

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

Printing date 24.05.2018

Version number 18

Revision: 14.05.2018

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

### **1.1 Product identifier**

**Trade name:****Osmo Natural Oil Woodstain****Article number:**
 700 Pine, 702 Larch, 703 Mahogany, 706 Oak, 707 Walnut, 708 Teak, 710 Stone Pine,  
 712 Ebony, 727 Rosewood, 728 Red Cedar, 729 Fir Green, 731 Oregon Pine, 732  
 Light Oak, 900 White, 903 Basalt Grey, 905 Patina, 906 Pearl Grey, 907 Quartz Grey

### **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**

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

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**2.3 Other hazards**

Always wear a dust mask when sanding.

Contains propiconazole. May produce an allergic reaction.

Warning:

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

**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<br>Index number: 649-327-00-6<br>Reg.nr.: 01-2119457273-39 | aliphatic hydrocarbons, C10-C13<br>-----<br> Asp. Tox. 1, H304                                                                                                                                             | 25-50% |
| CAS: 34590-94-8<br>EINECS: 252-104-2<br>Reg.nr.: 01-2119450011-60               | Dipropylene glycol monomethyl ether<br>substance with a Community workplace exposure limit                                                                                                                                                                                                    | 3-<10% |
| CAS: 60207-90-1<br>EINECS: 262-104-4<br>Index number: 613-205-00-0              | propiconazole<br>-----<br> Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Acute Tox. 4, H302;<br>Skin Sens. 1, H317 | <1%    |

**Additional information:** For the wording of the listed hazard phrases refer to section 16.  
The content of Titanium dioxide varies according to the colour shade.

### 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

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

Dizziness

No further relevant information available.

### 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.

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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/m <sup>3</sup> , 150 ppm ppm<br>Source: UK SIA |
|-----------|--------------------------------------------------------------------------|

**34590-94-8 Dipropylene glycol monomethyl ether**

|     |                                                       |
|-----|-------------------------------------------------------|
| WEL | Long-term value: 308 mg/m <sup>3</sup> , 50 ppm<br>Sk |
|-----|-------------------------------------------------------|

**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.

**Respiratory protection:**

Do not inhale gases / fumes / aerosols.  
 Use suitable respiratory protective device only when aerosol or mist is formed.  
 Not necessary if room is well-ventilated.  
 Short term filter device:  
 Gas filter EN 14387 Type A (organic gas / vapor (boiling point > 65 ° C)).

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|                                                                                         |                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protection of hands:</b>                                                             | The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.<br>Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation       |
| <b>Material of gloves</b>                                                               | Nitrile rubber, NBR                                                                                                                                                                                                               |
| <b>Penetration time of glove material</b>                                               | The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.                                                                                                             |
| <b>For the permanent contact gloves made of the following materials are suitable:</b>   | Nitrile rubber, NBR<br>Recommended thickness of the material: $\geq 0.4$ mm<br>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). |
| <b>As protection from splashes gloves made of the following materials are suitable:</b> | Nitrile rubber, NBR                                                                                                                                                                                                               |
| <b>Eye protection:</b>                                                                  | Goggles recommended during refilling                                                                                                                                                                                              |
| <b>Body protection:</b>                                                                 | Protective work clothing                                                                                                                                                                                                          |

**SECTION 9: Physical and chemical properties**
**9.1 Information on basic physical and chemical properties**
**General Information**
**Appearance:**

|                |                                    |
|----------------|------------------------------------|
| <b>Form:</b>   | Fluid                              |
| <b>Colour:</b> | According to product specification |
| <b>Odour:</b>  | Mild                               |

**Change in condition**

|                                                 |               |
|-------------------------------------------------|---------------|
| <b>Melting point/freezing point:</b>            | Undetermined. |
| <b>Initial boiling point and boiling range:</b> | $> 180$ °C    |

|                     |                             |
|---------------------|-----------------------------|
| <b>Flash point:</b> | $> 61$ °C (DIN EN ISO 2719) |
|---------------------|-----------------------------|

|                              |        |
|------------------------------|--------|
| <b>Ignition temperature:</b> | 240 °C |
|------------------------------|--------|

|                                   |                              |
|-----------------------------------|------------------------------|
| <b>Auto-ignition temperature:</b> | Product is not selfigniting. |
|-----------------------------------|------------------------------|

|                              |                                               |
|------------------------------|-----------------------------------------------|
| <b>Explosive properties:</b> | Product does not present an explosion hazard. |
|------------------------------|-----------------------------------------------|

