HYDRAULIC I-20A
Batch number: 24071042
Tank ID: T45.2

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

Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C	mm ² /s	ASTM D445	4.5-5.5	5.400	Pass
Kinematic viscosity at 40 °C	mm ² /s	ASTM D445	Test & Report	29.83	Pass
Viscosity index	-	ASTM D2270	Min. 90	107	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 190	230	Pass
Pour Point	°C	ASTM D97	Max. -10	-12	Pass
Color	-	ASTM D1500	Max. 1.0	1.0	Pass
Density at 15 °C	g/cm ³	ASTM D4052	Test&Report	0.8532	Pass

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

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ALCO QUALITY ASSURANCE LABORATORY
TEST REPORT
Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21



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Authorised singnatory

Allahverdiyeva Aytan
Head of Laboratory

Isgandarli Nazrin
Lead Chemical Engineer

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

Certificate No.: 2024613-1
Date of issue: 23/04/2024

Test sample

Product: AVTOIL TEP-15
Batch number: 2404613-1
Tank ID: T41.1

Manufacture date: 23/04/2024
Date of sampling: 23/04/2024
Date of analysis: 23/04/2024

Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C	mm ² /s	ASTM D445	14.0-16.0	14.67	Pass
Viscosity index	-	ASTM D2270	Min. 90	98	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 185	240	Pass
Pour Point	°C	ASTM D97	Max. -25	<-25	Pass
Color.	-	ASTM D1500	Test & Report	3.9	Pass
Density at 15 °C	g/cm ³	ASTM D4052	Test & Report	0.8901	Pass

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

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Allahverdiyeva Aytan
Head of Laboratory



Isgandarli Nazrin
Lead Chemical Engineer



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

Certificate No.: 2024529
Date of issue: 09/04/2024

Test sample

Product: AVTOIL ATF II red
Batch number: 2404529
Tank ID: T41.4

Manufacture date: 09/04/2024
Date of sampling: 09/04/2024
Date of analysis: 09/04/2024

Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C	mm ² /s	ASTM D445	Min. 7.000	7.24	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 185	238	Pass
Pour Point	°C	ASTM D97	Max. -40	<-43	Pass
Color	-	ASTM D1500	RED	RED	Pass
Density at 15 °C	g/cm ³	ASTM D4052	Test & Report	0.8673	Pass

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

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Head of Laboratory



Isgandarli Nazrin
Lead Chemical Engineer



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

Certificate No.: 20241818
Date of issue: 24/10/2024

Test sample

Product: AVTOIL 10W-40 SL/CF
Batch number: 24101818
Tank ID: T41.2

Manufacture date: 24/10/2024
Date of sampling: 24/10/2024
Date of analysis: 24/10/2024

Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C	mm ² /s	ASTM D445	12.5-16.3	14.51	Pass
Viscosity index	-	ASTM D2270	Min. 130	148	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Pour Point	°C	ASTM D97	Max. -30	-30	Pass
Color	-	ASTM D1500	Test & Report	2.4	Pass
TBN	mg KOH/g	ASTM D2896	Min. 6.0	6.40	Pass
Density at 15°C	g/cm ³	ASTM D4052	Test & Report	0.8768	Pass

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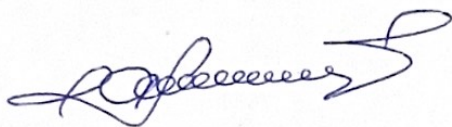
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Company: ALCO LLC
3, Vali Mammadov st., Sabail dist.
AZ1095, Baku, Azerbaijan

Certificate No.: 2024330
Date of issue: 04/03/2024

Test sample

Product: AVTOIL M-10G2K
Batch number: 2402330
Tank ID: T41.2

Manufacture date: 29/02/2024
Date of sampling: 29/02/2024
Date of analysis: 29/02/2024

Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C	mm ² /s	ASTM D445	10.5-11.5	11.42	Pass
Viscosity index	-	ASTM D2270	Min. 85	95	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 210	242	Pass
Pour Point	°C	ASTM D97	Max. -15	-18	Pass
Color, with a dilution of 15:85, units of the CNT	-	ASTM D1500	Max. 4.0	0.8	Pass
Density at 20 °C	g/cm ³	ASTM D4052	Max. 0.905	0.8864	Pass

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

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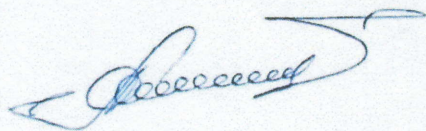
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Authorised singnatory



Allahverdieva Aytan
Head of Laboratory



Isgandarli Nazrin
Chemical Engineer



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



YUKO-е зареєстрованою торговою маркою ТОВ "СП ЮКОЙЛ"

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

Паспорт якості фасованої продукції №38131.01.01.1
Олива моторна YUKO MAX SYNTHETIC A&A 5W-30

Виробник: ТОВ «СП ЮКОЙЛ» за ТУ У 19.2-31852954-115:2021
Розфасовано: ТОВ «СП ЮКОЙЛ» за ТУ У 23.2-31852954-027:2006
Клас в'язкості: **SAE 5W-30**
Клас експлуатаційних властивостей: API SP, ILSAC GF-6A



Дата виготовлення: Вересень 2024р.
Тара: каністра 4л жерсть; об'єм партії 500 шт.
Номер партії: 38131.20.09.24.01.

