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## ПАСПОРТ КАЧЕСТВА № 23-5845/1

Жидкость тормозная Дот-4

ТУ У 20.5-212468712-002:2016 с изменениями 1

Партия №: 23-111-03  
Масса нетто, кг указано на канистре

Дата фасовки  
Вид и тип тары

08.12.2023  
кан п/е 0,5л, 1л

№	Название показателя	Норма	Факт	Метод испытания
1	Внешний вид и цвет	Однородная прозрачная жидкость от бесцветного до светло-коричневого цвета без осадка, допускается слабая опалесценция.	Соответствует	п 6.2 ТУ У 20.5-212468712-002:2016 та ДСТУ 2436 1(ГОСТ 2706 1)
2	Вязкость кинематическая, мм <sup>2</sup> /с -при -30±1 °С, не больше -при +100±0.5 °С, не менее	1900 1.5	1.545 2.5	п 6.3 ТУ У 20.5-212468712-002:2016 та ДСТУ ГОСТ 33
3	Низкотемпературные свойства * стан рідини після витримки при -(40±2) °С протягом (6.0±0.5) год -внешний вид -время прохождения пузырька воздуха через слой жидкости при перекалывании сосуда С, не более	Прозрачная жидкость без расслоений и осадка, допускается слабая опалесценция. 35	Соответствует 28	п 6.4 ТУ У 20.5-212468712-002:2016
4	Температура кипения при давлении 101.3 кПа, °С, не менее	230	233	п 6.5 ТУ У 20.5-212468712-002:2016
5	Температура кипения увлажненной жидкости при давлении 101.3 кПа, °С, не менее	155	155	п 6.6 ТУ У 20.5-212468712-002:2016
6	Стабильность при высокой температуре, °С, %, не более	3	2	п 6.7 ТУ У 20.5-212468712-002:2016
7	Влияние на резину: * а) изменение объема резины: -марки 7-2462 при (70 ± 2) °С, %, не более или б) изменение внешнего вида резины	13 Отсутствие клейкости и шелушения	2.6 Соответствует	п 6.8 ТУ У 20.5-212468712-002:2016
8	Показатель активности водородных ионов (рН), ед рН, в пределах	7.0-11.5	8.4	п 6.9 ТУ У 20.5-212468712-002:2016
9	Взаимодействие с металлами при температуре (100 ± 2) °С в течение (120 ± 2) ч * а) изменение массы пластинок, мг/см <sup>2</sup> , не более -белая жость -сталь Ст10 -алюминиевый сплав Д-16 -чугун СЧ 18-35 -латунь Л-63 -медь М-1 б) внешний вид пластинок в) состояние тормозной жидкости г) значение показателя активности водородных ионов (рН) после испытаний, ед рН, в пределах	0.2 0.2 0.1 0.2 0.4 0.4 Отсутствие признаков коррозии в виде точек, шероховатости, видим невооруженным глазом, отсутствие кристаллического осадка. Предполагается налет, легкоотираемый хлопчатобумажной и изменение цвета латунной и медной пластинок Отсутствие сгустков и кристаллов на стенках сосуда и на пластинках, допускается потемнение 7.0-11.5	0.010 0.04 -0.04 -0.18 0.23 0.09 Соответствует Соответствует 8.6	п 6.10 ТУ У 20.5-212468712-002:2016
10	Совместимость с водой: * а) при температурі мінус (30±1) °С протягом ( 24±2) год -внешний вид -время прохождения пузырька воздуха через слой жидкости при перекалывании сосуда С, не более б) при температуре (60 ± 2) °С в течение (24 ± 2) ч -внешний вид	Прозрачная жидкость без расслоений и осадка, допускается слабая опалесценция. Прозрачная жидкость без расслоений и осадка, допускается слабая опалесценция. 10 Прозрачная жидкость без расслоений и осадка, допускается слабая опалесценция.	Соответствует Соответствует 6 Соответствует	п 6.11 ТУ У 20.5-212468712-002:2016
11	Массовая доля механических примесей *	Отсутствие	Соответствует	п 6.12 ТУ У 20.5-212468712-002:2016

\*Согласно протокола периодических испытаний № 23-31 п.и от 06.06.2023

Гарантийный срок хранения – 3 года

Вывод: соответствует требованиям ТУ У 20.5-212468712-002:2016 зі зміною 1

Заведующий отделом качества Суржикова Н. Я.

Для паспорта качества

Копия для учета фасовки

Украина м. Черкассы

Печать

Подпись

Подпись



**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](mailto: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 (CO<sub>2</sub>)).

**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:  $\geq 1.36$  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:** –

Date of filling: 17-03-2023

Revision: –

Version No.: 1

### 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.

**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

Page 11 of 11

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.

**Disclaimer**

Information is correct to the best of our knowledge at the date of the SDS publication. It is not a specification sheet nor should any displayed data be construed as a specification. The information on this SDS was obtained from sources which we believe are reliable. However, the information is provide without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is use as a component in another product, this SDS information may not be applicable.