**Explosion limits:**

|               |           |
|---------------|-----------|
| <b>Lower:</b> | 0.6 Vol % |
| <b>Upper:</b> | 7.0 Vol % |

|                          |                                         |
|--------------------------|-----------------------------------------|
| <b>Density at 20 °C:</b> | 0.96-1.05 g/cm <sup>3</sup> (DIN 51757) |
|--------------------------|-----------------------------------------|

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|                                                |                                               |
|------------------------------------------------|-----------------------------------------------|
| <b>Solubility in / Miscibility with water:</b> | Not miscible or difficult to mix.             |
| <b>Viscosity:</b>                              |                                               |
| <b>Dynamic:</b>                                | Not determined.                               |
| <b>Kinematic at 20 °C:</b>                     | 45-60 s (DIN 53211/3)<br>>21 mm²/s (40°C)     |
| <b>Solvent content:</b>                        |                                               |
| <b>VOC (EC)</b>                                | < 400 g/l (VOC-max. Cat A/e (2010) = 400 g/l) |
| <b>9.2 Other information</b>                   | No further relevant information available.    |

### SECTION 10: Stability and reactivity

|                                                          |                                                                                                                                                     |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>10.1 Reactivity</b>                                   | No further relevant information available.                                                                                                          |
| <b>10.2 Chemical stability</b>                           |                                                                                                                                                     |
| <b>Thermal decomposition / conditions to be avoided:</b> | No decomposition if used and stored according to specifications.                                                                                    |
| <b>10.3 Possibility of hazardous reactions</b>           | Reacts with fabric soaked in the product (e.g. cleaning wool).<br>Reacts with acids, alkalis and oxidising agents.                                  |
| <b>10.4 Conditions to avoid</b>                          | No further relevant information available.                                                                                                          |
| <b>10.5 Incompatible materials:</b>                      | No further relevant information available.                                                                                                          |
| <b>10.6 Hazardous decomposition products:</b>            | Carbon monoxide and carbon dioxide<br>Nitrogen oxides (NOx)                                                                                         |
| <b>Additional information:</b>                           | Warning:<br>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      | >5,000 mg/kg (rat) (OECD 401) |
| Dermal     | LD50      | >5,000 mg/kg (rat) (OECD 402) |
| Inhalative | LC50 / 4h | 21 mg/l (rat) (OECD 403)      |

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**34590-94-8 Dipropylene glycol monomethyl ether**

|            |            |                                                    |
|------------|------------|----------------------------------------------------|
| Oral       | LD50       | >5,000 mg/kg (rat)                                 |
| Dermal     | LD50       | >2,000 mg/kg (rat)<br>13,000-14,000 mg/kg (rabbit) |
| Inhalative | LC50 / 4h  | 1,667 mg/l (rat)                                   |
|            | LC50 / 72h | 0.76 mg/l (selenastrum capricornutum)              |

**60207-90-1 propiconazole**

|            |           |                                                |
|------------|-----------|------------------------------------------------|
| Oral       | LD50      | 1,517 mg/kg (rat) (OECD- Prüfrichtlinie 401)   |
| Dermal     | LD50      | >4,000 mg/kg (rat)                             |
| Inhalative | LC50 / 4h | 5.8 mg/l (rat) (403 Acute Inhalation 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/irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Sensitisation** Contains propiconazole. May produce an allergic reaction.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

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

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** 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           | >1,000 mg/l (daphnia) (OECD 202) |
| EC50/ 72h            | >1,000 mg/l (algae) (OECD 201)   |
| LC50 / 96h           | >1,000 mg/l (fish) (OECD 203)    |
| Biolog. Abbaubarkeit | % (leicht abbaubar)              |

**34590-94-8 Dipropylene glycol monomethyl ether**

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| EC50 / 48h (Static) | 1,919 mg/l (daphnia)                                |
| LC50 / 96h          | 5.3 mg/l (Oncorhynchus mykiss (Regenbogenforelle))  |
| LC50 / 48h          | 10.2 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) |

