



The following technical datasheet is provided by Osmo.

For further information please either give us a call or visit the manufacturer's website.

Wood Floors and Accessories cannot be held liable for the information contained within this document.  
All information is correct at the time of download from the manufacturer.

---

Spilsby Road • Harold Hill • Romford • RM3 8SB • **T** 020 8501 6730 • **E** [info@wfa.uk.net](mailto:info@wfa.uk.net) • **W** [www.wfa.uk.net](http://www.wfa.uk.net)

Registered in England under Company No: 03746590 VAT No: 765 9995 45



## UV-PROTECTION-OIL

Perfectly protected against the sun – the first clear UV protection for the outdoors!



410 Clear  
Satin, without  
film protection



### PRODUCT DESCRIPTION

Clear, satin wood finish based on natural oil for wood in outdoor areas. Microporous surface allows the wood to breathe and reduces swelling and shrinkage. Water-repellent, will not crack, peel or flake.

Simply apply without sanding. Easy and seamless application. Finish stays workable while coating.

As top coat on already colour treated wood, Osmo UV-Protection-Oil prolongs the renovation intervals significantly. As a single product application, it blocks the greying process on vertical surfaces with a UV protection factor 12 in comparison to untreated wood when two coats are applied.

The dry finish is safe for humans, animals and plants (resistant to saliva and perspiration acc. German DIN 53160, suitable for children's toys acc. EN 71.3).

### RECOMMENDED USE

Osmo UV-Protection-Oil is ideal for all vertical wood surfaces in outdoor areas: doors, windows, window shutters (dimensionally stable elements), carports, timber cladding, balconies, fences, pergolas, and summer houses (dimensionally unstable elements).

### INGREDIENTS

Based on natural plant oils (sunflower oil, soya oil, thistle oil and linseed oil), siccatives (drying agents) and additives. Dearomatized white spirit (benzene-free). EU limit value for this product (cat. A/e): 400 g/l VOC (2010). This product contains max. 400 g/l VOC. Detailed declaration of ingredients available upon request.

### TECHNICAL DATA

Specific gravity: 0.9-1.0 g/cm<sup>3</sup>

Viscosity: >50s DIN EN ISO 2431/3 mm, viscid

Odour: faint/mild, odourless after drying

Flash point: >60 °C acc. DIN EN ISO 2719

### STORAGE

Up to 5 years and longer if can is kept dry and closed tightly. If thickened by frost, store for 24-36 hours at room temperature before use.

### SURFACE PREPARATION

Wood surface must be clean, dry and frost-free (moisture content max. 20%).

Osmo UV-Protection-Oil is ready to use. Do not thin. Stir well before use.

If possible, please apply the first coat to all sides before installation.

Fresh wood, containing natural wood extractives and especially hard wood needs to weather off (for approximately 6 weeks) after installation. Thereby the wood becomes absorbent and the wood finish adheres optimally.

A coloured base coat is recommended, e.g. Osmo One Coat Only, Natural Oil Woodstain or Country Colour.

For renovations, clean old microporous wood finishes thoroughly. Degrey any already greyed wood with Osmo Wood Reviver Power-Gel before applying Osmo Clean old microporous stains thoroughly. Old paints and lacquers must be completely removed. As a general rule, wear a dust mask during sanding works. Do not sand smooth surfaces finer than P120. The finished surface is influenced by several factors, including the condition of the wood. Therefore, a trial application is always required, especially for unfamiliar surfaces.

If additional protection against blue stain, rot and insects is desired, pre-treat the wood if possible on all sides with Osmo WR Base Coat.



## METHODS OF APPLICATION

With Osmo Flat Brush or Osmo Microfibre Roller, apply thinly along the wood grain and spread well.

Allow to dry for approx. 12 hours under good ventilation. Then apply the second coat.

When recoating colour treated surfaces, or for renovation works, one coat applied to the clean and dry surface is usually sufficient.