LLC «JV YUKOIL»  
48A Ivana Pulyuya str., Bila Tserkva, Kyiv region, Ukraine, 09100  
Hot-line: +38 (0) 800 60 5555  
Tel: +38 (061) 222 80 25 (laboratory)  
State register No. 31852954



Testing laboratory of JV "YUKOIL" LLC is certified for carrying out tests of quality parameters of petroleum products, technical fluids and lubricants. Certificate of technical competence recognition № AB 83-21 dated 16.11.2021 is issued by the State-owned enterprise "ZAPORIZHYASTANDARTMETROLOGIA", valid till 16.11.2024

## Quality Certificate No 16017.01.01.1

### Automatic transmission fluid YUKO ATF III

Manufacturer: JV YUKOIL LLC  
Packed by: JV YUKOIL LLC  
Quality Index: **GM Dexron III H, Mercon V, MAN 339 V-1, MAN 339**  
**7.3 V-Min 07240, 7E TE ML 04D, 44D, 46L, 47C**  
Production date: April 2024  
Package: canister 1L tin  
Batch No: 16017.15.04.24.01.



Test	Norm	Result	Test method
Density at 20°C, kg/m³, not more than	890	850,5	ASTM D1298
Kinematic viscosity at 100°C, mm²/s	6,5 - 8,5	7,47	ASTM D445
Viscosity index, not less than	160	170	ASTM D2270
Pour point, °C, not high than	- 45	- 49	ASTM D97
Open cup flash point, °C, not less than	175	205	ASTM D92
Mass fraction of mechanical impurities, %, not more than	absence	absence	GOST 6370 p. 6.3
Water content, %, not more than	absence	absence	ASTM D95
Sulfur content, %, not more than	1,0	0,040	ASTM D6481 or ASTM D6443 or ASTM D4927
Sulphated ash, %, not more than	0,1	0,016	ASTM D874
Corrosion test, points, not more than	1b		ASTM D130
Change in the weight of UIM-1 rubber after testing in oil for 72 hours at 80 ° C, %, not more	5	2,4	GOST 9.030
Foaming characteristics, cm³, not more than:			ASTM D892
- at 24°C	50/0	5	ASTM D892
- at 94°C	50/0	10	ASTM D892
- at 24°C, after 94°C	50/0	10	ASTM D892
Colour	red	red	visually

Result: the product quality meets the standard of

seal Head of Quality Assurance Department









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

## ПАСПОРТ КАЧЕСТВА № 23-5388/p

Масло моторное  
M10Г2K SAE 30

Партия №: 23-295-02  
Масса нетто, кг указано на канистре

Дата изготовления  
Дата фасовки

09.11.2023  
13.11.2023

№	Название показателя	Норма	Факт	Метод испытания
1	Вязкость кинематическая, мм <sup>2</sup> /с при 100°C, не менее	10	10,25	дсту ГОСТ 33
2	Индекс вязкости, не менее	100	115	дсту ГОСТ 25371
3	Щелочное число, мг КОН на 1 г. масла, не менее	3,4	4,83	ГОСТ 11362
4	Температура вспышки в открытом тигле, °C, не ниже	205	225	дсту ГОСТ 4333
5	Температура застывания, °C, не выше	-18	-19	ГОСТ 20287
6	Плотность при 20°C, г/см <sup>3</sup> , не более	0,910	0,872	ГОСТ 3900
7	Цвет на колориметре ЦНТ единиц ЦНТ, не более, с разведением 15:85	4,0	1,2	ГОСТ 20284
8	Массовая доля активных элементов,%, не менее:			ГОСТ 13538
	- кальций	0,1	0,1	
	- цинк	0,02	0,02	
9	Зольность сульфатная,%, не более *	0,8	0,47000	дсту ГОСТ 12417

Гарантийный срок хранения – 5 лет

Ответственный за анализ

Контроль качества упаковки Бабенкова Т.Т.

Печать



Подпись

Подпись



**LLC «JV YUKOIL»**

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**Quality Certificate No 04100.01.01.1****Four-stroke engine oil YUKO MASTER SYNT 4T 10W-30**

Manufacturer JV YUKOIL LLC

Packed by JV YUKOIL LLC

Viscosity grade: **SAE 10W-30**Quality Index: **API SL/CF, JASO MA2**

Production date: January 2024

Package: canister 1L PE

Batch No: 04100.25.01.24.01.



