



1 Identification

- **Product identifier**
- **Trade name** **NATUR LED OIL ÖLWACHS Semi Gloss**
- **Article number:** 1385-0040
- **Application of the substance / the mixture** Paint
- **Uses advised against** Uses other than those recommended.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Heidelberg Coatings
 Dr. Rentzsch GmbH

 Kurpfalzring 100a
 69123 Heidelberg
 Germany

 Tel.: +49(0) 6221 / 7485-0
 Fax: +49(0) 6221 / 7485-24
 Mail: info@heidelbergcoatings.com
- **Informing department:** Product safety department.
- **Emergency telephone number:**
 Tel.: +49(0) 6221 / 7485-16 (Mo.-Fr. 7:30-16:00)
 Mail: info@heidelbergcoatings.com

2 Hazard(s) identification

- **Classification of the substance or mixture**
 Eye Damage 1 H318 Causes serious eye damage.
 Sensitization - Skin 1 H317 May cause an allergic skin reaction.
- **Label elements**
- **GHS label elements**
 The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**


 GHS05 GHS07
- **Signal word** Danger
- **Hazard-determining components of labeling:**
 propylidynetrimethanol, ethoxylated, esters with acrylic acid
 Dipropylenglykoldiacrylat
 Fatty acids, tall-oil, reaction products with diethylenetriamine compds. with polyethylene glycol
 hydrogen maleate C9-11-alkyl ether

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Polymere Reaktionsprodukte aus Fettsäuren und ethoxylierten Alkoholen mit Diethylentriamine und 2,5-Furandion

· Hazard statements

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves / 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.

P310 Immediately call a doctor.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

· Classification system

· NFPA ratings (scale 0-4)



Health = 3

Fire = 1

Reactivity = 0

· Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· **Description:** Mixture of the substances listed below with harmless additions.

· Dangerous components:

28961-43-5	propylidynetrimethanol, ethoxylated, esters with acrylic acid	50-100%
	⚠ Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
57472-68-1	Dipropylenglykoldiacrylat	2.5-10%
	⚠ Eye Damage 1, H318; ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317	
1262797-52-3	Fatty acids, tall-oil, reaction products with diethylenetriamine compds. with polyethylene glycol hydrogen maleate C9-11-alkyl ether	<2.5%
	⚠ Sensitization - Skin 1, H317	
1268617-32-8	Polymere Reaktionsprodukte aus Fettsäuren und ethoxylierten Alkoholen mit Diethylentriamine und 2,5-Furandion	<0.5%
	⚠ Sensitization - Skin 1, H317	

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

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4 First-aid measures

- **Description of first aid measures**
- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation**
Supply fresh air; consult doctor in case of symptoms.
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact** Instantly rinse with water.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** In case of persistent symptoms consult doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** Allergic reactions
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards arising from the substance or mixture**
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Use breathing protection against the effects of fumes/dust/aerosol.
- **Environmental precautions:**
Do not allow product to reach sewage system or water bodies.
No special measures required.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

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· Protective Action Criteria for Chemicals

· PAC-1:

108-95-2	phenol	15 ppm
111-40-0	2,2'-iminodiethylamine	3 ppm
112-55-0	n-dodecanethiol	0.3 ppm

· PAC-2:

108-95-2	phenol	23 ppm
111-40-0	2,2'-iminodiethylamine	8.5 ppm
112-55-0	n-dodecanethiol	0.5 ppm

· PAC-3:

108-95-2	phenol	200 ppm
111-40-0	2,2'-iminodiethylamine	51 ppm
112-55-0	n-dodecanethiol	3 ppm

7 Handling and storage

· Handling

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

· Conditions for safe storage, including any incompatibilities

· Storage

· Requirements to be met by storerooms and containers:

Provide solvent resistant, sealed floor.

Provide floor trough without outlet.

Store in cool location.

· Information about storage in one common storage facility: Store away from oxidizing agents.

· Further information about storage conditions: Keep container tightly sealed.

· Storage class 10

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

· Control parameters

· Components with critical values that require monitoring at the workplace:

· Additional information: The lists that were valid during the compilation were used as basis.

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- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
 Keep away from foodstuffs, beverages and food.
 Instantly remove any soiled and impregnated garments.
 Wash hands during breaks and at the end of the work.
 Avoid contact with the eyes and skin.
- **Breathing equipment:**



In case of insufficient ventilation, use gas filters for organic gases/vapors (boiling point > 65 °C, e.g. EN 14387 type A)

- **Protection of hands:**



Protective gloves.

- **Material of gloves**

We recommend:

Nitril / Neopren ; strenght >0,7 mm

naturelatex; strenght > 1,0 mm

z.B.: Marigold Z51G ; ME101 ; ME104

(breakdown time >180 min)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed safety glasses.

- **Body protection:** Protective work clothing.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:

Fluid

Colour:

According to product specification

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· Smell:	Characteristic
· Odor threshold:	Not determined.
· pH-value:	Mixture is non-polar/aprotic.
· Change in condition	
Melting point/Melting range:	-44 °C (-47.2 °F)
Boiling point/Boiling range:	104.5 °C (220.1 °F)
· Flash point	
(ISO 3679 / ISO 3680; SETA CLOSED CUP):	137 °C (278.6 °F) (DIN EN 456)
· Inflammability (solid, gaseous)	Not applicable.
· Auto igniting:	240 °C (464 °F)
· Decomposition temperature:	Not determined.
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Not determined.
· Critical values for explosion:	
Lower:	1.8 Vol %
Upper:	6.9 Vol %
· Steam pressure:	Not determined.
· Density (DIN 51757) at 20 °C (68 °F):	1.237 g/cm ³ (10.323 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
dynamic:	Not determined.
kinematic at 20 °C (68 °F):	25 s (ISO 6 mm)
· Solvent content:	
· Water:	
VOC,USA g/l	0.0 g/l
· Solids content(DIN 53189):	99.9 %
· Other information	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.

