

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

1 Identification of the substance/preparation and of the company/undertaking

Product details

Trade name: 004 Osmo Douglas Fir Oil, Natrual shade

Application of the substance / the preparation

Wood treatment
Coating compound/ Surface coating/ paint

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

Information in case of emergency:

emergency phone no. Berlin (24h): +49 (0) 30 / 19240

2 Hazards identification

Hazard description: Not applicable.

Information concerning particular hazards for human and environment:

The product does not have 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.

3 Composition/information on ingredients

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	Xn; R 65-66	25-50%
EINECS: 265-150-3			

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

4 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.

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Trade name: 004 Osmo Douglas Fir Oil, Natrual shade

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

Information for doctor:

The following symptoms may occur: Headache
Dizziness

5 Fire-fighting measures

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

Special hazards caused by the substance, its products of combustion or resulting gases: Formation of toxic gases is possible during heating or in case of fire.

Protective equipment: Mouth respiratory protective device.

Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered receptacles with water spray.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
Ensure adequate ventilation

Measures for environmental protection: Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting: Warm water and cleansing agent
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional information: See Section 13 for disposal information.
No dangerous substances are released.

7 Handling and storage

Handling:

Information for safe handling: Keep away from heat and direct sunlight.
Keep receptacles tightly sealed.
Use only in well ventilated areas.

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Trade name: 004 Osmo Douglas Fir Oil, Natrual shade

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Information about fire - and explosion protection: Prevent formation of aerosols.
Keep ignition sources away - Do not smoke.

Storage:
Requirements to be met by storerooms and receptacles: Store in a cool location.
Store only in the original receptacle.

Information about storage in one common storage facility: Do not store together with alkalis (caustic solutions).
Do not store together with oxidizing and acidic materials.

Further information about storage conditions: Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

64742-48-9 Naphtha (petroleum), hydrotreated heavy (25-50%)

TWA (8H)	Short-term value: 1000 mg/m ³ Source UK SIA
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Additional information: The lists valid during the making were used as basis.

Personal protective equipment:

General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.

Respiratory protection:

Do not carry product impregnated cleaning cloths in trouser pockets.
Use suitable respiratory protective device only when aerosol or mist is formed.
Not necessary if room is well-ventilated.

Protection of hands:

Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

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.

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Trade name: 004 Osmo Douglas Fir Oil, Natrual shade

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

Nitrile rubber, NBR

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

Nitrile rubber, NBR

Eye protection:

Goggles recommended during refilling

Body protection:

Protective work clothing

9 Physical and chemical properties

General Information

Form:	Fluid
Colour:	Light brown
Odour:	Mild

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 180°C

Flash point: 60°C

Ignition temperature: 240°C

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	0.6 Vol %
Upper:	7.0 Vol %

Density at 20°C: 0.9 - 0.98 g/cm³ (DIN 51757)

**Solubility in / Miscibility with
water:**

Not miscible or difficult to mix.

Viscosity:

Kinematic at 20°C: 24 s (ISO 4 mm)

10 Stability and reactivity

**Thermal decomposition /
conditions to be avoided:**

No decomposition if used according to specifications.

Dangerous reactions

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

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Trade name: 004 Osmo Douglas Fir Oil, Natrual shade

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Dangerous decomposition products:

Exothermic reaction.
Forms heat.

Additional information:

Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)

Warning:

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

11 Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	>5 mg/l (rat)

96-29-7 2-butanone oxime

Oral	LD50	3700 mg/kg (rat)
Dermal	LD50	200-2000 mg/kg (rat)
Inhalative	LC50/4 h	20 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:

Irritating effect.

Sensitization:

No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

General notes:

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

Do not allow product to reach ground water, water course or sewage system.

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Trade name: 004 Osmo Douglas Fir Oil, Natrual shade

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13 Disposal considerations

Product:

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

14 Transport information

Land transport ADR/RID (cross-border)

ADR/RID class: 3 Flammable liquids.
Danger code (Kemler): 30
UN-Number: 1263
Packaging group: III
Hazard label: 3
Description of goods: 1263 PAINT

Maritime transport IMDG:

IMDG Class: 3
UN Number: 1263
Label 3
Packaging group: III
EMS Number: F-E,S-E
Marine pollutant: No
Proper shipping name: PAINT

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 3
UN/ID Number: 1263
Label 3
Packaging group: III
Proper shipping name: PAINT

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Trade name: 004 Osmo Douglas Fir Oil, Natrual shade

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15 Regulatory information

Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.
 The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
 Although this product is not subject to identification regulations, we recommend that the safety suggestions are observed.

Safety phrases:

- 2 Keep out of the reach of children.
- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

Special labelling of certain preparations:

Warning:
 Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition).
 Contains 2-butanone oxime. May produce an allergic reaction.
 Safety data sheet available for professional user on request.

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 R-phrases

- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.

Department issuing MSDS:

product safety department

Contact:

Hr. Dr. Starp

Safety Data Sheet

according to 1907/2006/EC, Article 31

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1 Identification of the substance/preparation and of the company/undertaking

Product details

Trade name: **006 Osmo Bangkirai-Oil, Natural shade**

Application of the substance / the preparation

Wood treatment
Coating compound/ Surface coating/ paint

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

Information in case of emergency:

emergency phone no. Berlin (24h): +49 (0) 30 / 19240

2 Hazards identification

Hazard description: Not applicable.

Information concerning particular hazards for human and environment:

The product does not have 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.

3 Composition/information on ingredients

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	Xn; R 65-66	30-60%
EINECS: 265-150-3			

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

4 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.

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Trade name: 006 Osmo Bangkirai-Oil, Natural shade

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

Information for doctor:

The following symptoms may occur: Headache
Dizziness

5 Fire-fighting measures

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

Special hazards caused by the substance, its products of combustion or resulting gases: Formation of toxic gases is possible during heating or in case of fire.

Protective equipment: Mouth respiratory protective device.

Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered receptacles with water spray.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
Ensure adequate ventilation

Measures for environmental protection: Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting: Warm water and cleansing agent
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional information: See Section 13 for disposal information.
No dangerous substances are released.

7 Handling and storage

Handling:

Information for safe handling: Keep away from heat and direct sunlight.
Keep receptacles tightly sealed.
Use only in well ventilated areas.

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Trade name: 006 Osmo Bangkirai-Oil, Natural shade

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Information about fire - and explosion protection: Prevent formation of aerosols.
 Keep ignition sources away - Do not smoke.

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.
 Store only in the original receptacle.

Information about storage in one common storage facility: Do not store together with alkalis (caustic solutions).
 Do not store together with oxidizing and acidic materials.

Further information about storage conditions: Keep container tightly sealed.
 Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

TWA (8H)	Short-term value: 1000 mg/m ³ Source UK SIA
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Additional information: The lists valid during the making were used as basis.

Personal protective equipment:

General protective and hygienic measures:

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

Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.
 Not necessary if room is well-ventilated.

Protection of hands:

Protective gloves
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile rubber, NBR

Penetration time of glove material

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

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Trade name: 006 Osmo Bangkirai-Oil, Natural shade

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

Nitrile rubber, NBR

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

Nitrile rubber, NBR

Eye protection:

Goggles recommended during refilling

Body protection:

Protective work clothing

9 Physical and chemical properties

General Information

Form:	Fluid
Colour:	Light brown
Odour:	Mild

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 180°C

Flash point: > 60°C

Ignition temperature: 240°C

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	0.6 Vol %
Upper:	7.0 Vol %

Density at 20°C: 0.9 - 0.96 g/cm³ (DIN 51757)

**Solubility in / Miscibility with
water:**

Not miscible or difficult to mix.

Viscosity:

Kinematic at 20°C: 35 - 35 s (ISO 4 mm)

10 Stability and reactivity

**Thermal decomposition /
conditions to be avoided:**

No decomposition if used according to specifications.

Dangerous reactions

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

Self igniting.

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Trade name: 006 Osmo Bangkirai-Oil, Natural shade

(Contd. of page 4)

Dangerous decomposition products:

Exothermic reaction.
Forms heat.

Additional information:

Carbon monoxide and carbon dioxide
Nitrogen oxides (NO_x)

Warning:

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

11 Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	>5 mg/l (rat)

96-29-7 2-butanone oxime

Oral	LD50	3700 mg/kg (rat)
Dermal	LD50	200-2000 mg/kg (rat)
Inhalative	LC50/4 h	20 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:

Irritating effect.

Sensitization:

No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

General notes:

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

Do not allow product to reach ground water, water course or sewage system.

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Trade name: 006 Osmo Bangkirai-Oil, Natural shade

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13 Disposal considerations

Product:**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

14 Transport information

Land transport ADR/RID (cross-border)

ADR/RID class: 3 Flammable liquids.
Danger code (Kemler): 30
UN-Number: 1263
Packaging group: III
Hazard label: 3
Description of goods: 1263 PAINT

Maritime transport IMDG:

IMDG Class: 3
UN Number: 1263
Label: 3
Packaging group: III
EMS Number: F-E,S-E
Marine pollutant: No
Proper shipping name: PAINT

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 3
UN/ID Number: 1263
Label: 3
Packaging group: III
Proper shipping name: PAINT

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Revision: 08.02.2008

Trade name: 006 Osmo Bangkirai-Oil, Natural shade

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15 Regulatory information

Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.
 The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
 Although this product is not subject to identification regulations, we recommend that the safety suggestions are observed.

Safety phrases:

- 2 Keep out of the reach of children.
- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

Special labelling of certain preparations:

Warning:
 Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition).
 Contains 2-butanone oxime. May produce an allergic reaction.
 Safety data sheet available for professional user on request.

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 R-phrases

- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.

Department issuing MSDS:

product safety department

Contact:

Hr. Dr. Starp

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2008

Revision: 23.01.2008

1 Identification of the substance/preparation and of the company/undertaking

Product details

Trade name: **007 Osmo Teak-Oil, clear**

Application of the substance / the preparation Wood treatment
Coating compound/ Surface coating/ paint

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

Information in case of emergency: emergency phone no. Berlin (24h): +49 (0) 30 / 19240

2 Hazards identification

Hazard description: Not applicable.

Information concerning particular hazards for human and environment:

The product does not have 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.

3 Composition/information on ingredients

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	Xn; R 65-66	30-60%
EINECS: 265-150-3			

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

4 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.

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Safety Data Sheet

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Trade name: 007 Osmo Teak-Oil, clear

(Contd. of page 1)

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

Information for doctor:

The following symptoms may occur: Headache
Dizziness

5 Fire-fighting measures

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

Special hazards caused by the substance, its products of combustion or resulting gases: Formation of toxic gases is possible during heating or in case of fire.

Protective equipment: Mouth respiratory protective device.

Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered receptacles with water spray.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
Ensure adequate ventilation

Measures for environmental protection: Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting: Warm water and cleansing agent
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional information: See Section 13 for disposal information.
No dangerous substances are released.

7 Handling and storage

Handling:

Information for safe handling: Keep away from heat and direct sunlight.
Keep receptacles tightly sealed.
Use only in well ventilated areas.

