

**Bezbednosni list**  
**Safety data sheet**Bezbednosni list je u skladu sa Pravilnikom (EC) No. 1907/2006 (REACH)  
According to Regulation (EC) No. 1907/2006 (REACH)

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Date: 05.11.2021.

**Guardian LED Oil**Verzija: 1.2  
Version: 1.2**Chapter 1. Identification of the substance/mixture and of the company/undertaking**

<b>Subchapter 1.1 Product identifier:</b>	Guardian LED Oil
<b>Subchapter 1.2 Relevant identified uses of the substance or mixture and uses advised against:</b>	Wood preservatives. Application other than the above is not recommended.
<b>Subchapter 1.3 Details of the supplier of the safety data sheet:</b>	EkoLak D.O.O.
Address:	Vucic bb, 34210 Raca, Serbia
Phone/Fax:	Phone: +381 34 355 339, Fax: /
E-mail address:	info@ekolak.rs
E-mail address of the persons responsible for the safety data sheet:	milica.pavkov@deltapak.rs olivera.glisovic@deltaholding.rs
<b>Subchapter 1.4 Emergency phone number:</b>	Poison control center +381 11 3608 440 (00-24h)

**Chapter 2. Hazard identification****Subchapter 2.1 Classification of the substance or mixture:**

Classification in accordance with the Rulebook on the Classification, Packaging, Labeling and Advertising of Chemicals and Certain Products in accordance with the Globally Harmonized System for Classification and Labeling of the UN ("Official Gazette of RS", No. 105/2013, 52/2017 and 21/2019):

H315 Skin irritation, category 2

H318 Severe eye damage, category 1

H317 Skin sensitization, category 1

H411 Danger to the aquatic environment, category chronic 2

**Subchapter 2.2 Label elements:**

Classification in accordance with the Rulebook on the Classification, Packaging, Labeling and Advertising of Chemicals and Certain Products in accordance with the Globally Harmonized System for Classification and Labeling of the UN ("Official Gazette of RS", No. 105/2013, 52/2017 and 21/2019):

**Hazard pictograms:**

GHS 05



GHS 07



GHS 09

**Signal word:** Danger**Hazard statements:**

H315 Causes skin irritation

H318 Causes serious eye damage

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H317 May cause allergic skin reaction

H411 Toxic to aquatic life with long-term effects

**Precautionary statements:**

P102 Keep out of reach of children.

P261 Avoid breathing dust/fume/gas/mist/vapour/spray.

P273 Avoid discharge/release into the environment.

P305 + P351 + P338 If in eyes: Rinse carefully with water for several minutes. Remove contact lenses, if present and possible. Continue rinsing.

P302 + P352 If on skin: Wash off with plenty of water.

P333 + P313 If skin irritation or rash occurs: Seek medical advice/observation.

P391 Collect spilled contents.

P501 Disposal of contents/packaging in accordance with local and national regulations.

**Subchapter 2.3 Other hazards:**

This substance/mixture does not contain ingredients considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at 0.1% or more.

**Chapter 3. Composition/information on ingredients****Subchapter 3.1 Chemical characterisation of the substance:**

Not relevant.

**Subchapter 3.2 Chemical characterisation of the mixture:**

Chemical name	CAS number	EC number	INDEX/REACH Registration number	Classification <sup>1</sup>	Mass fraction (%)
Pentaerythritol, ethoxylated, esters with acrylic acid	51728-26-8	500-111-9	/	Skin irritation 2 H315, Eye irritation 2 H319, Aquatic environment - chronic 2 H411.	< 45
Oxybis (methyl - 2,1-ethanedyl) diacrylate	57472-68-1	260-754-3	/	Skin irritation 2 H315, Eye irritation 1 H318, Skin sensitizing 1 H317.	20 - 50
Diphenyl (2,4,6-trimethyl benzoyl) phosphine oxide	75980-60-8	278-355-8	015-203-00-X	Toxic for reproduction 2 H361f (causes testicular atrophy).	< 3

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<sup>1</sup>Classification in accordance with the Rulebook on the Classification, Packaging, Labeling and Advertising of Chemicals and Certain Products in accordance with the Globally Harmonized System for Classification and Labeling of the UN ("Official Gazette of RS", No. 105/2013, 52/2017 and 21/2019):

The full text of the H-phrases referring to the risks of dangerous substances is given in chapter 16 of the document.