Test	Norm	Result	Test method
Density at 20°C, kg/m³, not more than	900	873,1	ASTM D1298
Kinematic viscosity at 100°C, mm²/s	9,3 - 12,5	11,53	ASTM D445
Viscosity index, not less than	130	138	ASTM D2270
Open cup flash point, °C, not less than	200	216	ASTM D92
Pour point, °C, not high than	- 32	- 37	ASTM D97
Mass fraction of mechanical impurities, %, not more than	0,025	0,023	GOST 6370
Water content, %, not more than	traces	traces	ASTM D95
Color on colorimetr, in diluted ratio 15:85, not more	3,5	1,0	ASTM D1500
TBN, mg KOH/g, not less than	5,5	6,03	ASTM D4739 or ASTM D2896
Mass fraction of active elements, %, not less than			ASTM D6481 or ASTM D6443 or ASTM D4927
- calcium	0,2	0,222	ASTM D6481 or ASTM D6443 or ASTM D4927
- zinc	0,08	0,088	ASTM D6481 or ASTM D6443 or ASTM D4927
Sulphated ash, %, not more than	1,2	0,89	ASTM D874
CCS at minus 25°C, mPa, not more than	7 000	6 589	ASTM D5293

**Result: the product quality meets the standard of**

seal

Head of Quality Assurance Department

**WEB:** www.yuko.eu**Hot-line:** +38 (0) 800 60 5555**E-mail:** support@yukoil.com**Tel.:** +38 (061) 222 80 32**Member of:**



# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## JCB EP Transmission Fluid 10W

Version	Revision Date:	SDS Number:	Print Date: 11/26/2020
1.0	11/25/2020	800010048025	Date of last issue: -

### SECTION 1. IDENTIFICATION

Product name : JCB EP Transmission Fluid 10W

Product code : 001J1349

#### Manufacturer or supplier's details

Manufacturer/Supplier : **Shell Oil Products US**  
PO Box 4427  
Houston TX 77210-4427  
USA

SDS Request : (+1) 877-276-7285  
Customer Service :

#### Emergency telephone number

Spill Information : 877-504-9351  
Health Information : 877-242-7400

#### Recommended use of the chemical and restrictions on use

Recommended use : Transmission oil.

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data this substance / mixture does not meet the classification criteria.

#### GHS label elements

Hazard pictograms : No Hazard Symbol required

Signal word : No signal word

Hazard statements : **PHYSICAL HAZARDS:**  
Not classified as a physical hazard under GHS criteria.  
**HEALTH HAZARDS:**  
Not classified as a health hazard under GHS criteria.  
**ENVIRONMENTAL HAZARDS:**  
Not classified as an environmental hazard under GHS criteria.

Precautionary statements : **Prevention:**  
No precautionary phrases.  
**Response:**  
No precautionary phrases.  
**Storage:**  
No precautionary phrases.

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### Disposal:

No precautionary phrases.

### Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Used oil may contain harmful impurities.

Not classified as flammable but will burn.

The classification of this material is based on OSHA HCS 2012 criteria.

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Highly refined mineral oils and additives.  
The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

\* contains one or more of the following CAS-numbers: 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69-9, 68649-12-7, 151006-60-9, 163149-28-8.

### Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *		Not Assigned	0 - 90
Overbased sulphurised calcium phenate	Phenol, dodecyl-, sulfurized, carbonates, calcium salts, over-based	68784-26-9	1 - 3
Zinc dialkyldithiophosphate	zinc bis[O,O-bis(2-ethylhexyl)]bis(dithiophosphate)	4259-15-8	1 - 2.49
Alkylphenol	dodecylphenol	27193-86-8	0.1 - 0.249

## SECTION 4. FIRST-AID MEASURES

If inhaled : No treatment necessary under normal conditions of use.  
If symptoms persist, obtain medical advice.

In case of skin contact : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.

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According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## JCB EP Transmission Fluid 10W

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	If persistent irritation occurs, obtain medical attention.
In case of eye contact	: Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Continue rinsing. If persistent irritation occurs, obtain medical attention.
If swallowed	: In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
Most important symptoms and effects, both acute and delayed	: Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.
Protection of first-aiders	: When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.
Indication of any immediate medical attention and special treatment needed	: Treat symptomatically.

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### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	: Do not use water in a jet.
Specific hazards during fire-fighting	: Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for firefighters	: Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Avoid contact with skin and eyes.
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According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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|---|---|
| Environmental precautions                             | : Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.<br><br>Local authorities should be advised if significant spillages cannot be contained.                                |
| Methods and materials for containment and cleaning up | : Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly. |
| Additional advice                                     | : For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.  |
- 

### SECTION 7. HANDLING AND STORAGE

- |  |  |
|--|--|
| Technical measures                       | : Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.   |
| Advice on safe handling                  | : Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. |
| Avoidance of contact                     | : Strong oxidising agents.   |
| Product Transfer                         | : Proper grounding and bonding procedures should be used during all bulk transfer operations to avoid static accumulation.   |
| Further information on storage stability | : Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.<br><br>Store at ambient temperature.   |
| Packaging material                       | : Suitable material: For containers or container linings, use mild steel or high density polyethylene. Unsuitable material: PVC.   |
| Container Advice                         | : Polyethylene containers should not be exposed to high tem-   |

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peratures because of possible risk of distortion.

### SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
Oil mist, mineral		TWA (Inhalable particulate matter)	5 mg/m <sup>3</sup>	ACGIH

#### Biological occupational exposure limits

No biological limit allocated.

#### Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods <http://www.cdc.gov/niosh/>

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods <http://www.osha.gov/>

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances <http://www.hse.gov.uk/>

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany <http://www.dguv.de/inhalt/index.jsp>

L'Institut National de Recherche et de Sécurité, (INRS), France <http://www.inrs.fr/accueil>

#### Engineering measures

: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:  
Adequate ventilation to control airborne concentrations.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

#### General Information:

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective

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According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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equipment, local exhaust ventilation.  
Drain down system prior to equipment break-in or maintenance.  
Retain drain downs in sealed storage pending disposal or subsequent recycle.  
Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.  
Practice good housekeeping.

### Personal protective equipment

Respiratory protection : No respiratory protection is ordinarily required under normal conditions of use.  
In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material.  
If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation.  
Check with respiratory protective equipment suppliers.  
Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.  
Select a filter suitable for the combination of organic gases and vapours and particles [Type A/Type P boiling point >65°C (149°F)].

Hand protection  
Remarks

: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

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Eye protection	:	If material is handled such that it could be splashed into eyes, protective eyewear is recommended.
Skin and body protection	:	Skin protection is not ordinarily required beyond standard work clothes. It is good practice to wear chemical resistant gloves.
Protective measures	:	Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.
Thermal hazards	:	Not applicable

### Environmental exposure controls

General advice	:	Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Section 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.
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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid at room temperature.
Colour	:	amber
Odour Threshold	:	Data not available
pH	:	Not applicable
pour point	:	-36 °C / -33 °F Method: ISO 3016
Initial boiling point and boiling range	:	> 280 °C / 536 °F estimated value(s)
Flash point	:	200 °C / 392 °F  Method: ISO 2592
Evaporation rate	:	Data not available
Flammability (solid, gas)	:	Data not available
Upper explosion limit / upper flammability limit	:	Typical 10 %(V)
Lower explosion limit / Lower	:	Typical 1 %(V)

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According to OSHA Hazard Communication Standard, 29 CFR  
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flammability limit

Vapour pressure : < 0.5 Pa (20 °C / 68 °F)

estimated value(s)

Relative vapour density : > 1  
estimated value(s)

Relative density : 0.884 (15 °C / 59 °F)

Density : 884 kg/m<sup>3</sup> (15.0 °C / 59.0 °F)  
Method: ISO 12185

Solubility(ies)  
Water solubility : negligible

Solubility in other solvents : Data not available

Partition coefficient: n-octanol/water : log Pow: > 6  
(based on information on similar products)

Auto-ignition temperature : > 320 °C / 608 °F

Decomposition temperature : Data not available

Viscosity  
Viscosity, dynamic : Data not available

Viscosity, kinematic : 36 mm<sup>2</sup>/s (40.0 °C / 104.0 °F)

Method: ISO 3104

6 mm<sup>2</sup>/s (100 °C / 212 °F)

Method: ISO 3104

Explosive properties : Not classified

Oxidizing properties : Data not available

Conductivity : This material is not expected to be a static accumulator.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity : The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

Chemical stability : Stable.

Possibility of hazardous reactions : Reacts with strong oxidising agents.

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Conditions to avoid	:	Extremes of temperature and direct sunlight.
Incompatible materials	:	Strong oxidising agents.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

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### SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment : Information given is based on data on the components and the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

#### Information on likely routes of exposure

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50 (rat): > 5,000 mg/kg  
Remarks: Low toxicity:  
Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Remarks: Low toxicity:  
Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation

##### Product:

Remarks: Slightly irritating to skin., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis., Based on available data, the classification criteria are not met.

#### Serious eye damage/eye irritation

##### Product:

Remarks: Slightly irritating to the eye., Based on available data, the classification criteria are not met.

##### Components:

##### **Zinc dialkyldithiophosphate:**

Remarks: Based on available data, the classification criteria are not met.

#### Respiratory or skin sensitisation

##### Product:



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Remarks: Not a skin sensitiser.  
Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

#### Product:

: Remarks: Non mutagenic, Based on available data, the classification criteria are not met.

### Carcinogenicity

#### Product:

Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

#### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

#### Product:

:  
Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are not met.

### STOT - single exposure

#### Product:

Remarks: Based on available data, the classification criteria are not met.

### STOT - repeated exposure

#### Product:

Remarks: Based on available data, the classification criteria are not met.

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR  
1910.1200

## JCB EP Transmission Fluid 10W

Version  
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11/25/2020

SDS Number:  
800010048025

Print Date: 11/26/2020  
Date of last issue: -

### Aspiration toxicity

#### Product:

Not an aspiration hazard.

### Further information

#### Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Slightly irritating to respiratory system.

## SECTION 12. ECOLOGICAL INFORMATION

Basis for assessment : Ecotoxicological data have not been determined specifically for this product.  
Information given is based on a knowledge of the components and the ecotoxicology of similar products.  
Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).

### Ecotoxicity

#### Product:

Toxicity to fish (Acute toxicity) : Remarks: LL/EL/IL50 > 100 mg/l  
Practically non toxic:  
Based on available data, the classification criteria are not met.

Toxicity to daphnia and other aquatic invertebrates (Acute toxicity) : Remarks: LL/EL/IL50 > 100 mg/l  
Practically non toxic:  
Based on available data, the classification criteria are not met.