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Trade name: 007 Osmo Teak-Oil, clear

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Information about fire - and explosion protection:	Prevent formation of aerosols. Keep ignition sources away - Do not smoke.
Storage:	
Requirements to be met by storerooms and receptacles:	Store in a cool location. Store only in the original receptacle.
Information about storage in one common storage facility:	Do not store together with alkalis (caustic solutions). Do not store together with oxidizing and acidic materials.
Further information about storage conditions:	Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

Additional information about design of technical facilities:	No further data; see item 7.
Ingredients with limit values that require monitoring at the workplace:	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information:	The lists valid during the making were used as basis.
Personal protective equipment:	
General protective and hygienic measures:	Immediately remove all soiled and contaminated clothing Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Do not carry product impregnated cleaning cloths in trouser pockets.
Respiratory protection:	Use suitable respiratory protective device only when aerosol or mist is formed. Not necessary if room is well-ventilated.
Protection of hands:	Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves	Nitrile rubber, NBR
Penetration time of glove material	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 4)

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Trade name: 007 Osmo Teak-Oil, clear

(Contd. of page 3)

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

Nitrile rubber, NBR

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

Nitrile rubber, NBR

Eye protection:

Goggles recommended during refilling

Body protection:

Protective work clothing

9 Physical and chemical properties

General Information

<i>Form:</i>	Fluid
<i>Colour:</i>	Clear
<i>Odour:</i>	Mild

Change in condition

<i>Melting point/Melting range:</i>	Undetermined.
<i>Boiling point/Boiling range:</i>	> 180°C

<i>Flash point:</i>	> 60°C
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<i>Ignition temperature:</i>	240°C
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<i>Self-igniting:</i>	Product is not selfigniting.
-----------------------	------------------------------

<i>Danger of explosion:</i>	Product does not present an explosion hazard.
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Explosion limits:

<i>Lower:</i>	0.6 Vol %
<i>Upper:</i>	7.0 Vol %

<i>Density at 20°C:</i>	0.85 - 0.92 g/cm ³ (DIN 51757)
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*Solubility in / Miscibility with
 water:*

Not miscible or difficult to mix.

Viscosity:

<i>Kinematic at 20°C:</i>	20 - 30 s (ISO 4 mm)
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10 Stability and reactivity

*Thermal decomposition /
 conditions to be avoided:*

No decomposition if used according to specifications.

Dangerous reactions

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

Self igniting.

(Contd. on page 5)

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Trade name: 007 Osmo Teak-Oil, clear

(Contd. of page 4)

Dangerous decomposition products:

Exothermic reaction.
Forms heat.

Additional information:

Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)

Warning:

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

11 Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	>5 mg/l (rat)

96-29-7 2-butanone oxime

Oral	LD50	3700 mg/kg (rat)
Dermal	LD50	200-2000 mg/kg (rat)
Inhalative	LC50/4 h	20 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:

Irritating effect.

Sensitization:

No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

General notes:

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

Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 6)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 23.01.2008

Revision: 23.01.2008

Trade name: 007 Osmo Teak-Oil, clear

(Contd. of page 5)

13 Disposal considerations

Product:

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

14 Transport information

Land transport ADR/RID (cross-border)

ADR/RID class: 3 Flammable liquids.
Danger code (Kemler): 30
UN-Number: 1263
Packaging group: III
Hazard label: 3
Description of goods: 1263 PAINT

Maritime transport IMDG:

IMDG Class: 3
UN Number: 1263
Label 3
Packaging group: III
EMS Number: F-E,S-E
Marine pollutant: No
Proper shipping name: PAINT

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 3
UN/ID Number: 1263
Label 3
Packaging group: III
Proper shipping name: PAINT

(Contd. on page 7)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 23.01.2008

Revision: 23.01.2008

Trade name: 007 Osmo Teak-Oil, clear

(Contd. of page 6)

15 Regulatory information

Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.
 The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
 Although this product is not subject to identification regulations, we recommend that the safety suggestions are observed.

Safety phrases:

- 2 Keep out of the reach of children.
- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

Special labelling of certain preparations:

Warning:
 Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition).
 Contains 2-butanone oxime. May produce an allergic reaction.
 Safety data sheet available for professional user on request.

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 R-phrases

- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.

Department issuing MSDS:

product safety department

Contact:

Hr. Dr. Starp

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

1 Identification of the substance/preparation and of the company/undertaking

Product details

Trade name: 008 Osmo Teak-Oil, Spray, Clear

Application of the substance / the preparation

Paint
Maintenance product

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

Information in case of emergency:

emergency phone no. Berlin (24h): +49 (0) 30 / 19240

2 Hazards identification

Hazard description: F+ Extremely flammable

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.

Warning! Pressurized container.

R 12 Extremely flammable.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Keep out of the reach of children

Classification system:

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

3 Composition/information on ingredients

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	Xn; R 65-66	25-50%
EINECS: 265-150-3			

(Contd. on page 2)

Safety Data Sheet

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Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 008 Osmo Teak-Oil, Spray, Clear

(Contd. of page 1)

CAS: 106-97-8 EINECS: 203-448-7	butane	F+; R 12	10-25%
CAS: 74-98-6 EINECS: 200-827-9	propane	F+; R 12	2.5-10%
CAS: 75-28-5 EINECS: 200-857-2	isobutane	F+; R 12	≤ 2.5%

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

4 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.
After eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing:	If swallowed, seek medical advice immediately and show this container or label.
Information for doctor:	
The following symptoms may occur:	Headache Dizziness

5 Fire-fighting measures

Suitable extinguishing agents:	CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents:	Water with full jet
Special hazards caused by the substance, its products of combustion or resulting gases:	Can form explosive gas-air mixtures. Formation of toxic gases is possible during heating or in case of fire.
Protective equipment:	Mouth respiratory protective device.
Additional information	Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Cool endangered receptacles with water spray.

6 Accidental release measures

Person-related safety precautions: Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.

(Contd. on page 3)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 008 Osmo Teak-Oil, Spray, Clear

(Contd. of page 2)

Measures for environmental protection:

Keep away from ignition sources.

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Measures for cleaning/collecting:

Warm water and cleansing agent

Ensure adequate ventilation.

Additional information:

See Section 13 for disposal information.

7 Handling and storage

Handling:

Information for safe handling:

Keep away from heat and direct sunlight.

Keep receptacles tightly sealed.

Use only in well ventilated areas.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

Information about storage in one common storage facility:

Do not store together with alkalis (caustic solutions).

Do not store together with oxidizing and acidic materials.

Further information about storage conditions:

Store only outside or in explosion proof rooms.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

8 Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see item 7.