## CLEANING OF TOOLS

With Osmo Brush Cleaner (free of aromatic compounds).

## DRYING TIME

Approx. 12 hours (normal climatic conditions, 23 °C/ 50 % rel. humidity). Lower temperatures and/or higher air humidity can increase the drying time. Ventilate well while drying.

## COVERAGE

1 litre covers approx. 18 m<sup>2</sup> with one coat.

Coverage depends significantly on the condition of the wood. All information refers to smooth and planed/sanded surfaces. Other surfaces may lead to differences in coverage.

## NOTE

Oils enhance the natural tone of wood (permanent wet effect).

Depending on the degree of weathering, apply one coat of Osmo UV-Protection-Oil to the cleaned and intact finish after approx. 3-4 years.

For areas exposed to strong weathering, such as weatherboard, post caps or window sills, please expect significantly shorter renovation intervals. Vertical elements mounted onto horizontal wood should have at least a 15 degree angle. Sharp edges must be rounded (radius > 2 mm).

If the greying process has already begun, degrey the surface with Osmo Wood Reviver Power Gel and refinish with 2 coats of Osmo UV-Protection-Oil.

To achieve the UV protection factor 12, it is necessary to apply 2 coats of UV-Protection-Oil. With only one coat on untreated wood, the life of the coating is significantly shorter.

Due to high oil content, the coating has a light yellowing effect when used as a top coat on white substrates. Therefore, we recommend using Natural Oil Woodstain 900 White as a top coat in such cases.

## CAUTION

Keep out of the reach of children. Do not get in eyes, on skin, or on clothing. If medical advice is needed, have product container or label at hand. Use only outdoors or in a well-ventilated area. Harmful to aquatic life with long lasting effects. Avoid release to the environment. Warning: Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of selfignition). The dried finish is classified as B2 (normal flammability) according to DIN 4102 regulations.

Safety data sheet available on request.

## DISPOSAL

Dispose of leftover product and completely emptied packaging according to local official guidelines (waste code number 08 01 11). Only completely emptied cans can be recycled.

## COLOUR TONE

410 Clear Satin, without film protection

## CAN SIZES

0.75 L; 2.5 L; 25 L

The above mentioned information is provided to the best of our knowledge however without any liability.

Version 02/17

**Material Safety Data Sheets**  
 according to 1907/2006/EC, Article 31

Printing date 22.05.2018

Version number 6

Revision: 11.05.2018

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

**Trade name:** **410 Osmo UV-Protection-Oil, clear satin**

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

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

**1.3 Details of the supplier of the safety data sheet**

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

**Further information obtainable from:**

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

**1.4 Emergency telephone number:**

emergency phone no. Berlin (24h): +49 (0) 30 / 30686 790 advisory service in German and English

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms** Void

**Signal word** Void

**Hazard statements** H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P262 Do not get in eyes, on skin, or on clothing.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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

**Additional information:** Observe the general safety regulations when handling chemicals.

Always wear a dust mask when sanding.

**2.3 Other hazards**

Warning:

Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition)

(Contd. on page 2)

**Material Safety Data Sheets**  
 according to 1907/2006/EC, Article 31

Printing date 22.05.2018

Version number 6

Revision: 11.05.2018

**Trade name: 410 Osmo UV-Protection-Oil, clear satin**

(Contd. of page 1)

**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

EC number: 918-481-9 Index number: 649-327-00-6 Reg.nr.: 01-2119457273-39	aliphatic hydrocarbons, C10-C13 ----- ☠ Asp. Tox. 1, H304	25-50%
CAS: 127519-17-9 ELINCS: 407-000-3 Index number: 607-281-00-4 Reg.nr.: 01-0000015648-61	A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethyl-ethyl)-4-hydroxyphenyl]propionates ----- ☠ Aquatic Chronic 2, H411	2.5-10%

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

### SECTION 4: First aid measures

**4.1 Description of first aid measures****General information:** Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

**After inhalation:** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.**After swallowing:** Induce vomiting only, if affected person is fully conscious.