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**60207-90-1 propiconazole**

|            |                                                             |
|------------|-------------------------------------------------------------|
| EC50 / 48h | 10.2 mg/l (daphnia) (Daphnia sp. Acute Immobilisation Test) |
| EC50/ 72h  | 9 mg/l (algae) (Freshwater Alga Growth Inhibition Test)     |
| LC50 / 96h | 4.3 mg/l (fish) (Fish Acute Toxicity Test)                  |
| LC50 / 48h | 10.2 mg/l (fish)                                            |

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

**12.3 Bioaccumulative potential****60207-90-1 propiconazole**

|         |                                     |
|---------|-------------------------------------|
| log POW | 3.72 (Potential niedrig bis medium) |
|---------|-------------------------------------|

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

**Ecotoxicological effects:**

**Remark:** Harmful to fish

**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

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|                                                                                |                 |
|--------------------------------------------------------------------------------|-----------------|
| <b>14.2 UN proper shipping name</b><br>ADR, ADN, IMDG, IATA                    | Void            |
| <b>14.3 Transport hazard class(es)</b><br>ADR, ADN, IMDG, IATA<br>Class        | Void            |
| <b>14.4 Packing group</b><br>ADR, IMDG, IATA                                   | Void            |
| <b>14.5 Environmental hazards:</b><br>Marine pollutant:                        | No              |
| <b>14.6 Special precautions for user</b>                                       | Not applicable. |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |
| <b>UN "Model Regulation":</b>                                                  | Void            |

### SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations:**

**Marking in accordance with biocide guideline 98/8/EG**

|            |               |        |
|------------|---------------|--------|
| 60207-90-1 | propiconazole | 9 g/kg |
|------------|---------------|--------|

**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.

**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

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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  
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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

GB

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

### **1.1 Product identifier**

**Trade name:** **701 Osmo Natural Oil Woodstain**

**Article number:** 701 Clear

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

**Application of the substance / the mixture** No further relevant information available.

**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.

Contains propiconazole. May produce an allergic reaction.

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**Trade name: 701 Osmo Natural Oil Woodstain**

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**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)

**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<br>Index number: 649-327-00-6<br>Reg.nr.: 01-2119457273-39 | aliphatic hydrocarbons, C10-C13<br>-----<br>⚠ Asp. Tox. 1, H304                                                         | 25-50% |
| CAS: 34590-94-8<br>EINECS: 252-104-2<br>Reg.nr.: 01-2119450011-60               | Dipropylene glycol monomethyl ether<br>substance with a Community workplace exposure limit                              | 3-<10% |
| CAS: 60207-90-1<br>EINECS: 262-104-4<br>Index number: 613-205-00-0              | propiconazole<br>-----<br>⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302;<br>Skin Sens. 1, H317 | <1%    |

**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:** 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.

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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/m <sup>3</sup> , 150 ppm ppm |
|           | Source: UK SIA                                         |

**34590-94-8 Dipropylene glycol monomethyl ether**

|     |                                                 |
|-----|-------------------------------------------------|
| WEL | Long-term value: 308 mg/m <sup>3</sup> , 50 ppm |
|     | Sk                                              |

**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.

**Respiratory protection:**

Do not inhale gases / fumes / aerosols.  
 Use suitable respiratory protective device only when aerosol or mist is formed.  
 Not necessary if room is well-ventilated.  
 Short term filter device:  
 Gas filter EN 14387 Type A (organic gas / vapor (boiling point > 65 ° C)).

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|                                                                                         |                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protection of hands:</b>                                                             | The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.<br>Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation       |
| <b>Material of gloves</b>                                                               | Nitrile rubber, NBR                                                                                                                                                                                                               |
| <b>Penetration time of glove material</b>                                               | The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.                                                                                                              |
| <b>For the permanent contact gloves made of the following materials are suitable:</b>   | Nitrile rubber, NBR<br>Recommended thickness of the material: $\geq 0.4$ mm<br>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). |
| <b>As protection from splashes gloves made of the following materials are suitable:</b> | Nitrile rubber, NBR                                                                                                                                                                                                               |
| <b>Eye protection:</b>                                                                  | Goggles recommended during refilling                                                                                                                                                                                              |
| <b>Body protection:</b>                                                                 | Protective work clothing                                                                                                                                                                                                          |