Toxicity to algae (Acute toxicity) : Remarks: LL/EL/IL50 > 100 mg/l  
Practically non toxic:  
Based on available data, the classification criteria are not met.

Toxicity to fish (Chronic toxicity) : Remarks: Data not available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Data not available

Toxicity to microorganisms (Acute toxicity) : Remarks: Data not available

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR  
1910.1200

## JCB EP Transmission Fluid 10W

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Print Date: 11/26/2020  
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### Components:

#### **Alkylphenol:**

M-Factor (Acute aquatic tox- : 10  
icity)

M-Factor (Chronic aquatic : 10  
toxicity)

### **Persistence and degradability**

#### Product:

Biodegradability : Remarks: Not readily biodegradable.  
Major constituents are inherently biodegradable, but contains  
components that may persist in the environment.  
Persistent per IMO criteria.  
International Oil Pollution Compensation (IOPC) Fund defini-  
tion: "A non-persistent oil is oil, which, at the time of shipment,  
consists of hydrocarbon fractions, (a) at least 50% of which,  
by volume, distills at a temperature of 340°C (645°F) and (b)  
at least 95% of which, by volume, distills at a temperature of  
370°C (700°F) when tested by the ASTM Method D-86/78 or  
any subsequent revision thereof."

### **Bioaccumulative potential**

#### Product:

Bioaccumulation : Remarks: Contains components with the potential to bioac-  
cumulate.

### **Mobility in soil**

#### Product:

Mobility : Remarks: Liquid under most environmental conditions.  
If it enters soil, it will adsorb to soil particles and will not be  
mobile.

Remarks: Floats on water.

### **Other adverse effects**

#### Product:

Additional ecological infor- : Does not have ozone depletion potential, photochemical  
mation ozone creation potential or global warming potential.  
Product is a mixture of non-volatile components, which will not  
be released to air in any significant quantities under normal  
conditions of use.

Poorly soluble mixture.  
Causes physical fouling of aquatic organisms.

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## JCB EP Transmission Fluid 10W

Version  
1.0

Revision Date:  
11/25/2020

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Print Date: 11/26/2020  
Date of last issue: -

Mineral oil does not cause chronic toxicity to aquatic organisms at concentrations less than 1 mg/l.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Recover or recycle if possible.  
It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.  
Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.  
Do not dispose into the environment, in drains or in water courses  
Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.  
Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

Contaminated packaging : Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.  
Disposal should be in accordance with applicable regional, national, and local laws and regulations.

#### Local legislation

Remarks : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

### SECTION 14. TRANSPORT INFORMATION

#### National Regulations

##### US Department of Transportation Classification (49 CFR Parts 171-180)

Not regulated as a dangerous good

#### International Regulations

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

#### Special precautions for user

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## JCB EP Transmission Fluid 10W

Version	Revision Date:	SDS Number:	Print Date: 11/26/2020
1.0	11/25/2020	800010048025	Date of last issue: -

Remarks : Special Precautions: Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

### SECTION 15. REGULATORY INFORMATION

#### EPCRA - Emergency Planning and Community Right-to-Know Act

\*: This material does not contain any components with a CERCLA RQ., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Zinc dialkyldithiophosphate	4259-15-8	>= 1 - < 5 %
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#### Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

#### US State Regulations

##### Pennsylvania Right To Know

Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9
Zinc dialkyldithiophosphate	4259-15-8
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0
Distillates (petroleum), hydrotreated light	64742-47-8

##### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

##### California List of Hazardous Substances

Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9
Zinc dialkyldithiophosphate	4259-15-8

#### Other regulations:

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

#### The components of this product are reported in the following inventories:

EINECS : Not established.

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR  
1910.1200

## JCB EP Transmission Fluid 10W

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TSCA : All components listed.

DSL : All components listed.

### SECTION 16. OTHER INFORMATION

#### Further information

NFPA Rating (Health, Fire, Reactivity) 0, 1, 0

#### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	: 8-hour, time-weighted average
OSHA Z-1 / TWA	: 8-hour time weighted average
Abbreviations and Acronyms	: The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.

ACGIH = American Conference of Governmental Industrial Hygienists  
ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road  
AICS = Australian Inventory of Chemical Substances  
ASTM = American Society for Testing and Materials  
BEL = Biological exposure limits  
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes  
CAS = Chemical Abstracts Service  
CEFIC = European Chemical Industry Council  
CLP = Classification Packaging and Labelling  
COC = Cleveland Open-Cup  
DIN = Deutsches Institut für Normung  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
DSL = Canada Domestic Substance List  
EC = European Commission  
EC50 = Effective Concentration fifty  
ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals  
ECHA = European Chemicals Agency  
EINECS = The European Inventory of Existing Commercial Chemical Substances  
EL50 = Effective Loading fifty  
ENCS = Japanese Existing and New Chemical Substances Inventory  
EWC = European Waste Code  
GHS = Globally Harmonised System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer



# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR  
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IATA = International Air Transport Association  
IC50 = Inhibitory Concentration fifty  
IL50 = Inhibitory Level fifty  
IMDG = International Maritime Dangerous Goods  
INV = Chinese Chemicals Inventory  
IP346 = Institute of Petroleum test method N° 346 for the  
determination of polycyclic aromatics DMSO-extractables  
KECI = Korea Existing Chemicals Inventory  
LC50 = Lethal Concentration fifty  
LD50 = Lethal Dose fifty per cent.  
LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading  
LL50 = Lethal Loading fifty  
MARPOL = International Convention for the Prevention of  
Pollution From Ships  
NOEC/NOEL = No Observed Effect Concentration / No Ob-  
served Effect Level  
OE\_HP V = Occupational Exposure - High Production Volume  
PBT = Persistent, Bioaccumulative and Toxic  
PICCS = Philippine Inventory of Chemicals and Chemical  
Substances  
PNEC = Predicted No Effect Concentration  
REACH = Registration Evaluation And Authorisation Of  
Chemicals  
RID = Regulations Relating to International Carriage of Dan-  
gerous Goods by Rail  
SKIN\_DES = Skin Designation  
STEL = Short term exposure limit  
TRA = Targeted Risk Assessment  
TSCA = US Toxic Substances Control Act  
TWA = Time-Weighted Average  
vPvB = very Persistent and very Bioaccumulative

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Sources of key data used to compile the Safety Data Sheet : The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID data base, EC 1272 regulation, etc).

Revision Date : 11/25/2020

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

	<b>ALCO QUALITY ASSURANCE LABORATORY</b> <b>TEST REPORT</b> 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.:** 2024160  
**Date of issue:** 28/01/2024

### Test sample

**Product:** AVTOIL ISO 46 (HLP)  
**Batch number:** 2401160  
**Tank ID:** T41.2

**Manufacture date:** 28/01/2024  
**Date of sampling:** 28/01/2024  
**Date of analysis:** 28/01/2024

### Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 40 °C	mm <sup>2</sup> /s	ASTM D445	41.4-50.6	46.12	Pass
Viscosity index	-	ASTM D2270	Min. 90	97	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	-27	Pass
Color	-	ASTM D1500	Test & Report	0.4	Pass
Density at 20 °C	g/cm <sup>3</sup>	ASTM D4052	Test & Report	0.8720	Pass

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

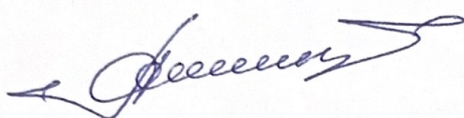
**Shelf life:** 5 years from the date of manufacture of the product if proper storage conditions are followed.

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 singnatory**



Allahverdiyeva Aytan  
Head of Laboratory



Isgandarli Nazrin  
Chemical Engineer







MINISTERUL SĂNĂTĂȚII  
AL REPUBLICII MOLDOVA

МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ  
РЕСПУБЛИКИ МОЛДОВА

AGENȚIA NAȚIONALĂ PENTRU SĂNĂTATE PUBLICĂ  
НАЦИОНАЛЬНОЕ АГЕНТСТВО ОБЩЕСТВЕННОГО ЗДОРОВЬЯ

MD-2028, muș. Chișinău, str. Gheorghe. Asachi, 67-a  
Tel. + 373 22 574501, fax + 373 22 729725  
IDNO 1018601000021

E-mail: office@ansp.gov.md

DOCUMENTAȚIE MEDICALĂ / Медицинская документация  
FORMULAR / Форма Nr. 303-2/e  
APROBAT DE MS al RM / Утверждена МЗ РМ 31.10.11 Nr. 828

Centrul de încercări de laborator acreditat de către  
Centrul Național de Acreditare din Republica Moldova MOLDAC  
Испытательный лабораторный центр аккредитованный  
Национальным Аккредитационным Центром РМ MOLDAC  
Certificat nr. LI-044 din 17.02.2018 valabil până la 16.02.2022

AVIZ SANITAR  
PENTRU PRODUSELE ALIMENTARE ȘI NEALIMENTARE Nr.

Санитарное заключение для пищевых и непищевых продуктов

din/om " 12 "

octombrie

a./z. 2021

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

Lichid pentru sisteme SCR (euro 4, euro 5)

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 41279445-001:2021, IT MD 41279445-001:2021, Rț MD 41279445-001:2021, Indicațiilor metodice  
nr.341 din 15.04.2014"Metode de determinare și evaluare a unor indici toxicologici și clinici a siguranței  
și inofensivității unor categorii de produse cu impact potențial asupra sănătății"

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

"AMID-AUTO" SRL, Republica Moldova

Destinatarul avizului sanitar / получатель санитарного заключения

"AMID-AUTO" SRL, Moldova, Chișinău, str. Independenței, 42, ap.20

Ca 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 nr.003895/2019/1955 din 31.07.2021, standard de firmă,  
instrucțiune tehnologică, rețeta, raport a încercărilor de laborator nr.6555 din 04.10.2021  
(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 raportului încercărilor de laborator nr.6555 din 04.10.2021

Domeniu de utilizare / Область применения:

îngrijire 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 până la / Санитарное Заключение действительно до: 30 octombrie 2024

DIRECTORUL AGENȚIEI NAȚIONALE PENTRU SĂNĂTATE PUBLICĂ

Int.