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Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 008 Osmo Teak-Oil, Spray, Clear

(Contd. of page 3)

Ingredients with limit values that require monitoring at the workplace:	
64742-48-9 Naphtha (petroleum), hydrotreated heavy (25-50%)	
TWA (8H)	Short-term value: 1000 mg/m ³ Source UK SIA
106-97-8 butane (10-25%)	
WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
74-98-6 propane (2.5-10%)	
AGW	Long-term value: 1800 mg/m ³ , 1000 ppm 4(II);DFG
75-28-5 isobutane (≤ 2.5%)	
OEL	Short-term value: 3800 mg/m ³ , 750 ppm Long-term value: 1900 mg/m ³ , 600 ppm EH 40/97

Additional information: The lists valid during the making were used as basis.

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

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

Respiratory protection:

Not necessary if room is well-ventilated.
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
 Use suitable respiratory protective device in case of insufficient ventilation.
 Filter P3

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

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

Nitrile rubber, NBR

(Contd. on page 5)

Safety Data Sheet
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Trade name: 008 Osmo Teak-Oil, Spray, Clear

(Contd. of page 4)

Eye protection: Tightly sealed goggles
Body protection: Protective work clothing

9 Physical and chemical properties

General Information

Form: Aerosol
Colour: Clear
Odour: Characteristic

Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: -44°C

Flash point: < 0°C

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 %
Upper: 8.5 Vol %

Vapour pressure at 20°C: 2.1 hPa

Density: Not determined.

Solubility in / Miscibility with water:

Not miscible or difficult to mix.

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
 Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Dangerous reactions

Forms explosive gas mixture with air.
 Reacts with fabric soaked in the product (e.g. cleaning wool).
 Self igniting.
 Exothermic reaction.
 Forms heat.

(Contd. on page 6)

Safety Data Sheet
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Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 008 Osmo Teak-Oil, Spray, Clear

(Contd. of page 5)

Dangerous decomposition products:

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).

Must not be applied on the same spraying stand as lacquers or lacquer corrosives that contain NC (nitrocellulose). Risk of self-ignition. Please observe the german accident prevention directive VBG 23.

11 Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	>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:

Irritating effect.

Sensitization:

No sensitizing effects known.

12 Ecological information

General notes:

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

Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

Product:

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
16 05 05	gases in pressure containers other than those mentioned in 16 05 04

(Contd. on page 7)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 008 Osmo Teak-Oil, Spray, Clear

(Contd. of page 6)

15 01 11	metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers
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Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agents:** Solvent naphtha

14 Transport information

Land transport ADR/RID (cross-border)

ADR/RID class: 2 5F Gases.
Danger code (Kemler): 23
UN-Number: 1950
Packaging group: -
Hazard label: 2.1
Description of goods: 1950 AEROSOLS

Maritime transport IMDG:

IMDG Class: 2.1
UN Number: 1950
Label: 2.1
Packaging group: -
EMS Number: F-D,S-U
Marine pollutant: No
Proper shipping name: AEROSOLS

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 2.1
UN/ID Number: 1950
Label: 2.1
Packaging group: -
Proper shipping name: AEROSOLS, flammable

15 Regulatory information

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

F+ Extremely flammable

Risk phrases:

12 Extremely flammable.

Safety phrases:

2 Keep out of the reach of children.

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Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 008 Osmo Teak-Oil, Spray, Clear

(Contd. of page 7)

- 16 Keep away from sources of ignition - No smoking.
 23 Do not breathe fumes/aerosol.
 24/25 Avoid contact with skin and eyes.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 46 If swallowed, seek medical advice immediately and show this container or label.
 51 Use only in well-ventilated areas.
 56 Dispose of this material and its container to hazardous or special waste collection point.

Special labelling of certain preparations:

Warning:

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

Must not be applied on the same spraying stand as lacquers or lacquer corrosives that contain NC (nitrocellulose). Risk of self-ignition. Please observe the german accident prevention directive VBG 23.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Keep out of the reach of children

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 R-phrases

- 12 Extremely flammable.
 65 Harmful: may cause lung damage if swallowed.
 66 Repeated exposure may cause skin dryness or cracking.

Department issuing MSDS:

product safety department

Contact:

Hr. Dr. Starp

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

1 Identification of the substance/preparation and of the company/undertaking

Product details

Trade name: 009 Osmo Larch-Oil, Natural shade

Application of the substance / the preparation

Wood treatment
Coating compound/ Surface coating/ paint

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

Information in case of emergency:

emergency phone no. Berlin (24h): +49 (0) 30 / 19240

2 Hazards identification

Hazard description: Not applicable.

Information concerning particular hazards for human and environment:

The product does not have 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.

3 Composition/information on ingredients

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	Xn; R 65-66	30-60%
EINECS: 265-150-3			

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

4 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.

(Contd. on page 2)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 009 Osmo Larch-Oil, Natural shade

(Contd. of page 1)

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

Information for doctor:

The following symptoms may occur: Headache
Dizziness

5 Fire-fighting measures

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

Special hazards caused by the substance, its products of combustion or resulting gases: Formation of toxic gases is possible during heating or in case of fire.

Protective equipment: Mouth respiratory protective device.

Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered receptacles with water spray.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
Ensure adequate ventilation

Measures for environmental protection: Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting: Warm water and cleansing agent
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional information: See Section 13 for disposal information.
No dangerous substances are released.

7 Handling and storage

Handling:

Information for safe handling: Keep away from heat and direct sunlight.
Keep receptacles tightly sealed.
Use only in well ventilated areas.

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 009 Osmo Larch-Oil, Natural shade

(Contd. of page 2)

Information about fire - and explosion protection: Prevent formation of aerosols.
Keep ignition sources away - Do not smoke.

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.
Store only in the original receptacle.

Information about storage in one common storage facility: Do not store together with alkalis (caustic solutions).
Do not store together with oxidizing and acidic materials.

Further information about storage conditions: Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

TWA (8H)	Short-term value: 1000 mg/m ³ Source UK SIA
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Additional information: The lists valid during the making were used as basis.

Personal protective equipment:

General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.