**Chapter 4. First aid measures****Subchapter 4.1 Description of first aid measures:**

After inhalation:	Take the person to fresh air and be sure to call a doctor. In case of unconsciousness, place the patient in a stable lateral position for transport.
After skin contact:	In case of irritation, consult a doctor. Wash immediately with soap and water and rinse thoroughly.
After eye contact:	Rinse the open eye for several minutes under running water. Consult a doctor.
After swallowing:	Rinse your mouth. Do not induce vomiting; call for medical help immediately.

**Subchapter 4.2 Most important symptoms and effects, both acute and delayed:**

No relevant information is available.

**Subchapter 4.3 Indication of any immediate medical attention and special treatment needed:**

No relevant information is available.

**Chapter 5. Firefighting measures****Subchapter 5.1 Extinguishing media:**Water haze  
Carbon dioxide  
Sand  
Fire-extinguishing powder**Subchapter 5.2 Special hazards arising from the substance or mixture:**

Rags and felts, which are used to apply oil to wooden surfaces, should be wetted with water after use and disposed of as municipal waste, as they may spontaneously combust. Hazardous combustion products: carbon dioxide and carbon monoxide.

**Subchapter 5.3 Advice for firefighters:**

Wear self-contained breathing apparatus during firefighting if necessary. Use personal protective equipment. Standard Procedure for Chemical Fires. Use extinguishing measures appropriate to local conditions and

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environment. In case of fire and/or explosion, do not inhale smoke. Use water spray to cool unopened containers.

**Chapter 6. Accidental release measures**

**Subchapter 6.1 Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment.  
The contaminated surface will be very slippery. Avoid contact with skin and eyes.

**Subchapter 6.2 Environmental precautions:** Prevent further leakage or spillage if safe to do so.

**Subchapter 6.3 Methods and material for containment and cleaning up:** Pick up with absorbent material (e.g. sand, soil, sawdust...). Store in closed containers for disposal. Contaminated equipment (brushes, cloths) must be cleaned with water. Process the collected waste material according to the procedures from chapter 13.

**Subchapter 6.4 Reference to other sections:**  
See chapter 7. for information on safe handling.  
See chapter 8. for information on personal protection equipment.  
See chapter 13. for disposal information.

**Chapter 7. Handling and storage**

**Subchapter 7.1 Precautions for safe handling:** Avoid contact with skin and eyes.  
Ensure good ventilation in the workplace.  
Prevent the formation of aerosols.  
No special measures are required.

**Subchapter 7.2 Conditions for safe storage, including any incompatibilities:**

**Requirements to be met by storerooms and receptacles:** Store only in unopened original containers.

**Further information about storage conditions:** Store in a cool place.  
Keep away from strong acids, bases and oxidants.

**Stability during storage:** No decomposition if stored and applied as directed.

**Subchapter 7.3 Specific end uses:** No relevant information is available.

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Exposure Limits:

Rulebook on preventive measures for safe and healthy work when exposed to chemical substances ("Official Gazette of RS" no. 106/09, 117/17):

**Workplace exposure limit values (KGVI and GVI):**

No relevant information is available.

**Exposure limits of the components of the mixture without effect on human health (DNEL):**

Pentaerythritol, ethoxylated, esters with acrylic acid CAS No. 51728-26-8

Inhalative

880 µg/m<sup>3</sup> long-term systemic exposure for workers217 µg/m<sup>3</sup> long-term systemic exposure for the population

Dermal

500 µg/kg body weight/day long-term systemic exposure for workers

250 µg /kg body weight/day long-term systemic exposure for the population

Orally

375 µg/kg body weight/day long-term systemic exposure

Oxybis (methyl - 2,1-ethanediyl) diacrylate CAS No. 57472-68-1

Inhalative

24.48 mg/m<sup>3</sup> long-term systemic exposure for workers7.24 mg/m<sup>3</sup> long-term systemic exposure for the population