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- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** When diluting, always add acid to water, never vice versa
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Bases, oxidizing agents, amines
- **Hazardous decomposition products:** No dangerous decomposition products known

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

28961-43-5 propylidynetrimethanol, ethoxylated, esters with acrylic acid

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>13,200 mg/kg (rabbit)

57472-68-1 Dipropylenglykoldiacrylat

Oral	LD50	3,530 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
	EC20	>1,000 mg/l (bacteriae)

Isopropylthioxanthon

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

Synthetisches Hartwachs

Oral	LD50	>3,000 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible by skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

108-95-2	phenol	3
128-37-0	Butylated hydroxytoluene	3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**· **Aquatic toxicity:**

28961-43-5 propylidynetrimethanol, ethoxylated, esters with acrylic acid

EC50 70.7 mg/l (daphniae) (48 h; *Daphnia magna*)

2.2 mg/l (algae)

1 mg/l (bacteriae)

LC50 1.95 mg/l (fish) (96 h; *Brachydanio rerio*)

159034-91-0 propylidynetrimethanol, ethoxylated, esters with acrylic acid, reaction products with diethylamine

EC10 17 mg/l (algae)

NOEC 22 mg/l (bacteriae)

EC50 >100 mg/l (daphniae)

47 mg/l (algae)

>1,000 mg/l (bacteriae)

LC50 >100 mg/l (fish) (*Danio rerio*, 96h)

7778-18-9 calcium sulphate, natural

EC50 >79 mg/l (daphniae)

>79 mg/l (algae)

>790 mg/l (bacteriae)

LC50 >79 mg/l (fish)

57472-68-1 Dipropylenglykoldiacrylat

EC10 2.2 mg/l (algae)

EC50 22.3 mg/l (daphniae) (48 h)

16.7 mg/l (algae) (72)

LC50 2.2-4.6 mg/l (fish) (96 h)

· **Persistence and degradability** Heavily biodegradable· **Bioaccumulative potential** May be accumulated in organism· **Mobility in soil** No further relevant information available.· **Additional ecological information:**· **AOX-indication:** not relevant· **According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:**

none

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· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**· **Recommendation** Must not be disposed of together with household garbage.· **Uncleaned packagings:**· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**· **DOT, ADR, IMDG, IATA**

Void

· **UN proper shipping name**· **DOT, ADR, IMDG, IATA**

Void

· **Transport hazard class(es)**· **DOT, ADR, ADN, IMDG, IATA**· **Class**

Void

· **Packing group**· **DOT, ADR, IMDG, IATA**

Void

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

Transport only in sealed and upright standing containers. Transport only by persons instructed concerning the measures in case of spilling or accident.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **UN "Model Regulation":**

Void

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15 Regulatory information

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

· **SARA Section 355 (extremely hazardous substances)**

108-95-2	phenol
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· **SARA Section 313 (specific toxic chemical listings)**

108-95-2	phenol
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· **TSCA (Toxic Substances Control Act)**

28961-43-5	propylidynetrimethanol, ethoxylated, esters with acrylic acid	ACTIVE
7778-18-9	calcium sulphate, natural	ACTIVE
57472-68-1	Dipropylenglykoldiacrylat	ACTIVE
108-95-2	phenol	ACTIVE
111-40-0	2,2'-iminodiethylamine	ACTIVE
18479-58-8	Dihydromyrcenol	ACTIVE
27606-09-3	2,4-dimethyl-4,4a,5,9b-tetrahydroindeno[1,2-d]-1,3-dioxin	ACTIVE
79-77-6	(E)-.beta.-Ionone	ACTIVE
2050-08-0	Amyl salicylate	ACTIVE
81782-77-6	4-Methyl-3-decen-5-ol	ACTIVE
128-37-0	Butylated hydroxytoluene	ACTIVE
20298-69-5	cis-2-tert-Butylcyclohexyl acetate	ACTIVE
68039-49-6	2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde	ACTIVE
112-55-0	n-dodecanethiol	ACTIVE
67634-00-8	allyl (3-methylbutoxy)acetate	ACTIVE

· **Hazardous Air Pollutants**

108-95-2	phenol
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· **Prop 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

108-95-2	phenol	D, I
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· **TLV (Threshold Limit Value)**

108-95-2	phenol	A4
128-37-0	Butylated hydroxytoluene	A4

· **MAK (German Maximum Workplace Concentration)**

108-95-2	phenol	3B
128-37-0	Butylated hydroxytoluene	4

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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements** according to (EU)878/2020· **National regulations**· **Information about limitation of use:** none· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The REACH registration numbers given in chapter 1 (for substances) or chapter 3 (for formulations) are given to our present knowledge resulting from the information provided by our suppliers.

· **Department issuing data specification sheet:** Environment protection department.· **Contact:** Product safety department· **Date of preparation / last revision** 01/02/2024· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Skin 1: Skin sensitisation – Category 1

· *** Data compared to the previous version altered.**