Ф.5 СТП014

Назва показника	Вимоги НД	Фактично	Метод випробувань
Густина при 20°C, кг/м³, не більше	910	854,6	ГОСТ 3900 або ASTM D1298
В'язкість кінематична при температурі 100°C, мм²/с	9,3 - 12,5	11,01	ДСТУ ГОСТ 33 або ASTM D445
Індекс в'язкості, не менше	135	161	ДСТУ ГОСТ 25371 або ASTM D2270
Температура спалаху, визначена у відкритому тиглі, °C, не нижче	200	212	ДСТУ ГОСТ 4333 або ASTM D92
Температура застигання, °C, не вище	- 33	- 45	ГОСТ 20287 або ASTM D97
Масова частка механічних домішок, %, не більше	0,015	0,013	ДСТУ ГОСТ 6370
Масова частка води, %, не більше	Сліди	Сліди	ДСТУ ГОСТ 2477 або ASTM D95
Лужне число, мг КОН/г, не менше	8,0	10,06	ДСТУ 5094 або ГОСТ 11362 або ASTM D4739 або ASTM D2896
Зольність сульфатна, %, не більше	1,6	1,32	ДСТУ ISO 3987 або ASTM D874
Випробування на корозію на пластинках із сталі та міді	Витримує	Витримує	ГОСТ 2917 або ASTM D130
В'язкість динамічна, мПа·с, не більше			ДСТУ 8349 або ASTM D5293
- при мінус 30°C	6 600	5 813	
Масова частка активних елементів, %, не менше			ГОСТ 13538 або ASTM D6481 або ASTM D6443 або ASTM D4927
- кальцію	Не нормується, визначається обов'язково	0,335	
- цинку	0,05	0,122	
Колір на колориметрі ЦНТ, з розбавленням 15:85 одиниць ЦНТ, не більше	5,0	1,0	ГОСТ 20284 або ASTM D1500

Паспорт якості дійсний тільки за наявності печатки.
Висновок: якість продукції відповідає вимогам нормативної документації
Гарантійний термін зберігання - 5 років

М. П.



Начальник ВТК

Юлія ЄВТУШЕНКО

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

Certificate No.: 2024282-1
Date of issue: 23/02/2024

Test sample

Product: AVTOIL M-10DM
Batch number: 2402282
Tank ID: T41.2

Manufacture date: 22/02/2024
Date of sampling: 22/02/2024
Date of analysis: 22/02/2024

Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C, min.	mm ² /s	ASTM D445	Min. 11.40	11.55	Pass
Viscosity index	-	ASTM D2270	Min. 90	103	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 220	250	Pass
Pour Point	°C	ASTM D97	Max. -18	-21	Pass
Color, with a dilution of 15:85, units of the CNT	-	ГОСТ 20284	Max. 3.5	0.8	Pass
Density at 20 °C	g/cm ³	ASTM D4052	Test & Report	0.8851	Pass

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

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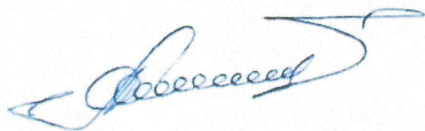
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Authorised singnatory



Allahverdieva Aytan
Head of Laboratory



Isgandarli Nazrin
Chemical Engineer



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

Certificate No.: 20241022-1
Date of issue: 05/07/2024

Test sample

Product: AVTOIL 15W40 SG/CD
Batch number: 24071022-1
Tank ID: T41.2

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

Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C	mm ² /s	ASTM D445	12.5-16.3	13.90	Pass
Viscosity index	-	ASTM D2270	Min. 120	148	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 215	238	Pass
Pour Point	°C	ASTM D97	Max. -30	-30	Pass
Color	-	ASTM D1500	Test & Report	2.5	Pass
Density at 15 °C	g/cm ³	ASTM D4052	Test & Report	0.8700	Pass

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Head of Laboratory



Isgandarli Nazrin
Lead Chemical Engineer

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Телефон ВТК: +38 (061) 222 80 25
ЄДРПОУ 31852954



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

Паспорт якості фасованої продукції №14140.01.01.1

Мастило YUKO Солідол Жировий

ГОСТ 1033-79

Виробник: ТОВ «СП ЮКОЙЛ»
Розфасовано: ТОВ «СП ЮКОЙЛ» за ТУ У 23.2-31852954-027:2006
Клас NLGI **NLGI 2/3**
Дата виготовлення: Квітень 2024р.
Тара: відро 5л ПЕ
Номер партії: 14140.05.04.24.01.