If swallowed, seek medical advice immediately and show this container or label.

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

Headache

Dizziness

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

No further relevant information available.

(Contd. on page 3)

**Material Safety Data Sheets**  
 according to 1907/2006/EC, Article 31

Printing date 22.05.2018

Version number 6

Revision: 11.05.2018

**Trade name: 410 Osmo UV-Protection-Oil, clear satin**

(Contd. of page 2)

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:**

Water with full jet

#### 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

#### 5.3 Advice for firefighters

**Protective equipment:**

Mouth respiratory protective device.

**Additional information**

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation  
 Keep away from ignition sources.

#### 6.2 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.

#### 6.3 Methods and material for containment and cleaning up:

Warm water and cleansing agent  
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).  
 Ensure adequate ventilation.

#### 6.4 Reference to other sections

See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Keep receptacles tightly sealed.  
 Use only in well ventilated areas.  
 Keep away from heat and direct sunlight.  
 Prevent formation of aerosols.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

#### 7.2 Conditions for safe storage, including any incompatibilities

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.  
 Store in a cool location.

(Contd. on page 4)

**Material Safety Data Sheets**  
 according to 1907/2006/EC, Article 31

Printing date 22.05.2018

Version number 6

Revision: 11.05.2018

**Trade name: 410 Osmo UV-Protection-Oil, clear satin**

(Contd. of page 3)

**Information about storage in one common storage facility:**

Do not store together with alkalis (caustic solutions).  
 Do not store together with oxidising and acidic materials.

**Further information about storage conditions:**

Store receptacle in a well ventilated area.  
 Protect from frost.  
 Keep container tightly sealed.  
 Store in cool, dry conditions in well sealed receptacles.

**7.3 Specific end use(s)**

No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

**Additional information about design of technical facilities:**

No further data; see item 7.

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

**aliphatic hydrocarbons, C10-C13**

TWA (8 H)	Long-term value: 1.000 mg/m <sup>3</sup> , 150 ppm ppm Source: UK SIA
-----------	--

**Additional information:**

The lists valid during the making were used as basis.

**8.2 Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.  
 Do not carry product impregnated cleaning cloths in trouser pockets.  
 Immediately remove all soiled and contaminated clothing  
 Keep away from foodstuffs, beverages and feed.  
 Avoid contact with the eyes and skin.  
 Do not inhale gases / fumes / aerosols.

**Respiratory protection:**

Use suitable respiratory protective device only when aerosol or mist is formed.  
 Not necessary if room is well-ventilated.  
 Short term filter device:  
 Filter A/P2

**Protection of hands:**

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**

Nitrile rubber, NBR

**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.

(Contd. on page 5)

**Trade name: 410 Osmo UV-Protection-Oil, clear satin**

(Contd. of page 4)

**For the permanent contact gloves made of the following materials are suitable:**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.4$  mm

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

**As protection from splashes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

**Eye protection:**

If risk of splashing:

Safety glasses according to EN 166:2001 (e.g. densely closing frame glasses with side protection)

**Body protection:**

Protective work clothing

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### General Information

##### Appearance:

**Form:** Fluid

**Colour:** According to product specification

**Odour:** Mild

##### Change in condition

**Melting point/freezing point:** Undetermined.

**Initial boiling point and boiling range:**  $> 180$  °C

**Flash point:**  $\geq 65$  °C (DIN ISO EN 2719)

**Ignition temperature:** 240 °C

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

##### Explosion limits:

**Lower:** 0.6 Vol %

**Upper:** 7.0 Vol %

**Density at 20 °C:** 0.95-0.97 g/cm<sup>3</sup> (DIN 51757)

**Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

(Contd. on page 6)



**Trade name: 410 Osmo UV-Protection-Oil, clear satin**

(Contd. of page 5)

**Viscosity:****Dynamic:**

Not determined.

