

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

Printing date 23.05.2018

Version number 12

Revision: 08.05.2018

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

#### 1.1 Product identifier

**Trade name:** Osmo Liquid Wax Cleaner

**Article number:** 3029 clear, 3087 white

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

**advised against** No further relevant information available.

#### Application of the substance / the mixture

Maintenance product  
 Cleaning agent/ Cleaner

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

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

#### Further information obtainable from:

Product safety department

#### 1.4 Emergency telephone number:

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

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to

**Regulation (EC) No 1272/2008** The product is not classified, according to the CLP regulation.

#### 2.2 Label elements

##### Labelling according to Regulation

**(EC) No 1272/2008** Void

**Hazard pictograms** Void

**Signal word** Void

**Hazard statements** Void

**Precautionary statements** Keep out of reach of children.

If medical advice is needed, have product container or label at hand.

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

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

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

EUH066 Repeated exposure may cause skin dryness or cracking.

Safety data sheet available on request.

#### 2.3 Other hazards

Not applicable.

##### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

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**Trade name: Osmo Liquid Wax Cleaner**


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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

EC number: 918-481-9	aliphatic hydrocarbons, C10-C13	 Asp. Tox. 1, H304	50-100%
Index number: 649-327-00-6			
Reg.nr.: 01-2119457273-39			

#### Regulation (EC) No 648/2004 on detergents / Labelling for contents

aliphatic hydrocarbons	≥30%
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**Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**General information:** Take affected persons out into the fresh air.  
Immediately remove any clothing soiled by the product.

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

**After skin contact:** In case of unconsciousness place patient stably in side position for transportation.  
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:** Do not induce vomiting; call for medical help immediately.  
If swallowed, seek medical advice immediately and show this container or label.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

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

**For safety reasons unsuitable extinguishing agents:** Water with full jet

**5.2 Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire.

**5.3 Advice for firefighters**

**Protective equipment:** Mouth respiratory protective device.

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**Trade name: Osmo Liquid Wax Cleaner**

**Additional information**

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

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation  
 Wear protective equipment. Keep unprotected persons away.  
 Keep away from ignition sources.

**6.2 Environmental precautions:**

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

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

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

**6.4 Reference to other sections**

See Section 13 for disposal information.

### SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

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

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

Keep ignition sources away - Do not smoke.  
 Protect against electrostatic charges.

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

**Storage:**

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

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

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

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

**Further information about storage conditions:**

Keep container tightly sealed.  
 Store in cool, dry conditions in well sealed receptacles.

**Storage class:**

10

**7.3 Specific end use(s)**

No further relevant information available.

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**Trade name: Osmo Liquid Wax Cleaner**

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### SECTION 8: Exposure controls/personal protection

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

#### 8.1 Control parameters

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

#### aliphatic hydrocarbons, C10-C13

TWA (8 H)	Long-term value: 1,000 mg/m <sup>3</sup> , 150 ppm ppm Source: UK SIA
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**Additional information:** The lists valid during the making were used as basis.

#### 8.2 Exposure controls

**Personal protective equipment:**

**General protective and hygienic measures:**

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

**Respiratory protection:**

Not necessary if room is well-ventilated.

**Protection of hands:**

To avoid skin problems reduce the wearing of gloves to the required minimum.

**Material of gloves**

Nitrile rubber, NBR

**Penetration time of glove material** The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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

Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.4$  mm  
For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

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

Nitrile rubber, NBR

**Eye protection:**

Goggles recommended during refilling

**Body protection:**

Protective work clothing

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**Trade name: Osmo Liquid Wax Cleaner**

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### SECTION 9: Physical and chemical properties

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

##### General Information

##### Appearance:

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

##### Change in condition

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	180-210 °C

**Flash point:** ~-62 °C (DIN 53213)

**Ignition temperature:** ~200 °C

**Decomposition temperature:** Not determined.

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

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

##### Explosion limits:

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

**Vapour pressure at 20 °C:** <1 hPa

**Density at 20 °C:** 0.77-0.80 g/cm<sup>3</sup> (DIN 51757)

**Relative density** Not determined.

**Evaporation rate** Not determined.

**Solubility in / Miscibility with water:**

Insoluble.

##### Viscosity:

<b>Dynamic at 23 °C:</b>	~18 mPas (DIN 53214)
<b>Kinematic at 40 °C:</b>	> 20 mm <sup>2</sup> /s

##### Solvent content:

**VOC (EC)** ~90 %

**9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No further relevant information available.

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

No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions**

No dangerous reactions known.

**10.4 Conditions to avoid**

No further relevant information available.

**10.5 Incompatible materials:**

No further relevant information available.

