

SEMILAC®

SAFETY DATA SHEET

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

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

- 1.1. Product identifier
Semilac UV Gel
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses: nail styling product - for professional use.
Uses advised against: not determined.
- 1.3. Details of the supplier of the safety data sheet
Supplier: Nesperta Europe Sp. z o.o.
Address: ul. Obornicka 7, 62-002 Jelonek, Poland
Telephone number: + 48 61 306 77 72
E-mail address for a competent person responsible for SDS: office@nesperta.com
- 1.4. Emergency telephone number
112 (Europe's emergency telephone number).

Section 2: Hazards identification

- 2.1. Classification of the substance or mixture
Skin Irrit. 2 H315, Skin Sens. 1 H317, Eye Irrit. 2 H319, STOT SE 3 H335
Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.
- 2.2. Label elements
Hazard pictograms and signal words



WARNING

Substances which influenced product classification

Contains: polyurethane acrylate oligomer; 2-hydroxyethyl methacrylate; phenyl bis(2,4,6-trimethylbenzoyl)phosphine oxide.

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statements

P102 Keep out of reach of children.
P261 Avoid breathing vapours.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P501 Dispose of contents/container to properly labeled waste containers in accordance with national regulations.

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Additional information

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

The substances contained in the product do not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation. The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight.

Section 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

CAS number: 152187-46-7 EC number: 814-867-5 Index number: - Registration number: polymer ¹⁾	<u>polyurethane acrylate oligomer</u> Skin Irrit. 2 H315, Eye Irrit. 2 H319, STOT SE 3 H335	50-75 %
CAS number: 868-77-9 EC number: 212-782-2 Index number: 607-124-00-X Registration number: 01-2119490169-29-0037	<u>2-hydroxyethyl methacrylate</u> Skin Irrit. 2 H315, Skin Sens. 1 H317, Eye Irrit. 2 H319	10-25 %
CAS number: 162881-26-7 EC number: 423-340-5 Index number: 015-189-00-5 Registration number: 01-2119489401-38-0006	<u>phenyl bis(2,4,6-trimethylbenzoyl)phosphine oxide</u> Skin Sens. 1A H317, Aquatic Chronic 4 H413	1-5 %
CAS number: 13463-67-7 EC number: 236-675-5 Index number: 022-006-00-2 Registration number: exempt from registration ²⁾	<u>titanium dioxide: [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]</u> Carc. 2 H351 (inhalation)	1-5 %
CAS number: 1309-37-1 EC number: 215-168-2 Index number:- Registration number: exempt from registration ²⁾	<u>diiron trioxide</u> substance is not classified as hazardous	1-5 %
CAS number: 51274-00-1 EC number: 257-098-5 Index number:- Registration number: exempt from registration ²⁾	<u>iron hydroxide oxide yellow</u> substance is not classified as hazardous	1-5 %

¹⁾ Registered monomer numbers: 01-2119457014-47-0044, 01-2119454791-34-0028

²⁾ Tonnage < 1 tonne/year

Full text of each relevant H phrase is given in section 16 of SDS.

The product contains: carbon black [CAS 1333-86-4] and graphite [CAS 7440-44-0] which are not classified as hazardous and do not have defined occupational exposure limits defined on the European Union level

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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: take off contaminated clothes and wash it before next use. Wash contaminated skin thoroughly with water and soap. Seek medical advice if disturbing symptoms appear.

Eye contact: protect non irritated eye, remove contact lenses. Rinse contaminated eyes thoroughly with water for at least 10-15 minutes. Avoid strong stream of water – risk of damage of the cornea. Consult an ophthalmologist.

Ingestion: do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a doctor, show the label or safety data sheet. In case of unconsciousness, place the victim in the recovery position. Get medical attention immediately.

Inhalation: remove the victim to fresh air, keep warm and calm. Consult a doctor if disturbing symptoms appear. In case of unconsciousness, place the victim in the recovery position. Loosen tight clothing. Get medical attention immediately. Control and maintain a patent airway. If breathing has stopped, administer artificial respiration.

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

Skin contact: redness, burning sensation, irritation, allergic reaction.

Eye contact: redness, tearing, pain, blurred vision, irritation.

Ingestion: abdominal pain, vomiting, nausea, diarrhea, digestive system irritation.

Inhalation: high concentration of vapors may cause drowsiness, headache, weakening of concentration, respiratory tract irritation.

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

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Treat symptomatically. If necessary, use gastric lavage. An exposed person may require medical supervision for 48 hours as symptoms may be delayed.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: in case of small fire, use carbon dioxide and dry extinguishers. Fight larger fires with water spray or alcohol-resistant foam.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

5.2. Special hazards arising from the substance or mixture

During combustion harmful fumes consisting of e.g. carbon oxides, nitrogen oxides, phosphorus oxides, metal oxides and other unidentified products of thermal decomposition may be produced. Do not inhale combustion products, it may cause health risk.

