

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/16/2024

Version 1.0

Reviewed on 08/16/2024

1 Identification

Product identifier
Trade name: LED Smart Oil

Article number: FM 052 0243B

**Application of the substance
/ the mixture** Paint

Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Supplier Osmo Wood and Colour Canada Ltd.
 8812 51 Ave NW
 Edmonton AB T6E 5E8
 Canada
 Tel: +1-844-OSMOCAN
 E-mail: info@osmo.ca

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

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

**Emergency telephone
number:** 24h-Emergency Phone Number:
 For Chemical Emergency, Spill; Leak; Fire Exposure or Accident Call Day or
 Night within USA and Canada 1-800-424-9300
 Outside USA and Canada 001-703-527-3887 (CCN 16475)

2 Hazard identification

Classification of the substance or mixture

Skin Irritation - Category 2 H315 Causes skin irritation.

Eye Irritation - Category 2A H319 Causes serious eye irritation.

Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction.

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

Label elements
Hazard pictograms


GHS07

Signal word Warning

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**Hazard-determining
components of labeling:**

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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.

P264 Wash thoroughly after handling.

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.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with national
regulations.

Classification system:
NFPA ratings (scale 0 - 4)

Health = 2

Fire = 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *2

Fire = 1

Reactivity = 0

Other hazards

Always wear a dust mask when sanding.

Observe the general safety regulations when handling chemicals.

3 Composition/Information on ingredients

Chemical characterization: Mixtures
Description:

Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

52408-84-1	Glycerol, propoxylated, esters with acrylic acid ⚠ Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	15–40% w/w
159034-91-0	propylidynetrimethanol, ethoxylated, esters with acrylic acid, reaction products with diethylamine ⚠ Skin Sensitizer - Category 1, H317	10–30% w/w

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28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid Consisting of: 15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate (0.3-<1%) ⚠ Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	≥5-<10% w/w
84434-11-7	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate ⚠ Skin Corrosion - Category 1A, H314; Serious Eye Damage - Category 1, H318; ⚠ Skin Sensitizer - Category 1, H317	≥1-<3% w/w
162627-22-7	Polyphosphoric acids, reaction products with 2-oxepanone, polyethylene glycol mono-Me ether and tetrahydro-2H-pyran-2-one ⚠ Eye Irritation - Category 2A, H319	0.5-5% w/w
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide ⚠ Skin Sensitizer - Category 1A, H317	≥0.1-<1% w/w
4394-85-8	4-morpholinecarbaldehyde ⚠ Skin Sensitizer - Category 1B, H317	≥0.1-<1% w/w

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.

Do NOT induce vomiting.

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.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents:

Water with full jet

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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 collected material 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.
Do not carry product impregnated cleaning cloths in trouser pockets.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

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

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Information about storage in**one common storage facility:** Not required.**Further information about****storage conditions:**

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Storage class:

10

Specific end use(s)

No further relevant information available.

8 Exposure controls/ Personal protection

Control parameters**Components 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.

Additional information:

The lists that were valid during the creation were used as basis.

Exposure controls**Personal protective equipment:****General protective and****hygienic measures:**

The usual precautionary measures for handling chemicals should be followed. Store protective clothing separately.

Do not eat, drink, smoke or sniff while working.

See Section 7 for information on safe handling.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Protection of hands:

Protective gloves

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.

Penetration time of glove material

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

Eye protection:

Tightly sealed goggles

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Body protection: Protective work clothing

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9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:
Form:

Fluid

Color:

According to product specification

Odor:

Mild

Odor threshold:

Not determined.

pH-value:

Mixture is non-polar/aprotic.

Change in condition

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

Undetermined.

Flash point:

> 100 °C (DIN EN ISO 2719)

Flammability (solid, gaseous):

Not applicable.

Decomposition temperature:

Not determined.

Ignition temperature:

Product is not selfigniting.

Danger of explosion:

Product does not present an explosion hazard.

Explosion limits:
Lower:

Not determined.

Upper:

Not determined.

Vapor pressure:

Not determined.

Density at 20 °C:
1.1–1.255 g/cm³ (DIN 51757)
Relative 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.

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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 that are relevant for classification:
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)

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)

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)

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)

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4394-85-8 4-morpholinecarbaldehyde

Oral	LD50	6,500 mg/kg (rat)
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Primary irritant effect:**on the skin:** Causes skin irritation.**on the eye:** Irritating effect.

Causes serious eye irritation.

Sensitization: May cause an allergic skin reaction.**Subacute to chronic toxicity:****84434-11-7 Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate**

NOAEL	>500 mg/Tag (rat)
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Additional toxicological**information:** Irritant**Carcinogenic categories****IARC (International Agency for Research on Cancer)**

7631-86-9	silicon dioxide, chemically prepared	3
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128-37-0	Butylated hydroxytoluene	3
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NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information**Toxicity****Aquatic toxicity:****52408-84-1 Glycerol, propoxylated, esters with acrylic acid**

EC50 / 48h	91.4 mg/l (Daphnia magna)
EC50/ 72h	12.2 mg/l (Desmodesmus subspicatus)
LC50 / 96h	5.74 mg/l (Brachydanio rerio)
Chronisch NOEC / 21Tage	0.000574 mg/l
NOEC / 3 days	1.59 mg/l (Brachydanio rerio)
	0.921 mg/l (Desmodesmus subspicatus)

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)

84434-11-7 Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate

EC50 / 48h	10–100 mg/l (Daphnia magna)
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Biolog. Abbaubarkeit	<10 % (28 Tage)
162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	
Biolog. Abbaubarkeit	1 % (29 Tage)

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

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

Mobility in soil No further relevant information available.

Ecotoxicological effects:

Behavior in sewage processing plants:	
28961-43-5 Propylidynetrimehanol, 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: Water hazard class 1 (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: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number	Not applicable
DOT/TDG, ADR, IMDG, IATA	

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UN proper shipping name <i>DOT/TDG, ADR, IMDG, IATA</i>	Not applicable
Transport hazard class(es) <i>DOT/TDG, ADR, ADN, IMDG, IATA</i> Class	Not applicable
Packing group <i>DOT/TDG, ADR, IMDG, IATA</i>	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 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
Sara

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances

Control Act): All ingredients are listed.

Canadian substance listings:

Canadian Domestic Substances List (DSL)

All ingredients are listed.

Canadian Non-Domestic Substances List (NDSL)

None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%)

7631-86-9	silicon dioxide, chemically prepared
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GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

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Hazard pictograms

GHS07

Signal word

Warning

Hazard-determining components of labeling:

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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.

P264 Wash thoroughly after handling.

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.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with national
 regulations.

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

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

Department issuing SDS:

product safety department

Contact:

Hr. Dr. Starp

Date of the latest revision of the safety data sheet

08/16/2024 / -

Abbreviations and acronyms:

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

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Sources

ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
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

CA