**10.6 Hazardous decomposition products:**

No hazardous decomposition products when stored and handled correctly.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****aliphatic hydrocarbons, C10-C13**

Oral	LD50	> 5000 mg/kg (rat) (OECD 401)
Dermal	LD50	> 5000 mg/kg (rat) (OECD 402)
Inhalative	LC50 / 4h	21 mg/l (rat) (OECD 403)

**Primary irritant effect:****Skin corrosion/irritation** At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.**Serious eye damage/irritation** Based on available data, the classification criteria are not met.**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure** Based on available data, the classification criteria are not met.**STOT-repeated exposure** Based on available data, the classification criteria are not met.**Aspiration hazard** Based on available data, the classification criteria are not met.**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****aliphatic hydrocarbons, C10-C13**

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

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**Trade name: Osmo Liquid Wax Cleaner**

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

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

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

**Additional ecological information:**

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

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

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

### SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

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

**European waste catalogue**

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

**Uncleaned packaging:**

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

**Recommended cleansing agents:** Solvent naphtha

### SECTION 14: Transport information

**14.1 UN-Number**

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

**14.2 UN proper shipping name**

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

**14.3 Transport hazard class(es)**

**ADR, ADN, IMDG, IATA**

**Class** Void

**14.4 Packing group**

**ADR, IMDG, IATA** Void

**14.5 Environmental hazards:**

**Marine pollutant:** No

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<b>14.6 Special precautions for user</b>	Not applicable.
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<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
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<b>UN "Model Regulation":</b>	Void
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### **SECTION 15: Regulatory information**

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

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases** H304 May be fatal if swallowed and enters airways.

**Department issuing SDS:** product safety department

**Contact:** Hr. Dr. Starp

**Abbreviations and acronyms:** ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Asp. Tox. 1: Aspiration hazard – Category 1



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

#### 1.1 Product identifier

**Trade name:** Osmo Liquid Wax Cleaner Spray, clear

**Article number:** 3029 Spray

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

**advised against** No further relevant information available.

#### Application of the substance / the mixture

Maintenance product

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

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

#### Further information obtainable from:

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

#### 1.4 Emergency telephone number:

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

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No 1272/2008

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

##### Hazard pictograms



GHS02

##### Signal word

Danger

##### Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

##### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P211 Do not spray on an open flame or other ignition source.  
 P251 Do not pierce or burn, even after use.  
 P260 Do not breathe spray.  
 P262 Do not get in eyes, on skin, or on clothing.

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**Trade name: Osmo Liquid Wax Cleaner Spray, clear**

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<b>Additional information:</b>	P271 Use only outdoors or in a well-ventilated area.
<b>2.3 Other hazards</b>	P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
<b>Results of PBT and vPvB assessment</b>	P501 Dispose of contents/container in accordance with national regulations.
<b>PBT:</b>	EUH066 Repeated exposure may cause skin dryness or cracking.
<b>vPvB:</b>	Not applicable.
	Not applicable.

**SECTION 3: Composition/information on ingredients**
**3.2 Mixtures**
**Description:** Mixture of substances listed below with nonhazardous additions.
**Dangerous components:**

EC number: 927-241-2 Reg.nr.: 01-2119471843-32	aliphatic hydrocarbons, C9-C10 Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 3, H412	50-75%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane Flam. Gas 1, H220; Acute Tox. 3, H331; Press. Gas (Comp.), H280	10-25%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane Flam. Gas 1, H220; Press. Gas (Comp.), H280	2.5-10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-01-8	isobutane Flam. Gas 1, H220; Acute Tox. 3, H331; Press. Gas (Comp.), H280	≤ 2.5%

**Regulation (EC) No 648/2004 on detergents / Labelling for contents**

aliphatic hydrocarbons	≥30%
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**Additional information:** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**
**4.1 Description of first aid measures**

<b>General information:</b>	Immediately remove any clothing soiled by the product. Take affected persons out into the fresh air.
<b>After inhalation:</b>	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
<b>After skin contact:</b>	In case of unconsciousness place patient stably in side position for transportation.
<b>After eye contact:</b>	Immediately wash with water and soap and rinse thoroughly. Rinse opened eye for several minutes under running water. Then consult a doctor.

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

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

**4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### SECTION 5: Firefighting measures

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

**For safety reasons unsuitable extinguishing agents:** Water with full jet

**5.2 Special hazards arising from the substance or mixture** Can form explosive gas-air mixtures.  
Formation of toxic gases is possible during heating or in case of fire.

**5.3 Advice for firefighters**  
**Protective equipment:** Mouth respiratory protective device.  
**Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation  
Wear protective equipment. Keep unprotected persons away.  
Keep away from ignition sources.

**6.2 Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

**6.3 Methods and material for containment and cleaning up:** Warm water and cleansing agent  
Ensure adequate ventilation.

**6.4 Reference to other sections** See Section 13 for disposal information.

### SECTION 7: Handling and storage

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

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**Trade name: Osmo Liquid Wax Cleaner Spray, clear**

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

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

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

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised 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.

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

**Storage:**

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

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

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

Do not store together with alkalis (caustic solutions).

Do not store together with oxidising and acidic materials.

**Further information about storage conditions:**

Store 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.

