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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.01.2014

Version number 1

Revision: 06.01.2014

GB

1.1 Product identifier	
Trade name:	<b>3011 Osmo Polyx®-Oil Original</b>
1.2 Relevant identified uses of substance or mixture and use	-
advised against	No further relevant information available.
Application of the substance	/ the
preparation	Paint
	Coating compound/ Surface coating/ paint
1.3 Details of the supplier of	the safety data sheet
Manufacturer/Supplier:	Osmo Holz und Color GmbH & Co. KG
	Affhüppen Esch 12
	D-48231 Warendorf
Further information obtainal	ble
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 Germa
	and English

## SECTION 2: Hazards identification

Regulation (EC) No 1272/2008	The product is not classified according to the CLP regulation.
Classification according to	
Directive 67/548/EEC or Directiv	<i>pe</i>
1999/45/EC	Not applicable.
Information concerning	
particular hazards for human an	d
environment:	The product does not have to be labelled due to the calculation procedure of th "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 b company and literature data.
2.2 Label elements	
Labelling according to Regulation	n
(EC) No 1272/2008	Void
Hazard pictograms	Void
Signal word	Void
Hazard statements	Void
Precautionary statements	P101 If medical advice is needed, have product container or label at hand.
	P102 Keep out of reach of children.
	(Contd. on page 2



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	P262 Do not get in eyes, on skin, or on clothing.
	P271 Use only outdoors or in a well-ventilated area.
	P501 Dispose of contents/container in accordance with local/regional/nation
	international regulations.
Additional information:	Observe the general safety regulations when handling chemicals.
	Always wear a dust mask when sanding.
	Contains 2-butanonoxime. May produce an allergic reaction.
	Safety data sheet available on request.
2.3 Other hazards	
Results of PBT and vPvB ass	sessment
PBT:	Not applicable.
vPvB:	Not applicable.
SECTION 3: Compositi	on/information on ingredients
3.2 Mixtures	
	Mixture of substances listed below with nonhazardous additions.
Description:	Mixture of substances listed below with nonnazardous additions.
Dangerous components:	
CAS: 64742-48-9	aliphatic hydrocarbons, C10-C13 30-60
Index number: 649-327-00-6	Xn R65
Reg.nr.: 01-2119457273-39	<u>R6</u> 6
	🚯 Asp. Tox. 1, H304
Additional information:	For the wording of the listed risk phrases refer to section 16.
SECTION 4: First aid n	neasures
4.1 Description of first aid m	easures
4.1 Description of first aid m	<i>easures</i> Take affected persons out into the fresh air.
4.1 Description of first aid m General information:	<i>easures</i> Take affected persons out into the fresh air. Immediately remove any clothing soiled by the product.
4.1 Description of first aid m General information:	<i>easures</i> Take affected persons out into the fresh air. Immediately remove any clothing soiled by the product. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Cons
4.1 Description of first aid m General information:	<i>easures</i> Take affected persons out into the fresh air. Immediately remove any clothing soiled by the product. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Cons doctor if symptoms persist.
4.1 Description of first aid m General information: After inhalation:	<i>easures</i> Take affected persons out into the fresh air. Immediately remove any clothing soiled by the product. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Cons doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
4.1 Description of first aid m General information: After inhalation:	<ul> <li>easures</li> <li>Take affected persons out into the fresh air.</li> <li>Immediately remove any clothing soiled by the product.</li> <li>Supply fresh air. If required, provide artificial respiration. Keep patient warm. Cons doctor if symptoms persist.</li> <li>In case of unconsciousness place patient stably in side position for transportation.</li> <li>Immediately wash with water and soap and rinse thoroughly.</li> </ul>
4.1 Description of first aid m General information: After inhalation: After skin contact:	<ul> <li>easures</li> <li>Take affected persons out into the fresh air.</li> <li>Immediately remove any clothing soiled by the product.</li> <li>Supply fresh air. If required, provide artificial respiration. Keep patient warm. Cons doctor if symptoms persist.</li> <li>In case of unconsciousness place patient stably in side position for transportation.</li> <li>Immediately wash with water and soap and rinse thoroughly.</li> <li>If skin irritation continues, consult a doctor.</li> </ul>
4.1 Description of first aid m General information: After inhalation: After skin contact: After eye contact:	<ul> <li>easures</li> <li>Take affected persons out into the fresh air.</li> <li>Immediately remove any clothing soiled by the product.</li> <li>Supply fresh air. If required, provide artificial respiration. Keep patient warm. Cons doctor if symptoms persist.</li> <li>In case of unconsciousness place patient stably in side position for transportation.</li> <li>Immediately wash with water and soap and rinse thoroughly.</li> <li>If skin irritation continues, consult a doctor.</li> <li>Rinse opened eye for several minutes under running water. Then consult a doctor.</li> </ul>
4.1 Description of first aid m General information: After inhalation: After skin contact: After eye contact: After swallowing:	<ul> <li>easures <ul> <li>Take affected persons out into the fresh air.</li> <li>Immediately remove any clothing soiled by the product.</li> <li>Supply fresh air. If required, provide artificial respiration. Keep patient warm. Considoctor if symptoms persist.</li> <li>In case of unconsciousness place patient stably in side position for transportation.</li> <li>Immediately wash with water and soap and rinse thoroughly.</li> <li>If skin irritation continues, consult a doctor.</li> <li>Rinse opened eye for several minutes under running water. Then consult a doctor.</li> <li>Do not induce vomiting; call for medical help immediately.</li> </ul> </li> </ul>
4.1 Description of first aid m General information: After inhalation: After skin contact: After eye contact: After swallowing: 4.2 Most important symptom	<ul> <li>easures <ul> <li>Take affected persons out into the fresh air.</li> <li>Immediately remove any clothing soiled by the product.</li> <li>Supply fresh air. If required, provide artificial respiration. Keep patient warm. Cons doctor if symptoms persist.</li> <li>In case of unconsciousness place patient stably in side position for transportation.</li> <li>Immediately wash with water and soap and rinse thoroughly.</li> <li>If skin irritation continues, consult a doctor.</li> <li>Rinse opened eye for several minutes under running water. Then consult a doctor.</li> <li>Do not induce vomiting; call for medical help immediately.</li> </ul> </li> </ul>
4.1 Description of first aid m General information: After inhalation: After skin contact: After eye contact: After swallowing:	<ul> <li>easures <ul> <li>Take affected persons out into the fresh air.</li> <li>Immediately remove any clothing soiled by the product.</li> <li>Supply fresh air. If required, provide artificial respiration. Keep patient warm. Cons doctor if symptoms persist.</li> <li>In case of unconsciousness place patient stably in side position for transportation.</li> <li>Immediately wash with water and soap and rinse thoroughly.</li> <li>If skin irritation continues, consult a doctor.</li> <li>Rinse opened eye for several minutes under running water. Then consult a doctor.</li> <li>Do not induce vomiting; call for medical help immediately.</li> </ul> </li> </ul>