Назва показника	Вимоги НД	Фактично	Метод випробувань
Зовнішній вигляд	Однорідне мастило від світло-жовтого до темно-коричневого кольору	Однорідне мастило коричневого кольору	ГОСТ 1033 п. 4.2
Температура крапання, °С, не нижче	78	98,0	ГОСТ 6793
В'язкість ефективна при 0°С та середньому градієнті швидкості деформації 10 с-1, Па·с, не більше	250	185	ГОСТ 7163
Пенетрація при 25 °С з перемішуванням, мм·10-1	230-290	235	ГОСТ 5346, метод В
Межа міцності на зсув при 50°С, Па, не менше	196	355	ГОСТ 7143
Масова частка вільного луку в перерахунку на NaOH, %, не більше	0,2	0,062	ГОСТ 6707
Масова частка вільних органічних кислот	Відсутність	Відсутність	ГОСТ 6707
Масова частка механічних домішок, не розчинних у соляній кислоті, %, не більше	Відсутність	Відсутність	ГОСТ 6479
Масова частка води, %, не більше	2,5	0,1	ГОСТ 2477
Масова частка кальцієвих мил жирних кислот, які входять до складу природних жирів, %, не менше	11,0	11,0	ГОСТ 5211

Паспорт якості дійсний тільки за наявності печатки.

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

Гарантійний термін зберігання - 5 років
М. П.

Начальник ВТК

Анна ЛАРЧЕНКО



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Member of:



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



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

Паспорт якості фасованої продукції №17199.01.01.1

Мастило YUKO Літол-24

ТУ У 20.5-31852954-122:2023

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

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

Ф.5 СТП014

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

Паспорт якості дійсний тільки за наявності печатки.

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

Гарантійний термін зберігання - 5 років
М. П.

Начальник ВТК

Анна ЛАРЧЕНКО





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

ПАСПОРТ КАЧЕСТВА № 16-1835/1

**Жидкость охлаждающая
низкозамерзающая марки А-40**

Тосол А-40

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

06.10.2024
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/см³, не меньше	1,06	1,074	ГОСТ 18995.1-73, розділ 1
3	Температура начала кристаллизации, °С, не выше	-36	-37	ГОСТ 28084-89, п.4.3
4	Фракционный состав:			ГОСТ 28084-89, п.4.4
	Температура начала перегонки, °С, не ниже	100	108,0	
	Фракционный состав массовая доля жидкости, перегоняемая до температуры °С, не больше	60	54,3	
5	Коррозионное воздействие на металлы г/м2 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	
6	Вспениваемость:			ГОСТ 28084-89, п.4.6
	☐ Объем пены, см3 не больше	30	0	
	☐ Стойкость пены, с, не больше	3	0	
7	Набухание резины, %, не больше	5	1,3	ГОСТ 28084-89, п.4.7
8	Водородный показатель(рН), при 20 °С	7.5-11.0	8,8	ГОСТ 28084-89, п.4.8
9	Щелочность, см3 раствора КОН, не меньше	не нормируется	17	ГОСТ 28084-89, п.4.9
10	Температура застывания, °С, не выше	-40	-40	ТУ У 24.6-14215951-001:2010, п.6.13

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

ПАСПОРТ КАЧЕСТВА № 16-1834/2

**Жидкость охлаждающая
низкозамерзающая марки А-38 красный
Антифриз Сt12+
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

08.12.2023
кан. п/е 10л,5л

№	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/см³, не меньше	1,06	1,073	ГОСТ 18995.1-73, раздел 1
3	Температура начала кристаллизации, °С, не выше	-36	-36,0	ГОСТ 28084-89, п.4.3
4	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	
5	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	
6	Вспениваемость:			ГОСТ 28084-89, п.4.6
	☐ Объем пены, см3 не больше	30	0,00	
	☐ Стойкость пены, с, не больше	3	0,00	
7	Содержание золы, %, не более	2,5	0,00	ГОСТ 28084-89
8	Набухание резины, %, не больше	5	0,9	ГОСТ 28084-89, п.4.7
9	Водородный показатель (pH), при 20 °С	7,5-11,0	8,6	ГОСТ 28084-89, п.4.8
10	Щелочность, см3 раствора КОН, не меньше	не нормируется	20,0	ГОСТ 28084-89, п.4.9
11	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

Выбор 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.