Vasile GUȘTIUC

(numele, prenumele/ Ф.И.О.)



(semnătura / подпись)

ANSP/HA03

0003354

03

ex:Șt.Constantinoviici  
tel: 574 529



MINISTERUL SĂNĂTĂȚII AL REPUBLICII MOLDOVA  
МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ  
РЕСПУБЛИКИ МОЛДОВА  
AGENCIA NAȚIONALĂ PENTRU SĂNĂTATE PUBLICĂ  
НАЦИОНАЛЬНОЕ АГЕНТСТВО ОБЩЕСТВЕННОГО  
ЗДОРОВЬЯ

MD-2028, mun. Chișinău, str. Gheorghe. Asachi, 67 a  
Tel. + 373 22 574501, fax + 373 22 729725  
IDNO 1018601000021  
e-mail: [office@ansp.gov.md](mailto:office@ansp.gov.md)



DOCUMENTAȚIE MEDICALĂ / Медицинская документация  
FORMULAR / Форма Nr. 303-2 e  
APROBAT DE MS al RM / Утверждена МЗ РМ Nr. 828  
от 31.10.11  
Centrul de încercări de laborator acreditat de către Centrul  
Național de Acreditare din Republica Moldova MOLDAC  
Испытательный лабораторный центр аккредитованный  
Национальным Аккредитационным Центром РМ MOLDAC  
Certificat nr. LI-044 din 17.02.2018 valabil până la 16.02.2022

## AVIZ SANITAR PENTRU PRODUSELE ALIMENTARE ȘI NEALIMENTARE Nr. P-13272/2022

*Санитарное заключение для пищевых и непищевых продуктов*

din/от 04 martie 2022

**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*

"AD-BLUE" – soluție apoasă de uree SCR-Euro 6

**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 41279445-001:2021, Indicațiilor metodice nr.341 din 15.04.2014 "Metode de determinare și evaluare a unor indici toxicologici și clinici a siguranței și inofensivității unor categorii de produse cu impact potențial asupra sănătății"

**Organizația-productoare/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, 2072

**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 nr.P-0616/2019 din 23.03.2019, standard de firmă, raport de încercări nr.171 din 23.09.2021, raport a încercărilor de laborator nr.732 din 03.03.2022

*(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 raportului încercărilor de laborator nr.732 din 03.03.2022

**Domeniu de utilizare / Область применения:**

îngrijire auto – adziv pentru motoarele diesel SCR

**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 действенно до: 31.03.2025**

**DIRECTORUL AGENTIEI NAȚIONALE PENTRU SĂNĂTATE PUBLICĂ**

**Nicolae Jelamschi**

Digitally signed by Nicolae Jelamschi  
Date: 2022.03.04 13:37:45 EET  
Reason: MoldSign Signature  
(personal and confidential)



(semnătura / подпись)

**ANSP/HAO3**

**0000617**



**03**

**L.Ș.**

**SP**

**10-XVI-09**





Mobil Pegasus™ 705

Mobil Industrial , Russia  
Масло для газовых двигателей

Описание продукта

Mobil Pegasus 705 - высококачественное масло для газовых двигателей класса вязкости SAE 40 с высокими эксплуатационными характеристиками, разработанное для применения в широкой линейке двигателей, работающих на природном газе. Рекомендуется для высокооборотных четырехтактных двигателей, чувствительных к износу клапанов и седла и работающих на стехиометрических и обедненных смесях. Это масло также рекомендует для смазывания газовых компрессоров и разнообразных двигателей, требующих применения малозольного масла. Масло Mobil Pegasus 705 создано на основе тщательно отобранных высококачественных минеральных базовых масел и современных присадок, разработанных для обеспечения защиты деталей двигателей и компрессоров и снижения уровня отложений в камере сгорания. Это масло обладает химической стабильностью и стойкостью к окислению и нитрованию, в результате чего достигается более продолжительный срок службы масла и снижаются затраты на замену фильтров. Эти улучшенные эксплуатационные параметры в сочетании с эффективными моющими и диспергирующими свойствами сводят к минимуму образование зольных отложений и нагара, которые могут ухудшать эксплуатационные характеристики двигателя и вызывать детонацию.

Масло Mobil Pegasus 705 обладает эффективными антикоррозионными свойствами, предотвращающими коррозионный износ цилиндров, клапанов и подшипников, благодаря чему достигается более продолжительный срок службы двигателя. Высокий уровень противоизносных характеристик этого масла способствует снижению износа колец, гильз цилиндров и подшипников. Масло Mobil Pegasus 705 также обеспечивает надежную защиту седел и клапанов, снижает износ и образование отложений в ответственных зонах направляющих втулок клапанов работающих под высокой нагрузкой четырехтактных двигателей с турбонаддувом.