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## Trade name: 3011 Osmo Polyx®-Oil Original

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant
	foam.
5.2 Special hazards arising from	
the substance or mixture	Formation of toxic gases is possible during heating or in case of fire.
5.3 Advice for firefighters	
Protective equipment:	Mouth respiratory protective device.
Additional information	Cool endangered receptacles with water spray.
	Dispose of fire debris and contaminated fire fighting water in accordance with official
	regulations.

#### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and	
emergency procedures	Ensure adequate ventilation
	Keep away from ignition sources.
6.2 Environmental precautions:	Do not allow to enter sewers/ surface or ground water.
	Inform respective authorities in case of seepage into water course or sewage system.
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 7 for information on safe handling.
	See Section 8 for information on personal protection equipment.
	See Section 13 for disposal information.

### SECTION 7: Handling and storage

7.1 Precautions for safe handling	Keep away from heat and direct sunlight.	
	Use only in well ventilated areas.	
	Keep receptacles tightly sealed.	
	Prevent formation of aerosols.	
Information about fire - and		
explosion protection:	Keep ignition sources away - Do not smoke.	
		(Contd. on page 4)

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## Trade name: 3011 Osmo Polyx®-Oil Original

Storage:	
Requirements to be met by	
storerooms and receptacles:	Store only in the original receptacle.
	Store in a cool location.
Information about storage in or	ne
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 in cool, dry conditions in well sealed receptacles.
	Keep container tightly sealed.
Storage class:	10
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: 64742-48-9 aliphatic hydrocarbons, C10-C13	
Source: UK SIA	
Additional information:	The lists valid during the making were used as basis.
8.2 Exposure controls	
Personal protective equipment	nt:
General protective and hygie	nic
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:	Not necessary if room is well-ventilated.
	Use suitable respiratory protective device only when aerosol or mist is formed.
	Short term filter device:
	Filter A/P2
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
	diffusion and the degradation
	To avoid skin problems reduce the wearing of gloves to the required minimum.
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Material of gloves	Nitrile rubber, NBR
Penetration time of glove materia	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).
For the permanent contact of a	
maximum of 15 minutes gloves	
made of the following materials	
are suitable:	Nitrile rubber, NBR
Eye protection:	If risk of splashing:
	Safety glasses according to EN 166:2001 (e.g. densely closing frame glasses with side
	protection)
Body protection:	Protective work clothing

### SECTION 9: Physical and chemical properties

General Information	
Appearance:	
Form:	Viscous
Colour:	Yellowish
Odour:	Mild
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	180 °C
Flash point:	>63 °C (DIN 53213)
Ignition temperature:	240 °C
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures a possible.
Explosion limits:	
Lower:	0.7 Vol %
Upper:	6.0 Vol %
Density at 20 °C:	0.80-0.95 g/cm <sup>3</sup> (DIN 51757)



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## Trade name: 3011 Osmo Polyx®-Oil Original

		(Contd. of page 5)
Solubility in / Miscibility with water:	Not miscible or difficult to mix.	
Viscosity: Kinematic at 20 °C:	25-35 s (DIN 53211/4mm)	
Solvent content: VOC (EC) 9.2 Other information	< 500 g/l (VOC-max. = 500 g/l (2010 A/i)) No further relevant information available.	