Подпись

Печать



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

Date: 03.11.2022	Version: 2.0	Supersedes version: -	Page 1 of 16
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1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

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

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture	
Classification according to Regulation (EC) No 1272/2008 (CLP)	Additional information
Acute toxicity, Category 4, oral; Specific Target Organ Toxicity (repeated exp.), Category 2; Affected organs: kidney Route of exposure: Oral	H302: Harmful if swallowed. H373: May cause damage to organs through prolonged or repeated exposure Full text of P- H- phrases see section 16
Human Health effects	
Inhalation	Slight irritation in the upper respiratory tract or bothersome effect;
Eyes	Slight irritation.
Skin	Slight irritation.
Swallowing	Dose-dependent absorptive effects. Nausea, stomachache, lethargy, drowsiness.
2.2 Label elements	



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Product identifier	1,2-Ethanediol (Index # 603-027-00-1); 2,2'-oxydiethanol (Index # 603-140-00-6).
Hazard pictograms	
Signal word	Warning
Hazard statements	H302: Harmful if swallowed. H373: May cause damage to organs through prolonged or repeated exposure
Precautionary statements	P260: Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash with plenty of water and soap thoroughly after handling. P270 Do not eat, drink or smoke when using this product P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. rinse mouth. P314: Get medical advice/attention if you feel unwell. P501 Dispose of contents/ container in accordance with local regulations
Additional information	None
2.3 Other hazards	
The substances in mixture do not meet the criteria for PBT or vPvB according to Annex XIII of Regulation (EC) No.1907/2006 (REACH). Most of substances in mixture are combustible, difficult to ignite.	

3. COMPOSITION/INFORMATION ON INGREDIENTS

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



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

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

4. FIRST AID MEASURES

4.1 Description of first aid measures

In case of inhalation:	Inhalation of product is not expected. Keep patient calm, remove to fresh air, seek medical attention.
In case of eye contact:	Wash affected eyes for at least 15 minutes under running water with eyelids held open. Consult ophthalmologist if irritation persists.
In case of skin contact:	Wash affected area thoroughly with soap and water.
In case of ingestion:	Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation	Headache, dizziness, weakness. Due to the low vapor pressure under normal conditions, exposure to vapors is only toxicologically relevant when handling heated mixture.
In case of eye contact	slightly irritating effect on mucous membranes.



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

5. FIREFIGHTING MEASURES

5.1 Extinguishing media	
Suitable extinguishing media	Water spray, dry powder, alcohol-resistant foam, carbon dioxide
Unsuitable extinguishing media	Do not use direct water jets as water destroys the foam.
5.2 Special hazards arising from the substance or mixture	
Hazardous combustion products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide and carbon dioxide and minor amounts of nitrous oxides.
5.3 Advice for firefighters	
Combustible product, ignites from open flame. Cool containers with water from distance. Wear full fire-resistant protective clothing and self-contained breathing apparatus with a full face-piece operated in positive pressure mode for confined or poorly ventilated spaces	
Further information: The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.	

6. ACCIDENTAL RELEASE MEASURES.

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



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Brake fluid
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	material. Stay upwind. Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares).
6.1.2. For emergency responders	Body suit of chemically resistant and antistatic material. Work gloves providing adequate chemical resistance. Work helmet. Antistatic non-skid safety shoes or boots. Goggles if contact with eyes is possible. A half or full-face respirator with combined dust/organic vapor filter(s), or a Self-Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and fire presence. If release is accompanied with fire – see Section 5.3
6.2 Environmental precautions	
Do not empty into drains. Do not discharge into the subsoil/soil. Prevent product from entering soil, sewers, rivers, waterways or other bodies of water. Spills should be shielded with an earthen rampart.	
6.3 Methods and material for containment and cleaning up	
For large amounts: Pump off product. Dike the product and other contaminated materials to suitable corrosion resistant containers for recycle, recovery or safe disposal. The product can be absorbed with non-combustible materials e.g. sand and then collected. Flush the spill area with water. In case soil contamination in big quantities report to local authorities. For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).	
6.4 Reference to other section	
Information about personal precautions - see Section 8. Information about waste disposal - see Section 13.	

7. HANDLING AND STORAGE

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



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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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



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



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

8.2 Exposure controls

Occupational exposure controls

8.2.1. Appropriate engineering controls

Appropriate general ventilation should be sufficient.

8.2.2. Individual protection measures, such as personal protective equipment

Respiratory protection	Not needed during foreseen use. If fumes or mists are formed due to accident use respirator. Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapors of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)
Eye/face protection	If potential exists for splashing or mist formation, use tightly fitting safety goggles (e.g. EN 166)
Skin/body protection	Wear working protective gloves (EN 374). Wear regular work clothing.

