Safety data sheet
according to UK REACH

Printing date 29.04.2026 Version number 2.1 Revision: 29.04.2026

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

Product identifier

Trade name: **LED Smart Oil**

Article number: 5980-5991

Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

Application of the substance / the mixture Coating compound/ Surface coating/ paint
Paint

Details of the supplier of the safety data sheet

Manufacturer/Supplier: Osmo Holz und Color GmbH & Co. KG
Affhüppen Esch 12
D-48231 Warendorf
Germany

Further information obtainable from: Product safety department
Tel.: +49 (0) 251 / 692 - 188
Fax: +49 (0) 251 / 692 - 462
e-mail: helmut.starp@osmo.de

Emergency telephone number: emergency phone no. Berlin (24h): +49 (0) 30 / 30686 790 advisory service in German and English
IE: National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)
Healthcare Professionals: +353 (1) 809 2566 (24 hour service)
Members of the public seeking specific information on poisons should contact:
In England and Wales: NHS 111 - dial 111
In Scotland: NHS 24 - dial 111

Importer Importer for UK:
OSMO UK,
Smeaton Close
Unit 24 Anglo Business Park
Aylesbury, Bucks HP19 8UP
Phone: 01296 481 220, www.osmouk.com
United Kingdom

2 Hazards identification

Classification of the substance or mixture

Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

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

Label elements

Hazard pictograms



GHS07

Signal word Warning

Hazard-determining components of labelling:
Glycerol, propoxylated, esters with acrylic acid
propylidynetrimethanol, ethoxylated, esters with acrylic acid, reaction products with diethylamine
Propylidynetrimethanol, ethoxylated, esters with acrylic acid
Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate

Hazard statements
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
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.
P501	Dispose of contents/container in accordance with national regulations.

Other hazards
Always wear a dust mask when sanding.
Observe the general safety regulations when handling chemicals.

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

*

3 Composition/information on ingredients

Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 52408-84-1 NLP: 500-114-5 Reg.nr.: 01-2119487948-12	Glycerol, propoxylated, esters with acrylic acid Eye Irrit. 2, H319; Skin Sens. 1, H317	10-50%
CAS: 159034-91-0 NLP: 500-425-6 Reg.nr.: 01-2119976593-23	propylidynetrimethanol, ethoxylated, esters with acrylic acid, reaction products with diethylamine Eye Irrit. 2, H319; Skin Sens. 1, H317	10–25%

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CAS: 28961-43-5 NLP: 500-066-5 Index number: 605-001-00-1 Reg.nr.: 01-2119489900-30	Propylidynetrimethanol, ethoxylated, esters with acrylic acid Consisting of: 15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate (0.3–<1%) Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥2.5–<10%
CAS: 84434-11-7 EINECS: 282-810-6 Reg.nr.: 01-2119987994-10	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate Aquatic Chronic 2, H411; Skin Sens. 1B, H317	>1–<2.5%
CAS: 162627-22-7	Polyphosphoric acids, reaction products with 2-oxepanone, polyethylene glycol mono-Me ether and tetrahydro-2H-pyran-2-one Eye Irrit. 2, H319	0–≤2.5%
CAS: 162881-26-7 ELINCS: 423-340-5 Index number: 015-189-00-5 Reg.nr.: 01-2119489401-38	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide Skin Sens. 1A, H317; Aquatic Chronic 4, H413	≥0.1–<1%
CAS: 4394-85-8 EINECS: 224-518-3	4-morpholinecarbaldehyde Skin Sens. 1B, H317	≥0.1–<1%

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

4 First aid measures

Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
If skin irritation or rash occurs: Get medical advice/attention.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Rinse mouth.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

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5 Firefighting measures

Extinguishing media
Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
For safety reasons unsuitable extinguishing agents: Water with full jet
Special hazards arising from the substance or mixture No further relevant information available.
Advice for firefighters
Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective clothing.
Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Dispose of the material collected according to regulations.
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 disposal information.

7 Handling and storage

Handling:
Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
Avoid contact with skin and eyes.
General protective and hygienic measures: Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.

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Do not carry product impregnated cleaning cloths in trouser pockets.