### SECTION 10: Stability and reactivity

10.1 Reactivity	
10.2 Chemical stability	
Thermal decomposition /	
conditions to be avoided:	No decomposition if used according to specifications.
10.3 Possibility of hazardous	
reactions	Reacts with fabric soaked in the product (e.g. cleaning wool).
10.4 Conditions to avoid	No further relevant information available.
10.5 Incompatible materials:	No further relevant information available.
10.6 Hazardous decomposition	
products:	Carbon monoxide and carbon dioxide
	Nitrogen oxides (NOx)
Additional information:	Warning:
	Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition)

## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects Acute toxicity:

64742-48-9 aliphatic hydrocarbons, C10-C13		
Oral	LD50	> 5000 mg/kg (rat) (OECD 401)
Dermal	LD50	> 5000 mg/kg (rat) (OECD 402)
Inhalative	LC50 / 4h	> 5 mg/l (rat) (OECD 403)
96-29-7 2-butanonoxime		
Oral	LD50	3700 mg/kg (rat)
Dermal	LD50	200-2000 mg/kg (rat)
Inhalative	LC50 / 4h	>10.5 mg/l (rat)
	1	(Contd. on pa



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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:	Sensitizing effect by skin contact is possible by prolonged exposure.
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.
Sensitisation	Contains 2-butanonoxime. May produce an allergic reaction.