Особенности и преимущества

Масло Mobil Pegasus 705 для газовых двигателей обеспечивает более высокую степень чистоты, замедляет износ и улучшает эксплуатационные характеристики двигателей. Свойства этого продукта особенно хорошо проявляются в увеличении срока службы клапанов и улучшении эксплуатационных характеристик высокоскоростных четырехтактных двигателей, в том числе новейших конструкций, эксплуатируемых на обедненных смесях при высоких нагрузках. В результате снижаются эксплуатационные затраты и повышается производительность. Химическая и окислительная стабильность приводит к увеличению интервалов замены масла и снижению затрат на фильтры. Применение Mobil Pegasus 705 снижает образование зольных отложений и нагара в камерах сгорания, что способствует уменьшению затрат на техническое обслуживание при одновременном улучшении эксплуатационных характеристик двигателей и сокращении затрат на топливо.

Особенности	Преимущества и потенциальные выгоды
Эффективные противоизносные и противозадирные свойства.	Снижение износа деталей двигателя. Уменьшение образования задиров на гильзах цилиндров газовых двигателей, работающих под высокой нагрузкой. Надежная защита при обкатке двигателя.
Высокоэффективная окислительная и химическая стабильность.	Повышение чистоты двигателя. Увеличенный интервал замены масла. Сокращение затрат на замену фильтров. Высокая стойкость к окислению и нитрованию. Уменьшение образования кокса и отложений во внутренней полости поршня.
Малозольный состав масла.	Снижение износа седел, фасок и направляющих втулок клапанов. Предотвращение образования золы и сажи в камерах сгорания и улучшение работы системы зажигания. Улучшенные эксплуатационные характеристики двигателя. Снижение затрат на топливо.
Устойчивость к коррозии.	Снижение износа направляющих клапанов в четырехтактных газовых двигателях. Защита подшипников и внутренних узлов.

Особенности	Преимущества и потенциальные выгоды
Эффективные моющие и диспергирующие свойства.	Повышение чистоты двигателя. Меньше отложений в верхней части цилиндров. Увеличение срока службы фильтров. Сокращение затрат на техническое обслуживание.

Применение

- Высокооборотные газовые двигатели, работающие на обедненных или стехиометрических смесях, чувствительные к износу седел клапанов.
- Картеры и рабочие цилиндры двух- и четырехтактных газовых двигателей с искровым зажиганием.
- Рекомендовано для применения в тех областях, где требуется масло малозольного состава.
- Цилиндры поршневых компрессоров для перекачки природного газа.
- Двигатели высокой или номинальной мощности, работающие в режиме номинальной мощности или с ее превышением в условиях высокой темпера
- Двигатели, работающие на топливе с низким содержанием сероводорода.

Спецификации и одобрения

Продукция имеет следующие одобрения:
INNIO Jenbacher TI 1000-1108 (Class A fuel gas, Type 9)
INNIO Jenbacher TI 1000-1109 (Class A fuel gas, Type 2, 3, 4 & 6)
INNIO Jenbacher TI 1000-1109 (Class B fuel gas, Type 4 & 6)
MAN M 3271-2
MTU Gas Engines S4000 L32, L33 using natural gas
MWM TR 0199-99-2105, Lube Oils for Gas Engines: TCG2016 < 48.5 kWe / cyl. TCG2020 < 95.0 kWe / cyl. TCG2032 < 260.0 kWe / cy
Perkins Gas Engine Oil - Natural Gas
Wartsila 220SG
Wartsila 28SG
Wartsila 32DF
Wartsila 34SG
Wartsila W12V150SG, W12V175SG, W16V175SG
Wartsila W25SG
Rolls-Royce Solutions Augsburg (former MTU Onsite Energy) Gas Engines Series 400 - all engines with natural gas and propane gas
MTU Gas Engines S4000 L61, L62, L63 using natural gas
INNIO Jenbacher TI 1000-1109 (Class C fuel gas, Type 4A, 4B & 4C)

Продукция соответствует следующим требованиям или превосходит их:
Caterpillar

Свойства и характеристики

Свойство	
Класс	SAE 40
Температура застывания, °C, ASTM D97	-18
Зольность сульфатная, % масс., ASTM D874	0,5
Кинематическая вязкость при 100°C, мм2/с, ASTM D445	13.2
Температура вспышки в открытом тигле Кливленда, °C, ASTM D 92	252
Плотность при 15 C, кг/л, РАСЧЕТНАЯ	0,887
Щелочное число - ксилол/уксусная кислота, мг KOH/г, ASTM D2896	5,7
Кинематическая вязкость при 40°C, мм2/с, ASTM D445	126
Индекс вязкости, ASTM D2270 (*)	98

(\*) применение иных одобренных ASTM растворителей может давать другие результаты.

Охрана труда и техника безопасности

Рекомендации по охране труда и технике безопасности для данного продукта приведены в «Бюллетене данных по безопасности», который размеще адресу <http://www.msds.exxonmobil.com/psims/psims.aspx>

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