

**SAFETY DATA SHEET**

Date: 23.03.2023.

According to Regulation (EC) No. 1907/2006 (REACH)

Version: 1

Guardian Universal Maintenance Oil

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

1.1. Product name: Product identifier	Guardian Universal Maintenance Oil Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) EC no 919-446-0.
1.2. Relevant identified uses of the substance or mixture and uses advised against	Oil for decorative protection of wooden surfaces. No uses advised against identified.
1.3. Details of the supplier of the safety data sheet: Adress: Telephone: E-mail: E-mail for sds:	EkoLak d.o.o. Vučić bb, 34210 Rača Serbia +381 34 355 339 info@ekolak.rs milica.pavkov@deltapak.rs
1.4. Emergency telephone number:	+ 381 11 3608 440

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 as amended:

Specific target organ toxicity – repeated, category 2 H373;
Chronic hazards to the aquatic environment category 3 H412.

2.2 Label Elements**Pictogram:**

GHS 08

Signal words: Warning.**Hazard Statements:**



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H 373 May cause damage to organs through prolonged or repeated exposure

H 412 Harmful to aquatic life with long lasting effects.

Precautionary Statements:

P 260 Do not breathe gas/mist/vapours/spray.

P 273 Avoid release to the environment.

P 314 Seek medical advice/observation if you feel unwell.

P 501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

EUH 208: Contains Neodecanoic acid, cobalt salt CAS no 27253-31-2 and Turpentine oil CAS no 8006-64-2. May produce an allergic reaction.

2.3 Other hazards:

By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control. This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

No data available.

3.2 Mixtures

Oil that contains tung, natural oils and synthetic oil, which is also a combination of natural oils and hardeners.

Chemical name	CAS no.	EC no.	Identifier	Classification	Concentration %
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	/	919-446-0		Flam. Liq. 3 H226; Asp. Tox. 1 H304; STOT SE 3 H336; STOT RE 1 H372 (central nervous.); Aquatic Chronic 2H411. EUH 066	< 10
2-ethylhexanoic acid, manganese salt	15956-58-8	240-085-3		Eye Irrit. 2 H319; Repr. 2 H361d; STOT RE 2 H373; Aquatic Chronic 2 H411.	<0,4
Calcium bis(2-ethylhexanoate)	136-51-6	205-249-0		Acute Tox. 4 H302; Eye Dam. 1 H318; Repr. 2 H361d.	<0,3
Neodecanoic acid, cobalt salt	27253-31-2	248-373-0		Acute Tox. 4 H302; Skin Sens. 1 H317; STOT RE 1 H372 (gastro-intestin); Aquatic Chronic 3 H412.	<0,3

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Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		918-481-9		Asp.tox. 1 H304.	<0,25
Turpentine oil	8006-64-2	232-350-7	650-002-00-6	Flam. Liq. 3 H226; Acute Tox. 4 H302; Acute Tox. 4 H312; Skin Irrit. 2 H315; Eye Irrit. 2 H319; Skin Sens. 1 H317; Acute Tox. 4 H332; Asp. Tox. 1 H304; Aquatic Chronic 2 H411.	<0,25
Kerosine (petroleum) hydrodesulfurized		265-184-9	649-423-00-8	Asp.tox.1 H304.	<0,2
Butanone oxime	96-29-7	202-496-6	616-014-00-0	Acute Tox. 3 H301; Acute Tox. 4 H312; Skin Irrit. 2 H315; Eye Dam. H318; Skin Sens. 1 H317; STOT SE 3 H336; Carc. 1B H350; STOT SE 1 H370 (upper respiratory tract); STOT RE 2 H373 (blood system).	<0,1

For the wording of the listed hazard statements refer to section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

General: There are no dangers that would require special emergency measures. Instantly remove any clothing soiled by the product.

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Skin Contact: Wash with soap and water. Get medical attention if symptoms occur (skin irritation).

Eye contact: Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

Ingestion: Do not induce vomiting. Rinse mouth thoroughly. Get medical attention if symptoms occur.

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

No symptoms are known or expected.

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

Treat symptomatically. There are no hazards that require special first aid measures.