Respiratory protection:

Do not carry product impregnated cleaning cloths in trouser pockets.
Use suitable respiratory protective device only when aerosol or mist is formed.
Not necessary if room is well-ventilated.

Protection of hands:

Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile rubber, NBR

Penetration time of glove material

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

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 009 Osmo Larch-Oil, Natural shade

(Contd. of page 3)

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

Nitrile rubber, NBR

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

Nitrile rubber, NBR

Eye protection:

Goggles recommended during refilling

Body protection:

Protective work clothing

9 Physical and chemical properties

General Information

Form:	Fluid
Colour:	Light brown
Odour:	Mild

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 180°C

Flash point: > 60°C

Ignition temperature: 240°C

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	0.6 Vol %
Upper:	7.0 Vol %

Density at 20°C: 0.9 - 0.98 g/cm³ (DIN 51757)

**Solubility in / Miscibility with
water:**

Not miscible or difficult to mix.

Viscosity:

Kinematic at 20°C: 25 - 35 s (ISO 4 mm)

10 Stability and reactivity

**Thermal decomposition /
conditions to be avoided:**

No decomposition if used according to specifications.

Dangerous reactions

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

(Contd. on page 5)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 009 Osmo Larch-Oil, Natural shade

(Contd. of page 4)

Dangerous decomposition products:

Exothermic reaction.
Forms heat.

Additional information:

Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)

Warning:

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

11 Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	>5 mg/l (rat)

96-29-7 2-butanone oxime

Oral	LD50	3700 mg/kg (rat)
Dermal	LD50	200-2000 mg/kg (rat)
Inhalative	LC50/4 h	20 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:

Irritating effect.

Sensitization:

No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

General notes:

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

Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 6)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 009 Osmo Larch-Oil, Natural shade

(Contd. of page 5)

13 Disposal considerations

Product:

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

14 Transport information

Land transport ADR/RID (cross-border)

ADR/RID class: 3 Flammable liquids.
Danger code (Kemler): 30
UN-Number: 1263
Packaging group: III
Hazard label: 3
Description of goods: 1263 PAINT

Maritime transport IMDG:

IMDG Class: 3
UN Number: 1263
Label 3
Packaging group: III
EMS Number: F-E,S-E
Marine pollutant: No
Proper shipping name: PAINT

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 3
UN/ID Number: 1263
Label 3
Packaging group: III
Proper shipping name: PAINT

(Contd. on page 7)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 009 Osmo Larch-Oil, Natural shade

(Contd. of page 6)

15 Regulatory information

Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.
 The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
 Although this product is not subject to identification regulations, we recommend that the safety suggestions are observed.

Safety phrases:

- 2 Keep out of the reach of children.
- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

Special labelling of certain preparations:

Warning:
 Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition).
 Contains 2-butanone oxime. May produce an allergic reaction.
 Safety data sheet available for professional user on request.

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 R-phrases

- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.

Department issuing MSDS:

product safety department

Contact:

Hr. Dr. Starp

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2008

Revision: 23.01.2008

1 Identification of the substance/preparation and of the company/undertaking

Product details

Trade name: **010 Osmo Thermowood Oil, Natural shade**

Application of the substance / the preparation

Wood treatment
Coating compound/ Surface coating/ paint

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

Information in case of emergency:

emergency phone no. Berlin (24h): +49 (0) 30 / 19240

2 Hazards identification

Hazard description: Not applicable.

Information concerning particular hazards for human and environment:

The product does not have 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.

3 Composition/information on ingredients

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	Xn; R 65-66	30-60%
EINECS: 265-150-3			

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

4 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.

(Contd. on page 2)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2008

Revision: 23.01.2008

Trade name: 010 Osmo Thermowood Oil, Natural shade

(Contd. of page 1)

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

Information for doctor:

The following symptoms may occur: Headache
Dizziness

5 Fire-fighting measures

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

Special hazards caused by the substance, its products of combustion or resulting gases: Formation of toxic gases is possible during heating or in case of fire.

Protective equipment: Mouth respiratory protective device.

Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered receptacles with water spray.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
Ensure adequate ventilation

Measures for environmental protection: Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting: Warm water and cleansing agent
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional information: See Section 13 for disposal information.
No dangerous substances are released.

7 Handling and storage

Handling:

Information for safe handling: Keep away from heat and direct sunlight.
Keep receptacles tightly sealed.
Use only in well ventilated areas.

(Contd. on page 3)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 23.01.2008

Revision: 23.01.2008

Trade name: 010 Osmo Thermowood Oil, Natural shade

(Contd. of page 2)

Information about fire - and explosion protection:	Prevent formation of aerosols. Keep ignition sources away - Do not smoke.
Storage:	
Requirements to be met by storerooms and receptacles:	Store in a cool location. Store only in the original receptacle.
Information about storage in one common storage facility:	Do not store together with alkalis (caustic solutions). Do not store together with oxidizing and acidic materials.
Further information about storage conditions:	Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

Additional information about design of technical facilities:	No further data; see item 7.
Ingredients with limit values that require monitoring at the workplace:	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information:	The lists valid during the making were used as basis.
Personal protective equipment:	
General protective and hygienic measures:	Immediately remove all soiled and contaminated clothing Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Do not carry product impregnated cleaning cloths in trouser pockets.
Respiratory protection:	Use suitable respiratory protective device only when aerosol or mist is formed. Not necessary if room is well-ventilated.
Protection of hands:	Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves	Nitrile rubber, NBR
Penetration time of glove material	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2008

Revision: 23.01.2008

Trade name: 010 Osmo Thermowood Oil, Natural shade

(Contd. of page 3)

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

Nitrile rubber, NBR

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

Nitrile rubber, NBR

Eye protection:

Goggles recommended during refilling

Body protection:

Protective work clothing

9 Physical and chemical properties

General Information

<i>Form:</i>	Fluid
<i>Colour:</i>	Light brown
<i>Odour:</i>	Mild

Change in condition

<i>Melting point/Melting range:</i>	Undetermined.
<i>Boiling point/Boiling range:</i>	> 180°C

Flash point: > 60°C

Ignition temperature: 240°C

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

<i>Lower:</i>	0.6 Vol %
<i>Upper:</i>	7.0 Vol %

Density at 20°C: 0.92 - 0.99 g/cm³ (DIN 51757)

*Solubility in / Miscibility with
water:*

Not miscible or difficult to mix.