Information about fire - and explosion protection: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required

Further information about storage conditions: Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

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

8 Exposure controls/personal protection

Control parameters

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs		
CAS: 4394-85-8 4-morpholinecarbaldehyde		
Oral	DNEL Verbraucher (Langzeit - systemische Effekte)	8 mg/kgKG/Tag
Dermal	DNEL Arbeitnehmer (Langzeit - lokale Effekte)	0.293 mg/kgKG/Tag
Inhalative	Worker (chronic - Systemic health effec)	98 mg/m³
	DNEL Verbraucher (Lanzeit - systemische Effekte)	29 mg/m³

PNECs	
CAS: 52408-84-1 Glycerol, propoxylated, esters with acrylic acid	
PNEC sea water	0.000574 mg/l
PNEC fresh water	0.00574 mg/l
PNEC sediment (fresh water)	0.01697 mg/kg
PNEC sediment (sea water)	0.001697 mg/kg
PNEC soil	0.00111 mg/kg
PNEC sewage treatment plant	10 mg/l
CAS: 28961-43-5 Propylidynetrimethanol, ethoxylated, esters with acrylic acid	
PNEC sea water	0.000195 mg/l
PNEC fresh water	0.00195 mg/l
PNEC sediment (fresh water)	0.0082 mg/kg

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PNEC sediment (sea water)	0.00082 mg/kg
PNEC soil	0.00587 mg/kg
PNEC sewage treatment plant	10.1 mg/l

Additional information: The lists valid during the making were used as basis.

Exposure controls
Personal protective equipment:
General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.
Store protective clothing separately.
Do not eat, drink, smoke or sniff while working.
Avoid contact with the eyes and skin.
Wash hands before breaks and at the end of work.
See Section 7 for information on safe handling.

Respiratory protection: Not necessary if room is well-ventilated.
If aerosols or spray mist are unintentionally generated or the ventilation is inadequate, use the following:
Particle filter P2 according to EN 143

Protection of hands: chemical resistant gloves (EN 374)
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves 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.
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.2-0.4 mm
Selection and replacement frequency depending on duration and intensity of contact.

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.

For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR

As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR

Eye protection: Tightly sealed goggles
Gauze goggles

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Body protection: Protective work clothing
Remove contaminated clothing and wash before reuse.

Limitation and supervision of exposure into the environment Avoid release to the environment.

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9 Physical and chemical properties

Information on basic physical and chemical properties
General Information
Appearance:
Form: Fluid
Colour: According to product specification
Odour: Mild
Odour threshold: Not determined

pH-value: Mixture is non-polar/aprotic.

Change in condition
Melting point/freezing point: Undetermined
Initial boiling point and boiling range: Undetermined

Flash point: > 100 °C (DIN EN ISO 2719)

Flammability Not applicable

Decomposition temperature: Not determined

Ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:
Lower: Not determined
Upper: Not determined

Vapour pressure: Not determined

Density at 20 °C: 1.125–1.165 g/cm³ (DIN 51757)
Relative density Not determined
Evaporation rate Not determined

Solubility in / Miscibility with water: Not miscible or difficult to mix.

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Partition coefficient: n-octanol/water:	Not determined
Viscosity:	
Dynamic:	Not determined
Solvent content:	
VOC (EC)	<10 g/l
Other information	No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.
Chemical stability
Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
Possibility of hazardous reactions No dangerous reactions known.
Conditions to avoid No further relevant information available.
Incompatible materials: No further relevant information available.
Hazardous decomposition products: No hazardous decomposition products when stored and handled correctly.

11 Toxicological information

Information on toxicological effects
Acute toxicity

LD/LC50 values relevant for classification:		
CAS: 52408-84-1 Glycerol, propoxylated, esters with acrylic acid		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	>5 mg/l /(Staub/ Duns (rat)
CAS: 28961-43-5 Propylidynetrimethanol, ethoxylated, esters with acrylic acid		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
		>13,200 mg/kg (rabbit)
CAS: 84434-11-7 Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate		
Oral	LD50	>5,000 mg/kg (rat) (experimentelle/berechnete Daten)
Dermal	LD50	>2,000 mg/kg (rat)

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Trade name: LED Smart Oil

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CAS: 162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

CAS: 4394-85-8 4-morpholinecarbaldehyde		
Oral	LD50	6,500 mg/kg (rat)

Primary irritant effect:

Skin corrosion/irritation No irritant effect.
Based on available data, the classification criteria are not met.