SECTION 5: Firefighting measures

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5.1. Extinguishing media

It is used for fire prevention measures that are suitable for local conditions and the surrounding environment.

Suitable extinguishing media: CO₂, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added.

Unsuitable extinguishing media: Water with a full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: carbon dioxide and carbon monoxide. Their inhalation is very dangerous.

Symptoms may not be immediately apparent. Get medical help.

5.3. Advice for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move container from fire area if it can be done without risk. Dispose of fire residues and fire-fighting water contamination in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

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

See protective measures in sections 7 and 8. In case of spills, beware of slippery floors and surfaces. Keep unauthorized personnel away.

6.2. Environmental Precautions

Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

6.4. Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling. See Section 13 for information on disposal.

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

Prevent formation of aerosols. Avoid contact with skin. Wash your hands after handling. Provide adequate ventilation. Do not eat, drink or smoke in the work area. Remove contaminated clothing and protective equipment before entering the food area. Never put chemicals in packaging that is normally used for food or drink.

7.2. Conditions for safe storage, including any incompatibilities

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Store in well-closed original packaging in a dry, cool and well-ventilated place, away from heat sources. Store above freezing temperature and below ignition temperature. Keep away from food, drink and animal feed.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**Podpoglavlje 8.1. Control Parameters***Occupational Exposure Limits*

None of the components have assigned exposure limits.

Derived No- or Minimal Effect Level (DN(M)EL):

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) EC no 919-446-0

Inhalation exposure

330 mg/m³ long term systemic effects for workers71 mg/m³ long term systemic effects for general population570 mg/m³ acute local effects for workers570 mg/m³ acute local effects for general population

Dermal Exposure

21 mg/kg bw/day long term systemic effects for workers

12 mg/kg bw/day long term systemic effects for general population

Oral Exposure

21 mg/kg bw/day long term systemic effects

2-ethylhexanoic acid, manganese salt CAS no 15956-58-8

Inhalation exposure

830 µg/m³ long term systemic effects for workers24 µg/m³ long term systemic effects for general population830 µg/m³ long term local effects for workers24 µg/m³ long term local effects for general population

Dermal Exposure

333 µg/kg bw/day long term systemic effects for workers

167 µg/kg bw/day long term systemic effects for general population

Oral Exposure

167 µg/kg bw/day long term systemic effects

Calcium bis(2-ethylhexanoate) CAS no 136-51-6

Inhalation exposure

2,351 mg/m³ long term systemic effects for workers580 µg/m³ long term systemic effects for general population2,66 mg/m³ long term local effects for workers660 µg/m³ long term local effects for general population

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Dermal Exposure

333 µg/kg bw/day long term systemic effects for workers

167 µg/kg bw/day long term systemic effects for general population

Oral Exposure

167 µg/kg bw/day long term systemic effects

Neodecanoic acid, cobalt salt CAS no 27253-31-2**Inhalation exposure**273,2 µg/m³ long term systemic effects for workers43 µg/m³ long term systemic effects for general population**Oral Exposure**

32 µg/kg bw/day long term systemic effects

2-Butanone oxime CAS no 96-29-7**Inhalation exposure**28 µg/m³ long term systemic effects for workers4,82 µg/m³ long term systemic effects for general population900 µg/m³ long term local effects for workers430 µg/m³ long term local effects for general population**Dermal Exposure**

4 µg/kg bw/day long term systemic effects for workers

Oral Exposure

1,6 µg/kg bw/day long term systemic effects

Predicted No-Effect Concentration (PNEC):**2-ethylhexanoic acid, manganese salt CAS no 15956-58-8**

Freshwater: 12,8 – 360 µg/l

Marine water: 400 – 36000 ng/l

Sewage treatment plant (STP): 18,2 – 71,8 mg/l

Sediment freshwater: 6,37 – 34,59 mg/kg

Sediment marina water: 637 – 3459 µg/kg

Soil: 1,06 – 25,1 mg/kg

Calcium bis(2-ethylhexanoate) CAS no 136-51-6

Freshwater: 360 – 410 µg/l

Marine water: 36 – 41 µg/l

Sewage treatment plant (STP): 71,7 – 81,3 mg/l

Sediment freshwater: 6,37 – 7,22 mg/kg

Sediment marina water: 637 – 720 µg/kg

Soil: 1,06 – 1,2 mg/kg

Neodecanoic acid, cobalt salt CAS no 27253-31-2

Freshwater: 1,06 µg/l

Marine water: 2,36 µg/l

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Sewage treatment plant (STP): 370 µg/l
Sediment freshwater: 53,8 mg/kg
Sediment marina water: 69,8 mg/kg
Soil: 10,9 mg/kg