8.2.3. Environmental exposure controls

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

9.1 Information on basic physical and chemical properties

Physical state	Oily liquid
Colour	Light yellow
Odour	Almost odorless



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



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9.2.2. Other safety characteristics	None
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10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects.					
Toxicokinetics, metabolism and distribution					
The main intake route for mixture at the workplace is via the respiratory tract. Due to the very low vapor pressure of the liquid under normal conditions, exposure to vapors is to be expected mainly on heating. The kidneys are considered to be a critical target organ of mixture components, even after repeated exposure. Cases of poisoning in humans show that easily acutely toxic doses can be absorbed in this way.					
Acute toxicity			The mixture is classified as Acute toxicity, Category 4, oral; respectively classified substances are present in it. Data on substances is presented below.		
Substance name	Exposure route	Value	Exposure time period	Species	Method (as is, equivalent or similar)
2,2-oxydiethanol	oral	LD50 = 19600 mg/kg bw	-	rat	-
	dermal	LD50 = 13300 mg/kg bw	-	Rabbits	-
1,2-ethandiol	oral	LD50 = 4700mg/kg	-	rat	-



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



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



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11.2 Information on other hazards

Endocrine disrupting properties	Any of the ingredient of mixture has not been identified as having endocrine disrupting properties.
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12. ECOLOGICAL INFORMATION

12.1 Toxicity:

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

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

12.2 Persistence and degradability

Abiotic Degradation

No data available for mixture.

Biodegradation

Readily biodegradable (according to OECD criteria).



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1,2-ethandiol: After 10 days > 90 % degradation was determined. (OECD 301A)
2,2-oxydiethanol: meet the criteria in a carbon dioxide evolution test according to OECD 301B.
% Degradation of test substance: 90 – 100% after 28d

12.3 Bioaccumulative potential

No data available for mixture .

12.4 Mobility in soil

Study scientifically unjustified (substance is readily biodegradable)

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects:

None

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION



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

None

15.2 Chemical Safety Assessment

Chemical safety assessment has not been carried for the mixture.

16. OTHER INFORMATION

Revision

SDS has been issued for the first time.

Abbreviations

OEL – occupational exposure limit

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

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

MAK - maximum workplace concentrations

MAC - maximum workplace concentrations

WEL- Workplace Exposure Limits

AK - Permissible average concentration

DNEL - derived no-effect level

PNEC - predicted no effect concentration

LD50 – lethal dose

EC50 – half maximal effective concentration

EC10 - half maximal effective concentration

NOEL - no observed effect level

NOEC - no observed effect concentration

NOAEL – no observed adverse effect level

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

STOT SE – Specific target organ toxicity – single exposure

STOT RE - Specific target organ toxicity – repeated exposure

AF – Assessment factor

Sources for data

Suppliers' SDS for 1,2-ethandiol

Suppliers' SDS for 2,2'-oxydiethanol

ECHA database on registered substances

GESTIS database on international limit values

Specification TU U 20.5-37439067-006:2019

Classification method

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

List of hazard statements and/or precautionary statements

H302: Harmful if swallowed.



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H373: May cause damage to organs through prolonged or repeated exposure
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash with plenty of water and soap thoroughly after handling.
P270 Do not eat, drink or smoke when using this product
P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. rinse mouth.
P314: Get medical advice/attention if you feel unwell.
P501 Dispose of contents/ container in accordance with local regulations
All H- P-statements are mentioned in full in Section 2 of the SDS.

Advice on training

Read carefully the SDS before using the product.

Train personnel in the safe use of this product.

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

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

Nicolae Jelamschi

Digitally signed by Jelamschi Nicolae
Date: 2023.04.14 11:46:18 EEST
Reason: MoldSign Signature
Location: Moldova



SAFETY DATA SHEET

Prepared according to the European Commission Regulations (EU)
2020/878

Date of filling: 17 03 2023

Last revision date: –

Version: 1

PRODUCT: Active foam “Standart 1:3” Master’s Line

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SAFETY DATA SHEET**1. Identification of the substance/mixture and of the company/ undertaking****1.1 Product identifier**

Product name: Active foam “Standart 1:3” Master’s Line

Mixture a unique formula identifier (UFI): 2890-C0CT-000K-XJUW

1.2 Relevant identified uses of the substance or mixture and used advised against

Relevant identified uses: Car body foam. For use by consumers.

Uses advised against: No data available.