5.3. Advice for firefighters

Due to high content of acrylate, high temperature and fire can cause rapid and uncontrolled polymerization, which can lead to explosions and violent rupture of the tank or container. Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. In case of fire cool endangered containers with water fog from safe distance. Collect used extinguishing media. Do not allow residues of extinguishing agents to enter surface waters, sewage systems, sewage and soil.

Section 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. In case of a large breakdown, isolate the exposed area.

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Ensure that only the trained personnel removes the effects of the accident. Wear personal protective equipment. Avoid eyes, skin and clothes contamination. Do not breathe vapours. Ensure adequate ventilation.

6.2. Environmental precautions

In the event of release of larger amounts of the product, prevent it from spreading into the environment. If necessary, notify relevant emergency services.

6.3. Methods and material for containment and cleaning up

Small leakage: if possible and safe, eliminate or reduce the leakage (seal, close the flow of liquid, put the damaged packaging in an emergency container). Collect with a non-flammable absorbent and place in labeled containers. Collected material treat as waste. Clean the leak point with a small amount of water and detergent, rinse with water. Do not allow contaminated water to enter the sewage system. Ventilate the contaminated area.

Large leakage: if possible and safe, eliminate or reduce the leakage. Collect with a non-flammable absorbent (e.g. sand, soil, universal binding agent, silica, scobs etc.) and place in labeled containers. Dispose in accordance with national regulations.

6.4. Reference to other sections

Appropriate conduct with waste product – section 13. Personal protection equipment – section 8.

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

Handle in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke at the workplace. Before break and after work wash hands carefully with water and soap. Do not use solvents for cleaning of skin. Do not breathe vapours. Avoid contamination of eyes, skin and clothing. Immediately take off contaminated clothes and wash it before next use. Unused containers keep tightly closed. Eliminate sources of ignition - do not use open fire. Work only in well-ventilated areas.

7.2. Conditions for safe storage, including any incompatibilities

Store only in tightly closed containers in a cool, dry and well-ventilated area. Store at room temperature. Resealed containers stored upright to prevent leakage. Keep away from food, beverages or feed for animals. Keep away from incompatible materials (see subsection 10.5). Protect from light and direct sunlight, as well as against cold and moisture. For product transfer operations, follow the manufacturer's instructions regarding the process temperature. Do not store near sources of heat and ignition. Store below 26 °C.

7.3. Specific end use(s)

No information about other uses than those mentioned in subsection 1.2.

Section 8: Exposure controls/personal protection**8.1. Control parameters**

Product does not contain components with occupational exposure limit values established on the European Union level.

Legal Basis: Commission Directive 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU.

8.2. Exposure controls**Appropriate engineering controls**

Use the product in accordance with good occupational hygiene and safety practices. Provide effective local and/ or general ventilation at the workplace. Do not eat, drink and smoke during the work. Before break and after work wash hands carefully. Avoid contamination of eyes, skin and clothing. Take off contaminated clothes immediately and wash it before next use.

Individual protection measures, such as personal protective equipment

The necessity to use and selection of appropriate personal protective equipment should take into account the type of risk posed by the product, working conditions and the way of handling the product.

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The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and the relevant standards. The employer is obliged to provide protection measures appropriate to the activities performed and meeting all quality requirements, including their maintenance and cleaning. Any contaminated or damaged PPE must be replaced immediately.

Hand protection

Use protective gloves in accordance with EN 374 adequate to the performed task and suitable for the potential hazard. In case of short-term exposure wear the protective gloves with protection level 2 or greater (breakthrough time > 30 min). In case of long-term exposure wear the protective gloves with protection level 6 (breakthrough time > 480 min). Material for the gloves should be selected individually at the workplace.

When using protective gloves during work with chemical products, it should be noted that the efficacy levels and corresponding breakthrough times do not indicate actual times of protection at a particular workplace, because the protection can be affected by many factors, e.g. temperature, other substances etc. If there are any signs of degradation, damage or change in appearance (colour, flexibility, shape), it is recommended to replace the gloves with a new pair. Please follow the manufacturer's instructions, not only in terms of gloves' usage, but also in terms of their cleaning, maintenance and storage. It is also important to know how to take off the gloves in order to avoid hands contamination.

Skin protection

Depending on the task, use protective clothing appropriate to the potential hazard. Wash the contaminated clothes before next use.

Eye protection

Wear protective glasses or face shield in accordance with EN 166.

Respiratory protection

Not required under normal conditions of work and with adequate ventilation. In case of high concentration of vapours in the air or breakdown, use respiratory protection.

Thermal hazards

Do not occur.