Dermal

2.77 mg/kg body weight/day long-term systemic exposure for workers

1.66 mg/kg body weight/day long-term systemic exposure for the population

Orally

2.08 mg/kg body weight/day long-term systemic exposure

Diphenyl (2,4,6-trimethyl benzoyl) phosphine oxide CAS No. 75980-60-8

Inhalative

822 µg/m<sup>3</sup> long-term systemic exposure for workers145 µg/m<sup>3</sup> long-term systemic exposure for the population

Dermal

233 µg/kg body weight/day long-term systemic exposure for workers

83.3 µg/kg body weight/day long-term systemic exposure for the population

Orally

83.3 µg/kg body weight/day long-term systemic exposure

**Exposure limits of the components of the mixture with no environmental effect (PNEC):**

Pentaerythritol, ethoxylated, esters with acrylic acid CAS No. 51728-26-8

Fresh water: 1.76 mg/l

Sea water: 176 ng/l

Waste water from the plant: 4 mg/l

Sediments in fresh water: 17 µg/kg

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Sediments in seawater: 1.7 µg/kg

Soil: 7.8 µg/kg

Air: /

Oxybis (methyl - 2,1-ethanedyl) diacrylate CAS No. 57472-68-1

Fresh water: 3.4 µg/l

Sea water: 340 ng/l

Waste water from the plant: 100 mg/l

Freshwater sediments: 8.84 µg/kg

Sediments in seawater: /

Soil: 1.3 µg/kg

Air: /

Diphenyl (2,4,6-trimethyl benzoyl) phosphine oxide CAS No. 75980-60-8

Fresh water: 1.4 µg/l

Sea water: 140 ng/l

Waste water from the plant: /

Sediments in fresh water: 115 µg/kg

Sediments in seawater: 11.5 µg/kg

Soil: 22.2 µg/kg

Air: /

**Subchapter 8.2 Exposure control and personal protective equipment:**

Provide adequate ventilation. Wherever practicable, ventilation should be achieved by the use of local exhaust ventilation and good drains. Provide eye wash showers in places where the product is used.

**General protective and hygienic measures:**

Avoid contact with skin and eyes. Noted skin irritation and severe eye damage. Wash your hands before breaks and at the end of the day. When using the material, do not eat, drink or smoke. Remove contaminated clothing and wash before next use. Noticeable irritation.

**Respiratory protection:**

In case of insufficient ventilation, use appropriate respiratory protection.

**Protection of hands:**

Protective gloves. The material of the gloves must be impermeable and resistant to the product. Due to missing tests, no glove material recommendations can be given for the product. Selection of glove materials taking into account penetration times, diffusion rates and degradation. The choice of suitable gloves depends not only on the material, but also on further quality marks and varies from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of the glove material cannot be calculated in advance and must therefore be checked before use.

**Eye protection:**

Chemical safety goggles with side shields. Severe eye damage noted.

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**Guardian LED Oil**Verzija: 1.2  
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The appearance and color of the chemical	Liquid
Odor	Specific
Odor threshold	No relevant information is available.
pH of chemical	7.0 – 7.5
Melting point/freezing point	No relevant information is available.
Initial boiling point and boiling range	No relevant information is available.
Flash point	>100 °C
Evaporation rate	No relevant information is available.
Flammability (solid, gas)	No relevant information is available.
Upper/lower limit of flammability or explosiveness	No relevant information is available.
Vapor pressure	No relevant information is available.
Vapor density	No relevant information is available.
Relative density	1.08 g/cm <sup>3</sup>
Solubility	No relevant information is available.
Distribution coefficient in the n-octanol/water system	No relevant information is available.
Autoignition temperature	240 °C
Decomposition temperature	No relevant information is available.
Viscosity	Dynamic 100 mPas
Explosive properties	No relevant information is available.
Oxidizing properties	No relevant information is available.

**Subchapter 9.2 Other information:**

VOC (EC) 0.00%

**Chapter 10. Stability and reactivity****Subchapter 10.1 Reactivity:**

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

**Subchapter 10.2 Chemical stability:**

The product is chemically stable under normal conditions.

**Subchapter 10.3 Possibility of hazardous reactions:**

The product will not be subject to change.

**Subchapter 10.4 Conditions to avoid:**

Not to freeze.

**Subchapter 10.5 Incompatible materials:**

No relevant information is available.

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Hazardous decomposition products are not known.