**SECTION 9: Physical and chemical properties**

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

**General Information**

**Appearance:**

|                |            |
|----------------|------------|
| <b>Form:</b>   | Fluid      |
| <b>Colour:</b> | Colourless |
| <b>Odour:</b>  | Mild       |

**Change in condition**

|                                                 |               |
|-------------------------------------------------|---------------|
| <b>Melting point/freezing point:</b>            | Undetermined. |
| <b>Initial boiling point and boiling range:</b> | $> 180$ °C    |

|                     |                             |
|---------------------|-----------------------------|
| <b>Flash point:</b> | $> 61$ °C (DIN EN ISO 2719) |
|---------------------|-----------------------------|

|                              |        |
|------------------------------|--------|
| <b>Ignition temperature:</b> | 240 °C |
|------------------------------|--------|

|                                   |                              |
|-----------------------------------|------------------------------|
| <b>Auto-ignition temperature:</b> | Product is not selfigniting. |
|-----------------------------------|------------------------------|

|                              |                                               |
|------------------------------|-----------------------------------------------|
| <b>Explosive properties:</b> | Product does not present an explosion hazard. |
|------------------------------|-----------------------------------------------|

**Explosion limits:**

|               |           |
|---------------|-----------|
| <b>Lower:</b> | 0.6 Vol % |
| <b>Upper:</b> | 7.0 Vol % |

|                          |                                         |
|--------------------------|-----------------------------------------|
| <b>Density at 20 °C:</b> | 0.97-0.99 g/cm <sup>3</sup> (DIN 51757) |
|--------------------------|-----------------------------------------|

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|                                                |                                               |
|------------------------------------------------|-----------------------------------------------|
| <b>Solubility in / Miscibility with water:</b> | Not miscible or difficult to mix.             |
| <b>Viscosity:</b>                              |                                               |
| <b>Dynamic:</b>                                | Not determined.                               |
| <b>Kinematic at 20 °C:</b>                     | 25-35 s (DIN 53211/4)<br>>21 mm²/s (40°C)     |
| <b>Solvent content:</b>                        |                                               |
| <b>VOC (EC)</b>                                | < 400 g/l (VOC-max. Cat A/e (2010) = 400 g/l) |
| <b>9.2 Other information</b>                   | No further relevant information available.    |

### SECTION 10: Stability and reactivity

|                                                          |                                                                                                                                                     |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>10.1 Reactivity</b>                                   | No further relevant information available.                                                                                                          |
| <b>10.2 Chemical stability</b>                           |                                                                                                                                                     |
| <b>Thermal decomposition / conditions to be avoided:</b> | No decomposition if used and stored according to specifications.                                                                                    |
| <b>10.3 Possibility of hazardous reactions</b>           | Reacts with fabric soaked in the product (e.g. cleaning wool).<br>Reacts with acids, alkalis and oxidising agents.                                  |
| <b>10.4 Conditions to avoid</b>                          | No further relevant information available.                                                                                                          |
| <b>10.5 Incompatible materials:</b>                      | No further relevant information available.                                                                                                          |
| <b>10.6 Hazardous decomposition products:</b>            | Carbon monoxide and carbon dioxide<br>Nitrogen oxides (NOx)                                                                                         |
| <b>Additional information:</b>                           | Warning:<br>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      | > 5000 mg/kg (rat) (OECD 401) |
| Dermal     | LD50      | > 5000 mg/kg (rat) (OECD 402) |
| Inhalative | LC50 / 4h | 21 mg/l (rat) (OECD 403)      |

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**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 Inhalation 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/irritation**

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

**Respiratory or skin sensitisation**

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

**Sensitisation**

Contains propiconazole. May produce an allergic reaction.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****Germ cell mutagenicity**

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

**Carcinogenicity**

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

**Reproductive toxicity**

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

**STOT-single exposure**

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

**STOT-repeated exposure**

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

**Aspiration hazard**

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)                |

**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)) |
| LC50 / 96h | 4.3 mg/l (fish) (203 Fish Acute Toxicity)                    |
| LC50 / 48h | 10.2 mg/l (fish)                                             |

**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 fish

**Additional ecological information:****General notes:**

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

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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**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

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### 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.

#### 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  
 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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**\* Data compared to the previous version altered.**