1.3 Information about the manufacturer

Name: ArtHim LLC _

Ternopil'ska, 17/2a, Khmel'nitsky, Ukraine

Tel. /fax : +38 0382 72-55-18

E-mail: office@helpix.ua

1.4 Emergency Telephone Number

The State Medicines Control Agency (SMCA), Poison Information Bureau (PIB) (Lithuania)

Tel. No.: +370 5 236 20 52

Biroul RSI si Informare Toxicologica (Romania)

Tel. No.: +40 021 318 3606

2. Types of hazardous effects and conditions for their occurrence**2.1 Classification of the substance or mixture**

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

Skin Corr. 1A; H314

Eye Dam. 1; H318

2.1.2. Additional information:

Full text of H phrases, hazard and EU hazard statements in Section 16.

2.2 Label elements

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

Hazard pictograms:



Signal word: **Danger.**

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Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

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

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

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

Supplemental Hazard information (EU): None.

2.3 Other hazards

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

3. Composition/Information on ingredients

3.1 Substances

Not applicable (the product is a mixture).

3.2 Mixtures

Substance	CAS No.	EC/List No.	Classification:	Concentration (%)
			According Regulation EC No. 1272/2008	
Etidronic acid	2809-21-4	220-552-8	Skin Corr. 1B; H314 Eye Dam. 1; H318	4-5
Sodium hydroxide	1310-73-2	215-185-5	Skin Corr. 1A; H314 (Eye Irrit. 2; H319: 0,5 % ≤ C < 2 % Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 %)	6.5-7.5
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	931-534-0	Skin Irrit. 2; H315 Eye Dam 1; H318	1.5-2.5
Sodium dodecyl sulphate	151-21-3	205-788-1	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam 1; H318	3.5-4.5
Propan-2-ol	67-63-0	200-661-7	Flam. Liq. 2; H225	2.5-3.5

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			Eye Irrit. 2; H319 STOT SE 3; H336	
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Additional information: For full text of H-statements: see section 16.

4. First aid measures

4.1 Description of first aid measures

General information. Get medical attention immediately.

Following skin contact. Get medical attention immediately. Immediately rinse skin with water/shower.

Following eye contact. Get medical attention immediately. Immediately wash eyes with plenty of water.

Following inhalation. Move to fresh air. Call a physician if symptoms develop or persist.

Following ingestion. Rinse mouth. If ingestion of a large amount does occur, call a poison control centre immediately.

Self-protection of the first aider: To care for their own safety!

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. In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately, number of Emergency telephone see in section 1.4.

5. Firefighting measures

General fire hazards. Clear fire area of all non-emergency personnel.

5.1 Extinguishing media

Suitable extinguishing media. Depending on the fire environment (water spray, foam, dry chemical powder or carbon dioxide (CO₂)).

Unsuitable extinguishing media. Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazard arising from the substance of mixture

Upon decomposition, this product emits carbon monoxide, carbon dioxide and etc.

5.3 Advice for firefighters

Special protective equipment for fire-fighters. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

Special fire-fighting procedures. Do not breathe fire released materials. Move containers away from fire area, if it can be done without risk. Use water mist cooling unopened containers. Cooling tanks pouring sufficient water and fire go out. Prevent the material from entering the drainage system, surface waters.

6. Accidental release measures

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6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel. Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up.

For emergency responders. Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2 Environmental precautions

Prevent contamination of soil and water. Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Prevent vapour cloud. Prevent further leakage or spillage if safe to do so. Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

6.4 Reference to other sections

For personal protection, see Section 8. For waste disposal, see section 13.

7. Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling. Put on appropriate personal protective equipment (see Section 8). Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Advice on protection against fire and explosion. Keep away from heat. Keep away from sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers closed when not in use. Do not store in direct sunlight. Store at ambient temperature and atmospheric pressure.

7.3 Specific end use(s)

Car body foam

8. Exposure Controls/Personal Protection**8.1 Control parameters**

Occupational exposure limits. No occupational exposure limits noted for the ingredient(s).

Biological limit values. No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures. Follow standard monitoring procedures.

8.2 Exposure controls

General information: Do not eat, drink, smoke at the workplace. Wash hands before breaks and after work.

APPROPRIATE ENGINEERING CONTROLS

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Provide adequate general and local exhaust ventilation.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

General information. Use personal protective equipment as required. Keep working clothes separately. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection. Wear protective goggles with side-shields according to EN 166.

Skin protection. Wear protective work clothing.

Hand protection. When contact is likely, appropriate wrist long chemical resistant gloves (EN 374).

Respiratory protection. General ventilation normally adequate. In case of inadequate ventilation or risk of inhalation of vapour, suitable respiratory equipment (breathing mask). Seek advice from local supervisor (EN 149).

Thermal hazards. Not applicable.

Hygiene measures. Handle in accordance with good industrial hygiene and safety practices. Eye wash fountain and emergency showers are recommended. Launder contaminated clothing before reuse.