**Chapter 11. Toxicological information****Subchapter 11.1 Information on toxicological effects:****a) Acute toxicity:**

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

Acute toxicity of the components of the mixture:

Pentaerythritol, ethoxylated, esters with acrylic acid CAS No. 51728-26-8

Oral LD 50: 2000 mg/kg (rat)

Dermal LD 50: 2000 mg/kg (rat)

Inhalational LC 0 (7h): /

Oxybis (methyl - 2,1-ethanedyl) diacrylate CAS No. 57472-68-1

Oral LD 50: 2810 - 4270 ml/kg (rat)

Dermal LD 50: 2000 mg/kg (rabbit)

Inhalative LC 0 (7h): 545 – 410,000 µg/m<sup>3</sup>

Diphenyl (2,4,6-trimethyl benzoyl) phosphine oxide CAS No. 75980-60-8

Oral LD 50: 5000 mg/kg (rat)

Dermal LD 50: 2000 mg/kg (rat)

Inhalational LC 0 (7h): /

**b) Skin corrosion/irritation:**

Causes skin irritation.

**c) Serious eye damage/irritation:**

Causes severe eye damage.

**d) Respiratory or skin sensitisation:**

Causes skin sensitization.

**e) Germ cell mutagenicity:**

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

**f) Carcinogenicity:**

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

**g) Reproductive toxicity:**

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

**h) STOT – Single exposure:**

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

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

**j) Aspiration hazard:**

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

**Chapter 12. Ecological information**

The product is classified as toxic to aquatic life with long-term effects.

Aqueous toxicity of the components of the mixture:

Pentaerythritol, ethoxylated, esters with acrylic acid CAS No. 51728-26-8

LC 50 (96h): 1.76 mg/l (fish)

EC 50 (48h): 90.94 mg/l (aquatic invertebrates)

EL 50 (72h): 76.3 - 100 mg/l (algae)

NOEC (4 days): 1.23 mg/l (fish)

NOEC (48h): 100 mg/l (aquatic invertebrates)

NOELR (72h): 58.8 mg/l

Oxybis (methyl - 2,1-ethanedyl) diacrylate CAS No. 57472-68-1

LC 50 (96h): 2.2 – 4.64 mg/l (fish)

EC 50 (48h): 22.3 mg/l (aquatic invertebrates)

EC 50 (72h): 16.7 mg/l (algae)

NOEC (4 days): 1 mg/l (fish)

Diphenyl (2,4,6-trimethyl benzoyl) phosphine oxide CAS No. 75980-60-8

LC 50 (96h): 1.4 mg/l (fish)

EC 50 (48h): 3.53 mg/l (aquatic invertebrates)

EC 50 (72h): 2.01 mg/l (algae)

**Subchapter 12.1 Toxicity:**

No relevant information is available.

**Subchapter 12.2 Persistence and degradability:**

No relevant information is available.

**Subchapter 12.3 Bioaccumulative potential:**

No relevant information is available.

**Subchapter 12.4 Mobility in soil:**

No relevant information is available.

**Subchapter 12.5 Results of PBT and vPvB assessment:**

This substance / mixture does not contain components considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at a level of 0.1% or more.

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Volatile organic compounds (VOC) 0%.

**Chapter 13. Disposal considerations****Subchapter 13.1 Waste treatment methods:**

Removal must be in accordance with the Law on Waste Management ("Official Gazette of RS", no. 36/09, no. 88/10, 14/16, 95/18). Dispose of used packaging in accordance with the Law on Packaging and Packaging Waste ("Official Gazette of RS" no. 36/09, 95/18). Product: Dispose of in accordance with local and national regulations. Do not dispose of waste in sewers. Do not dispose of with household waste. Waste index numbers should be assigned based on product characterization and application. Contaminated packaging: Empty the remaining contents. Dispose of as unused product. Empty containers should be handed over to authorized operators for recycling or disposal. Do not reuse empty containers.

**Chapter 14. Transport information**

	Land transport	Sea transport	Air transport
Subchapter 14.1 UN Number:	/	/	/
Subchapter 14.2 UN proper shipping name:	/	/	/
Subchapter 14.3 Transport hazard class(es) :	/	/	/
Subchapter 14.4 Packing group:	/	/	/
Subchapter 14.5 Environmental hazards:	/	/	/
Subchapter 14.6 Special precautions for user:	/	/	/
Subchapter 14.7 Transport in bulk:	/	/	/

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

Law on Chemicals ("Official Gazette of RS" no. 36/09, 88/10, 92/11, 93/12 and 25/15).

