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PRODUCT INFORMATION | EXTERIOR



UV-PROTECTION-OIL EXTRA

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



420 Clear Satin, with 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.

As top coat on already colour treated wood, Osmo UV-Protection-Oil Extra 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.

Osmo UV-Protection-Oil Extra is furnished with active ingredients to protect the coating against mould, algae and fungal attack. Simply apply without sanding. Easy and seamless application. Finish stays workable while coating.

RECOMMENDED USE

Osmo UV-Protection-Oil Extra 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). Also suitable for bamboo poles (e.g. in screens).

INGREDIENTS

Based on natural plant oils (sunflower oil, soya oil, thistle oil and linseed oil), siccatives (drying agents) and additives, biocidal active ingredient: Propiconazole. 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/cm³

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 Exra 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.



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METHODS OF APPLICATION

With Osmo Flat Brush or 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 m² 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 Extra 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 Extra. To achieve the UV protection factor 12, it is necessary to apply 2 coats of UV-Protection-Oil Extra. 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. Osmo UV-Protection-Oil Extra is furnished with biocides and therefore it is only to be used in outdoor areas. The added active ingredients delay or minimize the risk of algae and fungal attack. For effective protection, two coats are to be carried out. In accordance with the latest technical research, permanent protection against algae and fungal attack cannot be provided.

CAUTION

Keep out of the reach of children. Do not get in eyes, on skin, or on clothing. Contains propiconazole. May produce an allergic reaction. If medical advice is need-ed, 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 self-ignition). The dried finish is classified as B2 (normal flammability) according to DIN 4102 regulations. Safety data sheet available on request.

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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

420 Clear Satin, with 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



Printing date 23.05.2018 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: 420 Osmo UV-Protection-Oil Extra, clear satin

1.2 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

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 pictogramsVoidSignal wordVoid

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.

Observe the general safety regulations when handling chemical

Always wear a dust mask when sanding.

Contains propiconazole. May produce an allergic reaction.

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)

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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	aliphatic hydrocarbons, C10-C13 Asp. Tox. 1, H304	25-50%
Reg.nr.: 01-2119457273-39	·	
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	10-<25%
EINECS: 252-104-2	substance with a Community workplace exposure limit	
Reg.nr.: 01-2119450011-60		
CAS: 127519-17-9	A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-	2.5-<10%
ELINCS: 407-000-3	(1,1-dimethyl-ethyl)-4-hydroxyphenyl]propionates	
Index number: 607-281-00-4	Aquatic Chronic 2, H411	
Reg.nr.: 01-0000015648-61		
CAS: 60207-90-1	propiconazole	<1%
EINECS: 262-104-4 Index number: 613-205-00-0	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317	

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

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4.3 Indication of any immediate medical attention and special

treatment needed No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO2, 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.

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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.

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/m³, 150 ppm ppm

Source: UK SIA

34590-94-8 Dipropylene glycol monomethyl ether

WEL Long-term value: 308 mg/m³, 50 ppm

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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

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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.

For the permanent contact gloves made of the following materials

are suitable: Nitrile rubber, NBR

Recommended thickness of the material: ≥ 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, NBREye 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	i on basic p	hysical and	l chemicai	l properties
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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: ≥ 65 °C (DIN EN ISO 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 %

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Upper:	7.0 Vol %
Density at 20 °C:	0.95 g/cm³ (DIN 51757)
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Viscosity:	
Dynamic:	Not determined.
Kinematic at 40 °C:	> 21 mm²/s
Solvent content:	
VOC (EC)	< 400 g/l (VOC-max. Cat A/e (2010) = 400 g/l)
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 avoidNo 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 (NOx)

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	LD/LC50 values relevant for classification:				
aliphatic l	aliphatic hydrocarbons, C10-C13				
Oral	LD50	5000 mg/kg (rat) (OECD 401)			
Dermal	LD50	5000 mg/kg (rat) (OECD 402)			

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Inhalative	LC50 / 4h 21 mg/l (rat) (OECD 403)				
127519-17	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	>5 mg/l (rat)			
60207-90-	60207-90-1 propiconazole				
Oral	LD50	1517 mg/kg (rat) (OECD- Prüfrichtlinie 401)			
Dermal	LD50	> 4000 mg/kg (rat)			
Inhalative	LC50 / 4h	5.8 mg/l (rat) (403 Acute Ihalation Toxicity)			

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/irritationBased on available data, the classification criteria are not met.Respiratory or skin sensitisationBased on available data, the classification criteria are not met.SensitisationContains propiconazole. May produce an allergic reaction.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicityBased on available data, the classification criteria are not met.CarcinogenicityBased on available data, the classification criteria are not met.Reproductive toxicityBased on available data, the classification criteria are not met.STOT-single exposureBased on available data, the classification criteria are not met.STOT-repeated exposureBased on available data, the classification criteria are not met.Aspiration hazardBased 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	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-				
hydroxy	hydroxyphenyl]propionates			
EC50 / 48h	3.2 mg/l mg/l (daphnia) (OECD-Richtlinie 202, Teil 1)			
BiokonzFaktor	<3 (OECD-Richtlinie 305 C)			
60207-90-1 propicon	60207-90-1 propiconazole			
EC50 / 48h	10.2 mg/l (daphnia) (202 Daphnia sp. acute Immobilization)			
EC50/ 72h	9 mg/l (algae) (201 Alga Growth, Inhibition Test (Biomasse))			
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LC50 / 96h 4.3 mg/l (fish) (203 Fish Acute Toxicity)

LC50 / 48h | 10.2 mg/l (fish)

12.2 Persistence and degradabilityNo further relevant information available.12.3 Bioaccumulative potentialNo further relevant information available.12.4 Mobility in soilNo further relevant information available.

Additional ecological information:

General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Danger to drinking water if even small quantities leak into the ground.

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.

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	port information	Transport	14	SECTION
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14.1 UN-Number ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name	not classified as dangerous good	
ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class	Void	
14.4 Packing group		
ADR, IMDG, IATA	Void	

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14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II and the IBC Code	of Marpol Not applicable.
Transport/Additional information:	This product is not hazardous according to Dangerous Goods Regulation
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.

Relevant phrases H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. 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)

VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4

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Skin Sens. 1: Skin sensitisation – Category 1 Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic 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

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