8.3 Environmental exposure controls

Contain spills and prevent releases, and observe national regulations on emissions.

9. Physical and chemical properties

PHYSICAL STATE:	liquid
COLOUR:	yellow
ODOUR:	of used materials
MELTING POINT/FREEZING POINT:	not evaluated
BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE:	not evaluated
FLAMMABILITY (SOLID, LIQUID, GAS):	not flammable
FLASH POINT:	not applicable
AUTO-IGNITION TEMPERATURE:	not applicable
DECOMPOSITION TEMPERATURE:	not evaluated
pH:	12
KINEMATIC VISCOSITY:	not evaluated
SOLUBILITY:	not evaluated
PARTITION COEFFICIENT (N-OCTANOL/WATER):	not evaluated
VAPOUR PRESSURE:	not evaluated
DENSITY AND/OR RELATIVE DENSITY:	1.2 g/ml (20 °C)
RELATIVE VAPOUR DENSITY:	not evaluated
PARTICLE CHARACTERISTICS:	not applicable

9.2 Other information

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9.2.1 Information with regard to physical hazard classes

None.

9.2.2 Other safety characteristics

No additional information.

10. Persistence and reactivity

10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2 Chemical Stability

Stable at normal conditions.

10.3 Possibility of hazardous reactions

No additional information.

10.4 Conditions to avoid

High temperatures and sources of ignition.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

In case of fire, may produce hazardous fumes like carbon monoxide, carbon dioxide and etc.

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

Acute toxicity: No information available for the product.

Information on ingredients:

Etidronic acid, CAS No. 2809-21-4:

Acute Oral Toxicity: LD50 – 3130 mg/kg (rat);

Acute Dermal Toxicity: LD50 – >5000 ml/kg/24h (rabbit).

Sodium hydroxide, CAS No. 1310-73-2:

Acute Oral Toxicity: LD50 – 325 mg/kg (rabbit);

Acute Inhalation Toxicity: LC50 – 750 µg/l/2h (aerosol) (rat).

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts, CAS No. 68439-57-6:

Acute Oral Toxicity: LD50 – 2290 mg/kg (rat);

Acute Inhalation Toxicity: LC50 – >52 mg/l/4h (aerosol) (rat);

Acute Dermal Toxicity: LD50 – 6300 mg/kg/24h (rabbit).

Sodium dodecyl sulphate, CAS No. 151-21-3:

Acute Oral Toxicity: LD50 – 1200 mg/kg (rat);

Acute Dermal Toxicity: LD50 – >2000 mg/kg/24h (rat).

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Propan-2-ol, CAS No. 67-63-0:

Acute Oral Toxicity: LD50 – 5.84 g/kg (rat);

Acute Inhalation Toxicity: LC50 – 5000 ppm/6h (vapour) (rat);

Acute Dermal Toxicity: LD50 – 16.4 mg/kg/24h (rabbit).

Skin corrosion/irritation. May cause severe skin burns.

Serious eye damage/eye irritation. May cause serious eye damage.

Respiratory or skin sensitisation. Not classified.

Germ cell mutagenicity. Not classified.

Carcinogenicity. Not classified.

Reproductive toxicity. Not classified.

STOT – single exposure. Not classified.

STOT – repeated exposure. Not classified.

Aspiration hazard. Not classified.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

None.

11.2.2 Other information

No data available.

12. Ecological information**12.1 Toxicity**

No information available for the product.

Information on ingredients:

Etidronic acid, CAS No. 2809-21-4:

LC50 for marine water fish: 2180 mg/l/96h (Cyprinodon variegatus);

NOEC: 60 mg/l/14d (Oncorhynchus mykiss);

EC50 for marine water invertebrates: 1770 mg/l/48h (Palaemonetes pugio);

NOEC: 6.75 mg/l/28d (Daphnia magna);

EC50 for freshwater algae: 12 mg/l/96h.

Sodium hydroxide, CAS No. 1310-73-2:

LC50 for freshwater fish: 35-189 mg/l;

EC50 for freshwater invertebrates: 30-1000 mg/l.

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts, CAS No. 68439-57-6:

LC50 for freshwater fish: 4.2 mg/l/96h (Danio rerio);

EC50 for freshwater invertebrates: 4.53 mg/l/48h (Ceriodaphnia dubia);

EC50 for marine water invertebrates: 2.08 mg/l/48h (Acartia tonsa);

NOEC: 2.42 mg/l/21d (Daphnia magna);

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EC50 for marine water algae: 1.97 mg/l/72h (*Skeletonema costatum*);
EC10 or NOEC for marine water algae: 6.25 mg/l/72h (*Skeletonema costatum*).