Viscosity:

Kinematic at 20°C: 55 - 65 s (ISO 4 mm)

10 Stability and reactivity

*Thermal decomposition /
conditions to be avoided:*

No decomposition if used according to specifications.

Dangerous reactions

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

Self igniting.

(Contd. on page 5)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 23.01.2008

Revision: 23.01.2008

Trade name: 010 Osmo Thermowood Oil, Natural shade

(Contd. of page 4)

Dangerous decomposition products:

Exothermic reaction.
 Forms heat.
 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).

11 Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	>5 mg/l (rat)

96-29-7 2-butanone oxime

Oral	LD50	3700 mg/kg (rat)
Dermal	LD50	200-2000 mg/kg (rat)
Inhalative	LC50/4 h	20 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: Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
 Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 6)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 23.01.2008

Revision: 23.01.2008

Trade name: 010 Osmo Thermowood Oil, Natural shade

(Contd. of page 5)

13 Disposal considerations

Product:

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

14 Transport information

Land transport ADR/RID (cross-border)

ADR/RID class: 3 Flammable liquids.
Danger code (Kemler): 30
UN-Number: 1263
Packaging group: III
Hazard label: 3
Description of goods: 1263 PAINT

Maritime transport IMDG:

IMDG Class: 3
UN Number: 1263
Label 3
Packaging group: III
EMS Number: F-E,S-E
Marine pollutant: No
Proper shipping name: PAINT

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 3
UN/ID Number: 1263
Label 3
Packaging group: III
Proper shipping name: PAINT

(Contd. on page 7)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 23.01.2008

Revision: 23.01.2008

Trade name: 010 Osmo Thermowood Oil, Natural shade

(Contd. of page 6)

15 Regulatory information

Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.
 The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
 Although this product is not subject to identification regulations, we recommend that the safety suggestions are observed.

Safety phrases:

- 2 Keep out of the reach of children.
- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

Special labelling of certain preparations:

Warning:
 Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition).
 Contains 2-butanone oxime. May produce an allergic reaction.
 Safety data sheet available for professional user on request.

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 R-phrases

- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.

Department issuing MSDS:

product safety department

Contact:

Hr. Dr. Starp

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

1 Identification of the substance/preparation and of the company/undertaking

Product details

Trade name: **013 Osmo Garapa-Oil**

Application of the substance / the preparation Wood treatment
Coating compound/ Surface coating/ paint

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

Information in case of emergency: emergency phone no. Berlin (24h): +49 (0) 30 / 19240

2 Hazards identification

Hazard description: Not applicable.

Information concerning particular hazards for human and environment:

The product does not have 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.

3 Composition/information on ingredients

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	Xn; R 65-66	30-60%
EINECS: 265-150-3			

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

4 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.

(Contd. on page 2)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 013 Osmo Garapa-Oil

(Contd. of page 1)

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

Information for doctor:

The following symptoms may occur: Headache
Dizziness

5 Fire-fighting measures

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

Special hazards caused by the substance, its products of combustion or resulting gases: Formation of toxic gases is possible during heating or in case of fire.

Protective equipment: Mouth respiratory protective device.

Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered receptacles with water spray.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
Ensure adequate ventilation

Measures for environmental protection: Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting: Warm water and cleansing agent
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional information: See Section 13 for disposal information.
No dangerous substances are released.

7 Handling and storage

Handling:

Information for safe handling: Keep away from heat and direct sunlight.
Keep receptacles tightly sealed.
Use only in well ventilated areas.

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 013 Osmo Garapa-Oil

(Contd. of page 2)

Information about fire - and explosion protection: Prevent formation of aerosols.
Keep ignition sources away - Do not smoke.

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.
Store only in the original receptacle.

Information about storage in one common storage facility: Do not store together with alkalis (caustic solutions).
Do not store together with oxidizing and acidic materials.

Further information about storage conditions: Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

TWA (8H)	Short-term value: 1000 mg/m ³ Source UK SIA
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Additional information: The lists valid during the making were used as basis.

Personal protective equipment:

General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.

Respiratory protection:

Do not carry product impregnated cleaning cloths in trouser pockets.
Use suitable respiratory protective device only when aerosol or mist is formed.
Not necessary if room is well-ventilated.

Protection of hands:

Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile rubber, NBR

Penetration time of glove material

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

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 013 Osmo Garapa-Oil

(Contd. of page 3)

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

Nitrile rubber, NBR

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

Nitrile rubber, NBR

Eye protection:

Goggles recommended during refilling

Body protection:

Protective work clothing

9 Physical and chemical properties

General Information

Form:	Fluid
Colour:	Light brown
Odour:	Mild

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 180°C

Flash point: > 60°C

Ignition temperature: 240°C

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	0.6 Vol %
Upper:	7.0 Vol %

Density at 20°C: 0.93 g/cm³ (DIN 51757)

**Solubility in / Miscibility with
water:**

Not miscible or difficult to mix.

Viscosity:

Kinematic at 20°C: 25 - 35 s (DIN 53211/4)

10 Stability and reactivity

**Thermal decomposition /
conditions to be avoided:**

No decomposition if used according to specifications.

Dangerous reactions

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

Self igniting.

(Contd. on page 5)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 013 Osmo Garapa-Oil

(Contd. of page 4)

Dangerous decomposition products:

Exothermic reaction.
 Forms heat.

Additional information:

Carbon monoxide and carbon dioxide
 Nitrogen oxides (NOx)

Warning:

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

11 Toxicological information**Acute toxicity:****LD/LC50 values relevant for classification:****64742-48-9 Naphtha (petroleum), hydrotreated heavy**

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	>5 mg/l (rat)

96-29-7 2-butanone oxime

Oral	LD50	3700 mg/kg (rat)
Dermal	LD50	200-2000 mg/kg (rat)
Inhalative	LC50/4 h	20 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:

Irritating effect.