2- Butanone oxime CAS no 96-29-7

Freshwater: 256 µg/l
Marine water: 25,6 µg/l
Sewage treatment plant (STP): 177 mg/l
Sediment freshwater: 1012 mg/kg
Sediment marina water: 101,17 µg/kg
Soil: 52,2 µg/kg

8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

General information:

Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

Eye/face protection:

Safety glasses (EN 166) recommended during refilling. Avoid contact with skin and eyes. Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face shield.

Skin protection

Hand Protection:

Protective gloves in accordance with EN 374 standard.

Material: Nitrile butyl rubber (NBR). Min. Breakthrough time \geq 480 min. Recommended thickness of the material: \geq 0,38 mm.

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection.

Body skin:

Work clothes in accordance with the standard EN 340. Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

Respiratory Protection:

Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol. In case of formation of vapors, respiratory protection is required in accordance with the standard EN 136.

Thermal hazards:

Not known.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance, physical state, color	Liquid transparent
Odor	Characteristic
pH	not determined
Freezing point	not determined
Boiling Point	not determined
Flash Point	not determined
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Flammability Limit - Upper / Flammability Limit - Lower	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Density	0,85 g/cm ³
Solubility	Insoluble
Partition coefficient (n-octanol/water)	Not applicable
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	33sec (20 °C)
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other information:

VOC: 10 %

SECTION 10: Stability and reactivity**10.1. Reactivity**

Decomposition will not occur if stored and used in accordance with the instructions.

10.2. Chemical Stability

Stable under normal use conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions.

10.4. Conditions to avoid

Not known.

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10.5. Incompatible Materials

No data available.

10.6. Hazardous Decomposition Products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

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

Acute toxicity of the components of the mixture:

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) EC no 919-446-0

Oral LD 50: 15000 mg/kg (rat)

Dermal LD 50: 4 ml/kg (rat)

Inhalation LC 50 (4h): 13,1 mg/l (rat)

2-ethylhexanoic acid, manganese salt CAS no 15956-58-8

Oral LD 50: 642 – 2150 mg/kg (rat)

Dermal LD 50: 2000 mg/kg (rat)

Inhalation LC 50 (4h): 1,62 – 4,45 mg/ (rat)

Calcium bis(2-ethylhexanoate) CAS no 136-51-6

Oral LD 50: 300 – 2361 mg/kg (rat)

Dermal LD 50: 2000 ml/kg (rat)

Neodecanoic acid, cobalt salt CAS no 27253-31-2

Oral LD 50: 1098 mg/kg (rat)

Dermal LD 50: 2000 mg/kg (rat)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics EC no 918-481-9

Oral LD 50: 5000 – 15000 mg/kg (rat)

Dermal LD 50: 2000 mg/kg (rat)

Inhalation LC 50 (4h): 4,951 – 9,3 mg/ (rat)

Kerosine (petroleum) hydrodesulfurized CAS no 64742-81-0

Oral LD 50: 5000 mg/kg (rat)

Dermal LD 50: 2000 mg/kg (rabbit)

Inhalation LC 50 (4h): 5,28 mg/l (rat)

2- Butanone oxime CAS no 96-29-7

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Oral LD 50: 900 – 2326 mg/kg (rat)
Dermal LD 50: 1000 ml/kg (rabbit)
Inhalation LC 50 (4h): 4,83 mg/l (rat)

Skin Corrosion/Irritation

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

Serious Eye Damage/Eye Irritation

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

Respiratory or Skin Sensitization

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

Germ Cell Mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Specific Target Organ Toxicity - Single Exposure

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

Specific Target Organ Toxicity - Repeated Exposure

May cause damage to organs (central nervous system) through prolonged or repeated inhalation exposure.