**7.3 Specific end use(s)**

No further relevant information available.

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

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

No further data; see item 7.

**8.1 Control parameters**

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

**aliphatic hydrocarbons, C9-C10**

TWA (8 H)	Short-term value: 1000 mg/m <sup>3</sup> Source UK SIA
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**106-97-8 butane**

WEL	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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**74-98-6 propane**

AGW	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm 4(II);DFG
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**75-28-5 isobutane**

OEL	Short-term value: 3800 mg/m <sup>3</sup> , 750 ppm Long-term value: 1900 mg/m <sup>3</sup> , 600 ppm EH 40/97
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**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Do not 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.  
Not necessary if room is well-ventilated.

**Respiratory protection:**

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 through 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

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

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

Nitrile rubber, NBR

**Eye protection:**

Tightly sealed goggles

**Body protection:**

Protective work clothing

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**Trade name: Osmo Liquid Wax Cleaner Spray, clear**

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### SECTION 9: Physical and chemical properties

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

##### General Information

##### Appearance:

<b>Form:</b>	Aerosol
<b>Colour:</b>	Colourless
<b>Odour:</b>	Characteristic

##### Change in condition

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	Not applicable, as aerosol.

**Flash point:** Not applicable, as aerosol.

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

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

##### Explosion limits:

<b>Lower:</b>	0.8 Vol %
<b>Upper:</b>	8.5 Vol %

**Vapour pressure at 20 °C:** 10 hPa

**Density:** Not determined.

##### Solubility in / Miscibility with water:

Not miscible or difficult to mix.

##### Viscosity:

<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.

**9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.

#### 10.2 Chemical stability

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

Pressurised 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.

#### 10.3 Possibility of hazardous reactions

Forms explosive gas mixture with air.

#### 10.4 Conditions to avoid

No further relevant information available.

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**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide  
 Nitrogen oxides (NOx)

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

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

#### LD/LC50 values relevant for classification:

##### aliphatic hydrocarbons, C10-C13

Oral	LD50	> 5000 mg/kg (rat) (OECD 401)
Dermal	LD50	> 5000 mg/kg (rat) (OECD 402)
Inhalative	LC50 / 4h	21 mg/l (rat) (OECD 403)

##### 106-97-8 butane

Inhalative	LC50 / 4h	658 mg/l (rat)
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#### Primary irritant effect:

**Skin corrosion/irritation** At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

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

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

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

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

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

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

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

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

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity:

##### aliphatic hydrocarbons, C10-C13

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

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

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

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

**Additional ecological information:**

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

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

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

### SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

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

**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
15 01 11	metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

**Uncleaned packaging:**

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

**Recommended cleansing agents:** Solvent naphtha

### SECTION 14: Transport information

**14.1 UN-Number**

**ADR, IMDG, IATA** UN1950

**14.2 UN proper shipping name**

**ADR** 1950 AEROSOLS  
**IMDG** AEROSOLS  
**IATA** AEROSOLS, flammable

**14.3 Transport hazard class(es)**

**ADR**  
**Class** 2 5F Gases.  
**Label** 2.1

**IMDG, IATA**

**Class** 2.1  
**Label** 2.1

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<b>14.4 Packing group</b> <b>ADR, IMDG, IATA</b>	Void
<b>14.5 Environmental hazards:</b> <b>Marine pollutant:</b>	No
<b>14.6 Special precautions for user</b> <b>Danger code (Kemler):</b> <b>EMS Number:</b> <b>Stowage Code</b>  <b>Segregation Code</b>	Warning: Gases. - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
<b>14.7 Transport in bulk according to Annex II of Marpol</b> <b>and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	
<b>ADR</b> <b>Limited quantities (LQ)</b> <b>Excepted quantities (EQ)</b>  <b>Transport category</b> <b>Tunnel restriction code</b>	1L Code: E0 Not permitted as Excepted Quantity 2 D
<b>IMDG</b> <b>Limited quantities (LQ)</b> <b>Excepted quantities (EQ)</b>	1L Code: E0 Not permitted as Excepted Quantity
<b>UN "Model Regulation":</b>	UN1950, AEROSOLS, 2.1

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### SECTION 15: Regulatory information

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

##### Directive 2012/18/EU

**Qualifying quantity (tonnes) for  
the application of lower-tier  
requirements** 150 t

**Qualifying quantity (tonnes) for  
the application of upper-tier  
requirements** 500 t

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

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

- H220 Extremely flammable gas.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H331 Toxic if inhaled.
- H336 May cause drowsiness or dizziness.
- H412 Harmful to aquatic life with long lasting effects.

**Department issuing SDS:** product safety department

**Contact:** Hr. Dr. Starp

**Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Gas 1: Flammable gases – Category 1
- Aerosol 1: Aerosols – Category 1
- Press. Gas (Comp.): Gases under pressure – Compressed gas
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 3: Acute toxicity – Category 3
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- Asp. Tox. 1: Aspiration hazard – Category 1
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3