Serious eye damage/irritation Irritating effect.
Causes serious eye irritation.

Respiratory or skin sensitisation May cause an allergic skin reaction.

Subacute to chronic toxicity:

CAS: 84434-11-7 Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate	
NOAEL	>500 mg/Tag (rat)

Additional toxicological information: Irritant

Sensitisation May cause an allergic skin reaction.

12 Ecological information

Toxicity

Aquatic toxicity:

CAS: 52408-84-1 Glycerol, propoxylated, esters with acrylic acid	
EC50 / 48h	91.4 mg/l (daphnia)
	91.4 mg/l (Daphnia magna)
EC50/ 72h	12.2 mg/l (algae)
	12.2 mg/l (Desmodesmus subspicatus)
LC50 / 96h	5.74 mg/l (Brachydanio rerio)
	5.74 mg/l (zebrafish)
Chronisch NOEC / 21Tage	0.000574 mg/l
NOEC / 3 days	1.59 mg/l (Brachydanio rerio)
	0.921 mg/l (Desmodesmus subspicatus)

CAS: 28961-43-5 Propylidynetrimethanol, ethoxylated, esters with acrylic acid	
EC50 / 48h	70.7 mg/l (Daphnia magna)
EC50/ 72h	2.2 mg/l (algae)
LC50 / 96h	1.95 mg/l (fish)

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CAS: 84434-11-7 Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate	
EC50 / 48h	10–100 mg/l (Daphnia magna)
biodegradability	<10 % (28 Tage)
CAS: 162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	
biodegradability	1 % (29 Tage)

Persistence and degradability No further relevant information available.
Behaviour in environmental systems:

Bioaccumulative potential	
CAS: 84434-11-7 Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate	
log POW	2.91
CAS: 162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	
log POW	5.8

Mobility in soil No further relevant information available.
Ecotoxical effects:

Behaviour in sewage processing plants:	
CAS: 52408-84-1 Glycerol, propoxylated, esters with acrylic acid	
EC 20 / 3h	507 mg/l (act)
CAS: 28961-43-5 Propylidynetrimethanol, ethoxylated, esters with acrylic acid	
EC10	0.323 mg/l (algae)
EC 20 / 3h	292 mg/l (activated sludge organism)

Additional ecological information:
General notes: Do not allow product to reach ground water, water course or sewage system.
The material is harmful to the environment.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
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 Do not clean empty packaging before disposal.
Paint must not be flushed down the drain, not even when cleaning painting tools.
Consumers: Dispose of paint leftovers at your local household hazardous waste collection point.
Professionals: Dispose of paint leftovers by contracting a waste management company.

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For information on the prevention of the release of synthetic polymer particles see Section 15

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number ***ADR, IMDG, IATA***	Not applicable
UN proper shipping name ***ADR, IMDG, IATA***	Not applicable
Transport hazard class(es) ***ADR, ADN, IMDG, IATA*** ***Class***	Not applicable
Packing group ***ADR, IMDG, IATA***	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	Not applicable
Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
UN "Model Regulation":	Not applicable

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
Poisons Act

Regulated explosives precursors
None of the ingredients is listed.

Regulated poisons
None of the ingredients is listed.

Reportable explosives precursors
None of the ingredients is listed.

Reportable poisons
None of the ingredients is listed.

GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).

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Hazard pictograms



GHS07

Signal word Warning

Hazard-determining components of labelling:
Glycerol, propoxylated, esters with acrylic acid
propylidynetrimethanol, ethoxylated, esters with acrylic acid, reaction products with diethylamine
Propylidynetrimethanol, ethoxylated, esters with acrylic acid
Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate

Hazard statements
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
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.
P501	Dispose of contents/container in accordance with national regulations.

Chemical safety assessment
Named dangerous substances - ANNEX I None of the ingredients is listed.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

Classification according to Regulation (EC) No 1272/2008 The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Department issuing SDS: product safety department
Contact: Hr. Dr. Starp

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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
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)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Skin Sens. 1B: Skin sensitisation – Category 1B
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

Sources
ESIS : European chemical Substances Information System
ECHA Portal
Safety data sheets from raw material suppliers

**** Data compared to the previous version altered.***
Additions, Deletions, Revisions
Updated according to regulation (EU) 2020/878 amending regulation (EC) No: 1907/2006 (UK REACH)