Aspiration Hazard

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

SECTION 12: Ecological information**12.1 Toxicity**

Harmful to aquatic life with long lasting effects.

Aquatic toxicity of mixture components:

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) EC no 919-446-0

LL 50 (96h): 10 – 30 mg/l (fish)

EL 50 (48h): 10 – 22 mg/l (Aquatic Invertebrates)

EC 50 (72h): 530 – 1200 µg/l (algae)

2-ethylhexanoic acid, manganese salt CAS no 15956-58-8

LC 50 (96h): 3,17 – 116 mg/l (fish)

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EC 50 (48h): 910 mg/l (Aquatic Invertebrates)
EC 50 (72h): 61 – 500 mg/l (algae)

Calcium bis(2-ethylhexanoate) CAS no 136-51-6

LC 50 (96h): 100 mg/l (fish)
EC 50 (48h): 910 mg/l (Aquatic Invertebrates)
EC 50 (72h): 500 mg/l (algae)

Neodecanoic acid, cobalt salt CAS no 27253-31-2

LC 50 (96h): 1,512 – 85,3 mg/l (fish)
EC 50 (48h): 2,618 – 5,89 mg/l (Aquatic Invertebrates)
EC 50 (72h): 28,8 – 819,4 µg/l (algae)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics EC no 918-481-9

LL 50 (96h): 10 – 803000 mg/l (fish)
EC 50 (48h): 2 – 4 µg/l (Aquatic Invertebrates)
EL 50 (72h): 100 – 1000 mg/l (algae)

Kerosine (petroleum) hydrodesulfurized CAS no 64742-81-0

LL 50 (96h): 2 – 5 mg/l (fish)
EL 50 (48h): 1,4 mg/l (Aquatic Invertebrates)
EL 50 (72h): 1 – 3 mg/l (algae)

2- Butanone oxime CAS no 96-29-7

LC 50 (96h): 100 mg/l (fish)
EC 50 (48h): 201 mg/l (Aquatic Invertebrates)
EC 50 (72h): 11,8 mg/l (algae)
NOEC (14 dana): 50 – 100 mg/l (ribe)
NOEC (21dan): 100 mg/l (Aquatic Invertebrates)
NOEC (72h): 2,56 mg/l (algae)

12.2. Persistence and Degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6. Other adverse effects

Volatile organic compounds (VOC) 10%.

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SECTION 13: Disposal considerations**13.1. Waste treatment methods**

General information:

Dispose in accordance with all applicable regulations.

Disposal methods:

Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. European Waste Codes:

08 01 12 - waste paint and varnish other than those specified in 08 01 11*.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1. UN Number	Non-dangerous goods	Non-dangerous goods	Non-dangerous goods
14.2. UN Shipping Name	/	/	/
14.3. Class	/	/	/
14.4. Packing Group	/	/	/
14.5. Environmental hazards	No	No	No
14.6. Special precautions for user	/	/	/
14.7. Transport in bulk	/	/	/

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU Regulations:

EU. Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none.

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

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SECTION 16: Other information**Revision Information: /****Data evaluation method according to the CLP/GHS regulation used for classification:**

H 373 – generic concentration limit; H 412 – calculation method.

Wording of the H-statements in section 3

H 226 Flammable liquid and vapour
H 301 Toxic if swallowed
H 302 Harmful if swallowed
H 312 Harmful in contact with skin
H 332 Harmful by inhalation
H 315 Causes skin irritation
H 318 Causes serious eye damage
H 319 Causes serious eye irritation
H 317 May cause an allergic skin reaction
H 350 May cause cancer
H 361 Suspected of damaging fertility or the unborn child
H 336 May cause drowsiness or dizziness
H 370 Causes damage to organs
H 372 Causes damage to organs through prolonged or repeated exposure
H 304 May be fatal if swallowed and enters airways
H 411 Toxic to aquatic life with long lasting effects

Abbreviations and Acronyms

bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IATA - International Air Transport Association; IC50 - Half maximal inhibitory concentration; IMDG - International Maritime Dangerous Goods; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SDS - Safety Data Sheet; TDG - Transportation of Dangerous Goods; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative;

Data source:

ECHA (European Chemicals Agency)

Disclaimer:

The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material.