**Kinematic at 20 °C:**

60-70 s (DIN 53211/4)

>21 mm<sup>2</sup>/s (40°C)**9.2 Other information**

No further relevant information available.

### SECTION 10: Stability and reactivity

**10.1 Reactivity**

No further relevant information available.

**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions**

Reacts with fabric soaked in the product (e.g. cleaning wool).

**10.4 Conditions to avoid**

No further relevant information available.

**10.5 Incompatible materials:**

No further relevant information available.

**10.6 Hazardous decomposition products:**

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO<sub>x</sub>)**Additional information:**

Warning:

Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition)

### SECTION 11: Toxicological information

**11.1 Information on toxicological effects****Acute toxicity**

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

**LD/LC50 values relevant for classification:****aliphatic hydrocarbons, C10-C13**

Oral LD50 &gt; 5000 mg/kg (rat) (OECD 401)

Dermal LD50 &gt; 5000 mg/kg (rat) (OECD 402)

Inhalative LC50 / 4h 21 mg/l (rat) (OECD 403)

**127519-17-9 A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethyl-ethyl)-4-hydroxyphenyl]propionates**

Inhalative LC50 / 4h &gt;5 mg/l (rat)

**Primary irritant effect:****Skin corrosion/irritation**

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

**Serious eye damage/irritation**

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

(Contd. on page 7)

**Trade name: 410 Osmo UV-Protection-Oil, clear satin**

(Contd. of page 6)

<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)</b>	
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity:**

**aliphatic hydrocarbons, C10-C13**

EC50 / 48h	> 1000 mg/l (daphnia) (OECD 202)
EC50/ 72h	> 1000 mg/l (algae) (OECD 201)
LC50 / 96h	> 1000 mg/l (fish) (OECD 203)
Biolog. Abbaubarkeit	(leicht abbaubar)

**127519-17-9 A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethyl-ethyl)-4-hydroxyphenyl]propionates**

EC50 / 48h	3.2 mg/l mg/l (daphnia) (OECD-Richtlinie 202, Teil 1)
Biokonz.-Faktor	<3 (OECD-Richtlinie 305 C)

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**Ecotoxical effects:**

**Remark:** Harmful to aquatic life with long lasting effects.

**Additional ecological information:**

**General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 8)

**Trade name: 410 Osmo UV-Protection-Oil, clear satin**

(Contd. of page 7)

**European waste catalogue**

08 01 11	waste paint and varnish containing organic solvents or other dangerous substances
15 01 10	packaging containing residues of or contaminated by dangerous substances

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agents:** Solvent naphtha

**SECTION 14: Transport information****14.1 UN-Number**

**ADR, ADN, IMDG, IATA** Void

**14.2 UN proper shipping name**

**ADR** Void

**ADN, IMDG, IATA** Void

**14.3 Transport hazard class(es)**

**ADR, ADN, IMDG, IATA**

**Class** Void

**14.4 Packing group**

**ADR, IMDG, IATA** Void

**14.5 Environmental hazards:**

**Marine pollutant:** No

**14.6 Special precautions for user**

Not applicable.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

**UN "Model Regulation":**

Void

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

**VOC (EC)** < 400 g/l (VOC-max. Cat A/e (2010) = 400 g/l)

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 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.

(Contd. on page 9)

**Material Safety Data Sheets**  
according to 1907/2006/EC, Article 31

Printing date 22.05.2018

Version number 6

Revision: 11.05.2018

**Trade name: 410 Osmo UV-Protection-Oil, clear satin**

(Contd. of page 8)

**Relevant phrases**

H304 May be fatal if swallowed and enters airways.  
H411 Toxic to aquatic life with long lasting effects.

**Department issuing SDS:**

product safety department

**Contact:**

Hr. Dr. Starp

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
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)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Asp. Tox. 1: Aspiration hazard – Category 1  
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