Sensitization:

No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information**General notes:**

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

Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 6)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 013 Osmo Garapa-Oil

(Contd. of page 5)

13 Disposal considerations**Product:**

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

14 Transport information**Land transport ADR/RID (cross-border)**

ADR/RID class: 3 Flammable liquids.
Danger code (Kemler): 30
UN-Number: 1263
Packaging group: III
Hazard label: 3
Description of goods: 1263 PAINT

Maritime transport IMDG:

IMDG Class: 3
UN Number: 1263
Label 3
Packaging group: III
EMS Number: F-E,S-E
Marine pollutant: No
Proper shipping name: PAINT

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 3
UN/ID Number: 1263
Label 3
Packaging group: III
Proper shipping name: PAINT

(Contd. on page 7)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 013 Osmo Garapa-Oil

(Contd. of page 6)

15 Regulatory information**Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.
 The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
 Although this product is not subject to identification regulations, we recommend that the safety suggestions are observed.

Safety phrases:

- 2 Keep out of the reach of children.
 24/25 Avoid contact with skin and eyes.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 46 If swallowed, seek medical advice immediately and show this container or label.
 51 Use only in well-ventilated areas.

Special labelling of certain preparations:

Warning:
 Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition).
 Contains 2-butanone oxime. May produce an allergic reaction.
 Safety data sheet available for professional user on request.

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 R-phrases

- 65 Harmful: may cause lung damage if swallowed.
 66 Repeated exposure may cause skin dryness or cracking.

Department issuing MSDS:

product safety department

Contact:

Hr. Dr. Starp

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

1 Identification of the substance/preparation and of the company/undertaking

Product details

Trade name: **014 Osmo Massaranduba-Oil**

Application of the substance / the preparation
 Wood treatment
 Coating compound/ Surface coating/ paint

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

Information in case of emergency: emergency phone no. Berlin (24h): +49 (0) 30 / 19240

2 Hazards identification

Hazard description: Not applicable.

Information concerning particular hazards for human and environment:
 The product does not have 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.

3 Composition/information on ingredients

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	Xn; R 65-66	30-60%
EINECS: 265-150-3			

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

4 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.

(Contd. on page 2)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 014 Osmo Massaranduba-Oil

(Contd. of page 1)

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

Information for doctor:

The following symptoms may occur: Headache
Dizziness

5 Fire-fighting measures

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

Special hazards caused by the substance, its products of combustion or resulting gases: Formation of toxic gases is possible during heating or in case of fire.

Protective equipment: Mouth respiratory protective device.

Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered receptacles with water spray.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
Ensure adequate ventilation

Measures for environmental protection: Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting: Warm water and cleansing agent
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional information: See Section 13 for disposal information.
No dangerous substances are released.

7 Handling and storage

Handling:

Information for safe handling: Keep away from heat and direct sunlight.
Keep receptacles tightly sealed.
Use only in well ventilated areas.

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 014 Osmo Massaranduba-Oil

(Contd. of page 2)

Information about fire - and explosion protection: Prevent formation of aerosols.
Keep ignition sources away - Do not smoke.

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.
Store only in the original receptacle.

Information about storage in one common storage facility: Do not store together with alkalis (caustic solutions).
Do not store together with oxidizing and acidic materials.

Further information about storage conditions: Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

TWA (8H)	Short-term value: 1000 mg/m ³ Source UK SIA
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Additional information: The lists valid during the making were used as basis.

Personal protective equipment:

General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.

Respiratory protection:

Do not carry product impregnated cleaning cloths in trouser pockets.
Use suitable respiratory protective device only when aerosol or mist is formed.
Not necessary if room is well-ventilated.

Protection of hands:

Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile rubber, NBR

Penetration time of glove material

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

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 014 Osmo Massaranduba-Oil

(Contd. of page 3)

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

Nitrile rubber, NBR

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

Nitrile rubber, NBR

Eye protection:

Goggles recommended during refilling

Body protection:

Protective work clothing

9 Physical and chemical properties

General Information

Form:	Fluid
Colour:	Light brown
Odour:	Mild

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 180°C

Flash point: > 60°C

Ignition temperature: 240°C

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	0.6 Vol %
Upper:	7.0 Vol %

Density at 20°C: 0.90 - 0.95 g/cm³ (DIN 51757)

**Solubility in / Miscibility with
water:**

Not miscible or difficult to mix.

Viscosity:

Kinematic at 20°C: 25 - 35 s (DIN 53211/4)

10 Stability and reactivity

**Thermal decomposition /
conditions to be avoided:**

No decomposition if used according to specifications.

Dangerous reactions

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

Self igniting.

(Contd. on page 5)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 014 Osmo Massaranduba-Oil

(Contd. of page 4)

Dangerous decomposition products:

Exothermic reaction.
Forms heat.

Additional information:

Carbon monoxide and carbon dioxide
Nitrogen oxides (NO_x)

Warning:

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

11 Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	>5 mg/l (rat)

96-29-7 2-butanone oxime

Oral	LD50	3700 mg/kg (rat)
Dermal	LD50	200-2000 mg/kg (rat)
Inhalative	LC50/4 h	20 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:

Irritating effect.

Sensitization:

No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

General notes:

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

Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 6)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 014 Osmo Massaranduba-Oil

(Contd. of page 5)

13 Disposal considerations

Product:

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

14 Transport information

Land transport ADR/RID (cross-border)

ADR/RID class: 3 Flammable liquids.
Danger code (Kemler): 30
UN-Number: 1263
Packaging group: III
Hazard label: 3
Description of goods: 1263 PAINT

Maritime transport IMDG:

IMDG Class: 3
UN Number: 1263
Label: 3
Packaging group: III
EMS Number: F-E,S-E
Marine pollutant: No
Proper shipping name: PAINT

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 3
UN/ID Number: 1263
Label: 3
Packaging group: III
Proper shipping name: PAINT

(Contd. on page 7)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 08.02.2008

Revision: 08.02.2008

Trade name: 014 Osmo Massaranduba-Oil

(Contd. of page 6)

15 Regulatory information

Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.
 The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
 Although this product is not subject to identification regulations, we recommend that the safety suggestions are observed.