Sodium dodecyl sulphate, CAS No. 151-21-3:

LC50 for freshwater fish: 29 mg/l/96h (*Pimephales promelas*);
LC50 for marine water fish: 4.1 mg/l/96h (*Cyprinodon variegatus*);
NOEC: ≥ 1.36 mg/l/42d (*Pimephales promelas*);
EC50 for freshwater invertebrates: 5.55 mg/l/48h (*Ceriodaphnia dubia*);
EC50 for marine water invertebrates: 3.15 mg/l/48h (*Artemia salina*);
NOEC: 0.88 mg/l/7d (*Ceriodaphnia dubia*);
EC50 for freshwater algae: 120 mg/l/72h (*Desmodesmus subspicatus*);
EC10 or NOEC for freshwater algae: 30 mg/l/72h (*Desmodesmus subspicatus*).

Propan-2-ol, CAS No. 67-63-0:

LC50 for freshwater fish: 9640 mg/l/96h (*Pimephales promelas*);
NOELR: >1000 mg/l/28d (*Danio rerio*);
EC50 for freshwater invertebrates: >10000 mg/l/24h (*Daphnia magna*);
NOELR: >1000 mg/l/21d (*Daphnia magna*);
LC3 for freshwater algae: 1800 mg/l/7d (*Scenedesmus quadricauda*).

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

Mobility. No data available.

12.5 Results of PBT and vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No known significant effects or critical hazards.

13. Disposal consideration**13.1 Waste treatment methods**

Residual waste. Dispose of contents/container with local/regional/national/international regulations.

Contaminated packaging. No data available.

EU waste code. No data available.

Disposal methods/information. Review federal, state/provincial, and local government requirements prior to disposal.

14. Transport information

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Transport only in accordance with ADR for road haulage, RID for rail transportation, ADN/IMDG for carriage by vessel/sea and IATA for carriage by air.

14.1 UN number or ID number. None.

14.2 UN proper shipping name. None.

14.3 Transport hazard class (es). None.

14.4 Packing group. None.

14.5 Environmental hazards. No.

14.6 Special precautions for user. Before use read the safety instructions in the safety data sheet and emergency procedures.

14.7 Maritime transport in bulk according to IMO instruments. Not applicable.

15. Regulatory information

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

- Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No.793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union No. L 396, 30-12-2006, error correction – No. L 136/3, 2007-5-29);
- COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 203, 26.6.2020, p. 28–58);
- REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents (OJ L 104/1, 8.4.2004, p.001-0035);
- The European Agreement concerning International Carriage of Dangerous Goods by Road (ADR).

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

16. Other information

16.1 Indication of changes

Information contained in the Regulation 1907/2006/EC with the Regulation 2020/878.

Indication of changes: –

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16.2 Full text of hazard and precautionary statements

H225 Highly flammable liquid and vapour.

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H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Supplemental label information: None.

Abbreviations:

Flam. Liq. 2 – Flammable liquids; Hazard Category 2.
Acute Tox. 4 – Acute toxicity (oral); Hazard Category 4.
Skin Corr. 1A – Skin corrosion; Hazard Sub-category 1A.
Skin Corr. 1B – Skin corrosion; Hazard Sub-category 1B.
Skin Irrit. 2 – Skin irritation; Hazard Category 2.
Eye Dam. 1 – Serious eye damage; Hazard Category 1.
Eye Irrit. 2 – Eye irritation; Hazard Category 2.
STOT SE 3 – Specific target organ toxicity after single exposure; Hazard Category 3.

Acronyms:

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.
RID – Regulations concerning the International Carriage of Dangerous Goods by Rail.
IMDG – International Maritime Dangerous Goods.
IATA – International Air Transport Association.
ICAO – International Civil Aviation Organization.
IMO – International Maritime Organization.
vPvB – Very Persistent and Very Bioaccumulative.
PBT – Persistent, Bioaccumulative and Toxic substance.

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LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose).

LC50 – Lethal Concentration to 50 % of a test population.

EC50 – Effective concentration to 50% of a test population (Half maximal effective concentration).

IC50 – Inhibitory concentration to 50% of a test population (Half maximal inhibitory concentration).

CAS – Chemical Abstracts Service number.

CEN – European Committee for Standardization.

STOT – Specific Target Organ Toxicity.

DNEL – Derived No-Effect Level.

PNEC – Predicted No Effect Concentration.

NOEC – No effect concentration.

STEL – Short Term Exposure Limit.

TWA – Time Weighted Averages.

SDS – Safety Data Sheet.

KEY LITERATURE REFERENCES AND SOURCES FOR DATA:

- The data provided by the European Chemicals Bureau (ECB), European Chemicals Agency (ECHA), Swedish Chemicals Agency (KEMI), International Laboratories Organization (ILO), the TOXNET Internet pages.

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