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

Coating compound / Surface coating / paint

Paint

No further relevant information available.

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

1.4 Emergency telephone number:

emergency phone no. Berlin (24h): +49 (0) 30 / 3068 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.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists and extended by company and literature data.

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.

(Contd. on page 2)
Trade name: 410 Osmo UV-Protection-Oil, clear satín

(Contd. of page 1)

P271 Use only outdoors or in a well-ventilated area.
P262 Do not get in eyes, on skin, or on clothing.
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:
Observe the general safety regulations when handling chemicals.
Always wear a dust mask when sanding.
Contains 2-butanonoxime. May produce an allergic reaction.

Information concerning particular hazards for human and environment:
Warning:
Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition)

2.3 Other hazards
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.

<table>
<thead>
<tr>
<th>Dangerous components:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 64742-48-9</td>
<td>aliphatic hydrocarbons, C10-C13</td>
<td>25-50%</td>
</tr>
<tr>
<td>EC number: 918-481-9</td>
<td>Xn R65</td>
<td></td>
</tr>
<tr>
<td>Index number: 649-327-00-6</td>
<td>R66</td>
<td></td>
</tr>
<tr>
<td>Reg.nr.: 01-2119457273-39</td>
<td>Asp. Tox. 1, H304</td>
<td></td>
</tr>
<tr>
<td>CAS: 127519-17-9</td>
<td>A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethyl-ethyl)-4-hydroxyphenyl]propionates</td>
<td>2.5-10%</td>
</tr>
<tr>
<td>ELINCS: 407-000-3</td>
<td>N R51/53</td>
<td></td>
</tr>
<tr>
<td>Index number: 607-281-00-4</td>
<td>Aquatic Chronic 2, H411</td>
<td></td>
</tr>
<tr>
<td>Reg.nr.: 01-0000015648-61</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional information: For the wording of the listed risk 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.

(Contd. on page 3)
Trade name: 410 Osmo UV-Protection-Oil, clear satín

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
- Disziness

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.
- Additional information: 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.

(Contd. of page 4)
Trade name: 410 Osmo UV-Protection-Oil, clear satin

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.

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:

<table>
<thead>
<tr>
<th>64742-48-9 aliphatic hydrocarbons, C10-C13</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA (8 H) Long-term value: 1.000 mg/m³, 150 ppm ppm</td>
</tr>
<tr>
<td>Source: UK SIA</td>
</tr>
</tbody>
</table>

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

(Contd. on page 5)
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, 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/Melting range: Undetermined.
- Boiling point/Boiling range: > 180 °C

Flash point: ≥ 65 °C (DIN ISO EN 2719)

Ignition temperature: 240 °C

Self-igniting: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:
- Lower: 0.6 Vol %
Trade name: 410 Osmo UV-Protection-Oil, clear satin

<table>
<thead>
<tr>
<th>Upper:</th>
<th>7.0 Vol %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density at 20 °C:</td>
<td>0.95-0.97 g/cm³ (DIN 51757)</td>
</tr>
<tr>
<td>Solubility in / Miscibility with water:</td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td>Viscosity: Kinematic at 20 °C:</td>
<td>60-70 s (DIN 53211/4) &gt;21 mm²/s (40 °C)</td>
</tr>
<tr>
<td>Solvent content: VOC (EC):</td>
<td>&lt; 400 g/l (VOC-max. = 400 g/l (2010 A/e))</td>
</tr>
</tbody>
</table>

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity
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 (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:

LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>64742-48-9 aliphatic hydrocarbons, C10-C13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
</tr>
<tr>
<td>Dermal LD50</td>
</tr>
</tbody>
</table>

(Contd. on page 7)
**Trade name:** 410 Osmo UV-Protection-Oil, clear satín

### Inhalative LC50 / 4h

- **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**
  - > 5 mg/l (rat) (OECD 403)

- **96-29-7 2-butanonoxime**
  - > 5 mg/l (rat)

### Oral LD50

- **3700 mg/kg (rat)**

### Dermal LD50

- **200-2000 mg/kg (rat)**

### Inhalative LC50 / 4h

- **> 10.5 mg/l (rat)**

**Primary irritant effect:**

- **on the skin:** At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
- **on the eye:** not tested
- **Sensitisation:** Sensitising effect by skin contact is possible by prolonged exposure.
- **Additional toxicological information:** When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
- **Sensitisation**
  - Contains 2-butanonoxime. May produce an allergic reaction.

### Section 12: Ecological information

#### 12.1 Toxicity

**Aquatic toxicity:**

- **64742-48-9 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)

- **96-29-7 2-butanonoxime**
  - EC50 / 48h 201 mg/l (daphnia)
  - IC50 / 72h 11.8 mg/l (algae)

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

#### 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.

**Ecotoxicological effects:**

- **Remark:** Harmful to aquatic life with long lasting effects.
Trade name: 410 Osmo UV-Protection-Oil, clear satin

### Behaviour in sewage processing plants:

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC50/96h</th>
<th>Effect on fish (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>96-29-7 2-butanonoxime</td>
<td>&gt;100 mg/l</td>
<td>(fish)</td>
</tr>
</tbody>
</table>

### 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

#### 14.1 UN-Number

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

#### 14.2 UN proper shipping name

**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**

#### 14.5 Environmental hazards:

**Marine pollutant:** No

(Contd. on page 9)
**Trade name:** 410 Osmo UV-Protection-Oil, clear sat

<table>
<thead>
<tr>
<th>14.6 Special precautions for user</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>UN &quot;Model Regulation&quot;:</td>
<td>-</td>
</tr>
</tbody>
</table>

**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. = 400 g/l (2010 A/e))

**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**

- H304 May be fatal if swallowed and enters airways.
- H411 Toxic to aquatic life with long lasting effects.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.

**Department issuing MSDS:**

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
- Asp. Tox. 1: Aspiration hazard, Hazard Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

* Data compared to the previous version altered.