Safety phrases:

- 2 Keep out of the reach of children.
- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

Special labelling of certain preparations:

Warning:
 Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition).
 Contains 2-butanone oxime. May produce an allergic reaction.
 Safety data sheet available for professional user on request.

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 R-phrases

- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.

Department issuing MSDS:

product safety department

Contact:

Hr. Dr. Starp

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 18.02.2008

Revision: 18.02.2008

1 Identification of the substance/preparation and of the company/undertaking

Product details

Trade name: **016 Osmo Bangkirai-Oil, Dark**

Application of the substance / the preparation

Wood treatment
Coating compound/ Surface coating/ paint

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

Information in case of emergency:

emergency phone no. Berlin (24h): +49 (0) 30 / 19240

2 Hazards identification

Hazard description: Not applicable.

Information concerning particular hazards for human and environment:

The product does not have 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.

3 Composition/information on ingredients

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	Xn; R 65-66	30-60%
EINECS: 265-150-3			

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

4 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.

(Contd. on page 2)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 18.02.2008

Revision: 18.02.2008

Trade name: 016 Osmo Bangkirai-Oil, Dark

(Contd. of page 1)

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

Information for doctor:

The following symptoms may occur: Headache
Dizziness

5 Fire-fighting measures

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

Special hazards caused by the substance, its products of combustion or resulting gases: Formation of toxic gases is possible during heating or in case of fire.

Protective equipment: Mouth respiratory protective device.

Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered receptacles with water spray.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
Ensure adequate ventilation

Measures for environmental protection: Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting: Warm water and cleansing agent
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional information: See Section 13 for disposal information.
No dangerous substances are released.

7 Handling and storage

Handling:

Information for safe handling: Keep away from heat and direct sunlight.
Keep receptacles tightly sealed.
Use only in well ventilated areas.

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 18.02.2008

Revision: 18.02.2008

Trade name: 016 Osmo Bangkirai-Oil, Dark

(Contd. of page 2)

Information about fire - and explosion protection: Prevent formation of aerosols.
Keep ignition sources away - Do not smoke.

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.
Store only in the original receptacle.

Information about storage in one common storage facility: Do not store together with alkalis (caustic solutions).
Do not store together with oxidizing and acidic materials.

Further information about storage conditions: Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

TWA (8H)	Short-term value: 1000 mg/m ³ Source UK SIA
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Additional information: The lists valid during the making were used as basis.

Personal protective equipment:

General protective and hygienic measures:

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

Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.
Not necessary if room is well-ventilated.

Protection of hands:

Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile rubber, NBR

Penetration time of glove material

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

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 18.02.2008

Revision: 18.02.2008

Trade name: 016 Osmo Bangkirai-Oil, Dark

(Contd. of page 3)

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

Nitrile rubber, NBR

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

Nitrile rubber, NBR

Eye protection:

Goggles recommended during refilling

Body protection:

Protective work clothing

9 Physical and chemical properties

General Information

Form:	Fluid
Colour:	Dark brown
Odour:	Mild

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 188°C

Flash point: > 60°C

Ignition temperature: 240°C

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	0.6 Vol %
Upper:	7.0 Vol %

Density at 20°C: 0.9 - 1.0 g/cm³ (DIN 51757)

**Solubility in / Miscibility with
water:**

Not miscible or difficult to mix.

Viscosity:

Kinematic at 20°C: 25 - 35 s (DIN 53211/4)

10 Stability and reactivity

**Thermal decomposition /
conditions to be avoided:**

No decomposition if used according to specifications.

Dangerous reactions

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

Self igniting.

(Contd. on page 5)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 18.02.2008

Revision: 18.02.2008

Trade name: 016 Osmo Bangkirai-Oil, Dark

(Contd. of page 4)

Dangerous decomposition products:

Exothermic reaction.
Forms heat.

Additional information:

Carbon monoxide and carbon dioxide
Nitrogen oxides (NO_x)

Warning:

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

11 Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	>5 mg/l (rat)

96-29-7 2-butanone oxime

Oral	LD50	3700 mg/kg (rat)
Dermal	LD50	200-2000 mg/kg (rat)
Inhalative	LC50/4 h	20 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:

Irritating effect.

Sensitization:

No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

General notes:

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

Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 6)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 18.02.2008

Revision: 18.02.2008

Trade name: 016 Osmo Bangkirai-Oil, Dark

(Contd. of page 5)

13 Disposal considerations

Product:

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

14 Transport information

Land transport ADR/RID (cross-border)

ADR/RID class: 3 Flammable liquids.
Danger code (Kemler): 30
UN-Number: 1263
Packaging group: III
Hazard label: 3
Description of goods: 1263 PAINT

Maritime transport IMDG:

IMDG Class: 3
UN Number: 1263
Label 3
Packaging group: III
EMS Number: F-E,S-E
Marine pollutant: No
Proper shipping name: PAINT

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 3
UN/ID Number: 1263
Label 3
Packaging group: III
Proper shipping name: PAINT

(Contd. on page 7)

Safety Data Sheet
 according to 1907/2006/EC, Article 31

Printing date 18.02.2008

Revision: 18.02.2008

Trade name: 016 Osmo Bangkirai-Oil, Dark

(Contd. of page 6)

15 Regulatory information

Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.
 The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
 Although this product is not subject to identification regulations, we recommend that the safety suggestions are observed.

Safety phrases:

- 2 Keep out of the reach of children.
- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

Special labelling of certain preparations:

Warning:
 Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition).
 Contains 2-butanone oxime. May produce an allergic reaction.
 Safety data sheet available for professional user on request.

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 R-phrases

- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.

Department issuing MSDS:

product safety department

Contact:

Hr. Dr. Starp