Environmental exposure controls

Do not allow the large quantity of mixture to contaminate ground water, sewage systems, sewage and soil. Possible emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of the environmental law.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	by product range
Odour:	like acrylic resin
Melting point/freezing point:	-38 ÷ -40 °C
Boiling point or initial boiling point and boiling range:	> 250 °C
Flammability:	product is not classified as flammable
Lower and upper explosion limit:	not determined
Flash point:	> 400 °C
Auto-ignition temperature:	not determined
Decomposition temperature:	> 350 °C
pH:	7
Kinematic viscosity:	3902 ± 500 mPa·s (60 °C)
Solubility:	insoluble in water
Partition coefficient n-octanol/water (log value):	> 150
Vapour pressure:	not determined
Density and/or relative density:	1,23 g/cm ³
Relative vapour density:	not determined

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Particle characteristics: not applicable

9.2. Other information

Dynamic viscosity : 4800 ± 500 mPa·s (60 °C)

Section 10: Stability and reactivity

10.1. Reactivity

The product is reactive. Under the influence of high temperature and light, dangerous polymerization may occur. See also subsections 10.3-10.5.

10.2. Chemical stability

The product is stable under normal conditions of storage and use.

10.3. Possibility of hazardous reactions

In case of excessive heating and exposure to direct sunlight uncontrolled polymerization may occur. Protect against natural light, LED, UV.

10.4. Conditions to avoid

Avoid sources of ignition, flame, excessive heating, direct exposure to sunlight.

10.5. Incompatible materials

Polymerization initiators: strong oxidants, copper, copper alloys, carbon steel, iron, rust, strong bases, peroxides.

10.6. Hazardous decomposition products

Not known.

Section 11: Toxicological information

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

Information regarding acute and/or delayed results of the exposure was defined on the basis of the information on product's classification and/or toxicological studies as well as the experience and knowledge of the manufacturer.

Acute toxicity

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

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

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

Carcinogenicity

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

The product contains titanium dioxide, which is classified as Carc. 2, however, due to its form, there is no possibility of exposure to product dust. The product is not classified as carcinogenic.

Reproductive toxicity

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

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

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

SEMILAC®**SAFETY DATA SHEET**Aspiration hazard

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

Information on likely routes of exposure

Routes of exposure: skin contact, eye contact, inhalation, ingestion. For more information on the impact of each possible route of exposure, see subsection 4.2.

Symptoms related to the physical, chemical and toxicological characteristics

No data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data.

11.2. Information on other hazards

Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight.

Other information

No data.

Section 12: Ecological information

12.1. Toxicity

The product is not classified as hazardous to environment.

12.2. Persistence and degradability

No data.

12.3. Bioaccumulative potential

No data.

12.4. Mobility in soil

Mobility of components of the mixture depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5. Results of PBT and vPvB assessment

The substances contained in the product do not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

12.6. Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight.

12.7. Other adverse effects

The mixture is not classified as hazardous to the ozone layer. Consider other harmful effects of individual components of the mixture on the environment (e.g., global warming potential).

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods for the mixture: do not empty into drains. Do not allow it to contaminate surface and ground water. Do not store on municipal landfills. Reuse or disposal of a waste product should be carried out in accordance with applicable regulations. Store residues in original containers. Do not mix with other waste. Waste code should be assigned in the place of its formation.

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Disposal methods for used packing: empty containers should be reused/recycled/eliminated in accordance with the local legislation. Reuse, reusable packaging after cleaning. Contaminated packaging should be treated in the same way as the product.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

Section 14: Transport information

- 14.1. UN number or ID number
The product is not classified as hazardous in transport by land, sea and air.
- 14.2. UN proper shipping name
Not applicable.
- 14.3. Transport hazard class(es)
Not applicable.
- 14.4. Packing group
Not applicable.
- 14.5. Environmental hazards
Not applicable.
- 14.6. Special precautions for users
Not applicable.
- 14.7. Maritime transport in bulk according to IMO instruments
Not applicable.

Section 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 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.
- Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.
- European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.
- Regulation 2016/425/EC of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (Text with EEA relevance).
- Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
- Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.
- Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.
- Commission Directive 2017/164/EU of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.
- Commission Directive 2019/1831/EU of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

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The Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).
 IMDG Code International Maritime Dangerous Goods Code.
 IATA Dangerous Goods Regulations.

15.2. Chemical safety assessment

It is not necessary to carry out a chemical safety assessment for mixture.

Section 16: Other information

Full text of indicated H phrases mentioned in section 3

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H413	May cause long lasting harmful effects to aquatic life.

Clarification of aberrations and acronyms

PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	very Persistent, very Bioaccumulative substance
TWA	Time weighted Average
STEL	Short-Term Exposure Limit
Aquatic Chronic 4	Hazardous to the aquatic environment, category 4
Carc. 2	Carcinogenicity category 2
Eye Irrit. 2	Serious eye damage/eye irritation, category 2
Skin Irrit. 2	Skin corrosion/irritation, category 2
Skin. Sens. 1A	Skin sensitization category 1A
STOT SE 3	Specific target organ toxicity — single exposure, category 3

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

Key literature references and sources of data

This SDS was prepared on the basis of safety data sheet provided by manufacturer, literature data, online databases as well as our knowledge and experience, taking into account current legislation.

Procedures used for the mixture classification

Classification was based on the basis of manufacturer's safety data sheet, the physicochemical data and hazardous substances calculation method under the guidance of Regulation 1272/2008/EC (CLP) as amended.

Additional information

Date of issue: 21.12.2022
 Version: 1.0/EN

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.