Law on Waste Management ("Official Gazette of RS" 36/09, 88/10, 14/16 and 95/18).

Law on packaging and packaging waste ("Official Gazette of RS" 36/09 and 95/18).

Law on fire protection ("Official Gazette of RS" 111/09, 20/15, 87/18 and 87/18).

Law on Transport of Dangerous Goods ("Official Gazette of the RS" 104/16, 95/18, 95/18-dr. Law, 10/19 - dr. Law).

Rulebook on the content of the safety data sheet (Official Gazette of the RS" 100/11).

Rulebook on classification, packaging, labeling and advertising of chemicals and certain products in accordance with the Globally Harmonized System for Classification and Labeling of the UN ("Official Gazette of RS" 105/13, 52/17 and 21/19).

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Rulebook on preventive measures for safe and healthy work when exposed to chemical substances ("Official Gazette of RS", no. 106/09 and 117/17).

Rulebook on categories, testing and classification of waste ("Official Gazette of RS", no. 56/10, 93/19 and 39/21).

Rulebook on preventive measures for safe and healthy work when using means and equipment for personal protection at work ("Official Gazette of RS" 92/2008, 101/2018).

Rulebook on restrictions and prohibitions of production, marketing and use of chemicals (Official Gazette No. 90/13, 25/15, 8/16, 44/17, 36/18, 9/20).

**Subchapter 15.2 Chemical safety assessment:**

No chemical safety assessment has been performed for the mixture or substances contained in the product.

**Chapter 16. Other information****Changes and additions:**

Revision 1.2 in subchapters: 1.1, 1.2, 2.1, 2.2, 3.2, 8.1, 9.1, 11.1, 12.1, 13.1, 15.1 and 16.

**H codes from chapter 3. of the safety data sheet:**

H315 Skin irritation

H317 Skin sensitizing

H318 Eye irritation

H319 Eye irritation

H361 Toxic for reproduction

H411 Aquatic environment

**Abbreviations and acronyms:**

PBT - persistent, bioaccumulative and toxic

vPvB - very persistent, very bioaccumulative

GVI - Occupational exposure limit value

KGVl - short-term exposure limit value

ADR/RID - European Agreements on the transport of Dangerous goods by Road/Railway

IATA - International Air Transport Association

IMDG - International agreement on the Maritime transport of Dangerous goods

LD 50 - Lethal concentration 50 (the concentration that leads to the death of 50% of the tested animals)

LC 50 - Lethal concentration 50 (concentration in the air that leads to the death of 50% of the tested animals)

NOEC - No Observed Effect Concentration

EC 50 - Effective concentration 50 (concentration that causes a toxic effect in 50% of the tested animals)

IC 50 - Inhibitory concentration 50 (concentration that causes inhibition of growth in 50% of tested aquatic plants)

EC - European Commission number - Identification number of the substance in the European Union

CAS - Chemical Abstracts Service (a division of the American Chemical Society)

ECHA - European Chemicals Agency

**Data evaluation method according to CLP/GHS regulation used for classification:**

H 315 and H 318 – summation method (additive approach); H 317 - general limit concentrations given in tab. 3.4.5. regulations; H 411 – summation method chronic.

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**Bezbednosni list**  
**Safety data sheet**

Bezbednosni list je u skladu sa Pravilnikom (EC) No. 1907/2006 (REACH)  
According to Regulation (EC) No. 1907/2006 (REACH)

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Date: 05.11.2021.

**Guardian LED Oil**

Verzija: 1.2  
Version: 1.2

**Data source:**

Safety data sheet of the manufacturer, from 01.08.2011, ECHA.

The information contained in the Safety Data Sheet is correct to the best of our knowledge. The information provided is intended only as a guide for safe handling, use, application, processing, storage, transport, disposal and release and should not be considered as a warranty or quality specification. The information relates only to the specific material specified and may not apply to those materials used in combination with other materials, or in a process, other than as specified herein.

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