## SECTION 12: Ecological information

12.1 Toxicity	
---------------	--

water         Do not allow product to reach ground water, water course or sewage system.         12.5 Results of PBT and vPvB assessment         PBT:       Not applicable.         vPvB:       Not applicable.	Aquatic toxicity:			
EC50/72h       > 1000 mg/l (algae) (OECD 201)         LC50 / 96h       > 1000 mg/l (fish) (OECD 203)         96-29-7 2-butanonoxime         EC50 / 48h       201 mg/l (daphnia)         IC50 / 72h       11.8 mg/l (algae)         LC50 / 96h       > 100 mg/l (fish)         IC50 / 96h       > 100 mg/l (fish)         I2.2 Persistence and degradability No further relevant information available.         I2.3 Bioaccumulative potential       No further relevant information available.         I2.4 Mobility in soil       No further relevant information available.         Additional ecological information:       General notes:         Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous water         Do not allow product to reach ground water, water course or sewage system.         12.5 Results of PBT and vPvB assessment         PBT:       Not applicable.         vPvB:       Not applicable.	64742-48-9 aliphatic hydrocarbons, C10-C13			
LC50 / 96h       > 1000 mg/l (fish) (OECD 203)         96-29-7 2-butanonoxime         EC50 / 48h       201 mg/l (daphnia)         IC50 / 72h       11.8 mg/l (algae)         LC50 / 96h       >100 mg/l (fish)         12.2 Persistence and degradability No further relevant information available.         12.3 Bioaccumulative potential       No further relevant information available.         12.4 Mobility in soil       No further relevant information available.         Additional ecological information:       General notes:         Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous water         Do not allow product to reach ground water, water course or sewage system.         12.5 Results of PBT and vPvB assessment         PBT:       Not applicable.         vPvB:       Not applicable.	EC50 / 48h > 1000 mg/l (daphn	ia) (OECD 202)		
96-29-7 2-butanonoxime         EC50 / 48h       201 mg/l (daphnia)         IC50 / 72h       11.8 mg/l (algae)         LC50 / 96h       >100 mg/l (fish)         12.2 Persistence and degradability       No further relevant information available.         12.3 Bioaccumulative potential       No further relevant information available.         12.4 Mobility in soil       No further relevant information available.         Additional ecological information:       General notes:         Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous water         Do not allow product to reach ground water, water course or sewage system.         12.5 Results of PBT and vPvB assessment         PBT:       Not applicable.         vPvB:       Not applicable.	EC50/ 72h > 1000 mg/l (algae)	(OECD 201)		
EC50 / 48h       201 mg/l (daphnia)         IC50 / 72h       11.8 mg/l (algae)         LC50 / 96h       >100 mg/l (fish)         12.2 Persistence and degradability       No further relevant information available.         12.3 Bioaccumulative potential       No further relevant information available.         12.4 Mobility in soil       No further relevant information available.         Additional ecological information:       General notes:         Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous water         Do not allow product to reach ground water, water course or sewage system.         12.5 Results of PBT and vPvB assessment         PBT:       Not applicable.         vPvB:       Not applicable.	LC50 / 96h > 1000 mg/l (fish) (	DECD 203)		
IC50 / 72h       11.8 mg/l (algae)         LC50 / 96h       >100 mg/l (fish)         12.2 Persistence and degradability       No further relevant information available.         12.3 Bioaccumulative potential       No further relevant information available.         12.4 Mobility in soil       No further relevant information available.         12.4 Mobility in soil       No further relevant information available.         Additional ecological information:       General notes:         General notes:       Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous water         Do not allow product to reach ground water, water course or sewage system.         12.5 Results of PBT and vPvB assessment         PBT:       Not applicable.         vPvB:       Not applicable.	96-29-7 2-butanonoxime			
LC50 / 96h       >100 mg/l (fish)         12.2 Persistence and degradability       No further relevant information available.         12.3 Bioaccumulative potential       No further relevant information available.         12.4 Mobility in soil       No further relevant information available.         Additional ecological information:       General notes:         General notes:       Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous water         Do not allow product to reach ground water, water course or sewage system.         12.5 Results of PBT and vPvB assessment         PBT:       Not applicable.         vPvB:       Not applicable.	EC50 / 48h 201 mg/l (daphnia)			
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 water         Do not allow product to reach ground water, water course or sewage system.         12.5 Results of PBT and vPvB assessment         PBT:       Not applicable.         vPvB:       Not applicable.	IC50 / 72h 11.8 mg/l (algae)	/ 72h 11.8 mg/l (algae)		
12.3 Bioaccumulative potentialNo further relevant information available.12.4 Mobility in soilNo further relevant information available.Additional ecological information:Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous water Do not allow product to reach ground water, water course or sewage system.12.5 Results of PBT and vPvB assessmentNot applicable.PBT:Not applicable.vPvB:Not applicable.	LC50 / 96h >100 mg/l (fish)	5h >100 mg/l (fish)		
12.4 Mobility in soil       No further relevant information available.         Additional ecological information:       General notes:         General notes:       Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous water         Do not allow product to reach ground water, water course or sewage system.         12.5 Results of PBT and vPvB assessment         PBT:       Not applicable.         vPvB:       Not applicable.	<i>12.2 Persistence and degradability</i> No further relevant information available.			
Additional ecological information:         General notes:       Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous water         Do not allow product to reach ground water, water course or sewage system.         12.5 Results of PBT and vPvB assessment         PBT:       Not applicable.         vPvB:       Not applicable.	12.3 Bioaccumulative potential	No further relevant information available.		
General notes:       Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous water         Do not allow product to reach ground water, water course or sewage system.         12.5 Results of PBT and vPvB assessment         PBT:       Not applicable.         vPvB:       Not applicable.	12.4 Mobility in soil	No further relevant information available.		
Whater mature class if (Cerman regulation) (Serial accession), originally mature class water         Do not allow product to reach ground water, water course or sewage system.         12.5 Results of PBT and vPvB assessment         PBT:       Not applicable.         vPvB:       Not applicable.	Additional ecological information	on:		
Do not allow product to reach ground water, water course or sewage system.         12.5 Results of PBT and vPvB assessment         PBT:       Not applicable.         vPvB:       Not applicable.	General notes:	Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for		
12.5 Results of PBT and vPvB assessmentPBT:Not applicable.vPvB:Not applicable.		water		
PBT:Not applicable.vPvB:Not applicable.		Do not allow product to reach ground water, water course or sewage system.		
<b><i>vPvB</i></b> : Not applicable.	12.5 Results of PBT and vPvB a	ssessment		
	PBT:	Not applicable.		
<b>12.6 Other adverse effects</b> No further relevant information available.	vPvB:	Not applicable.		
	12.6 Other adverse effects	No further relevant information available.		
(Contd. on pag		(Contd. on page 8)		



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#### Version number 1 Trade name: 3011 Osmo Polyx®-Oil Original (Contd. of page 7) **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. Solvent naphtha **Recommended cleansing agents: SECTION 14: Transport information** 14.1 UN-Number Void ADR, ADN, IMDG, IATA 14.2 UN proper shipping name ADR, ADN, IMDG, IATA Void 14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA Void Class 14.4 Packing group ADR, IMDG, IATA Void 14.5 Environmental hazards: No Marine pollutant: 14.6 Special precautions for user Not applicable. 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. UN "Model Regulation": \_

#### **SECTION 15: Regulatory information**

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

National regulations:	
GISBAU-Code	GISCODE: Ö60
VOC (EC)	< 500 g/l (VOC-max. = 500 g/l (2010 A/i))

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## Trade name: 3011 Osmo Polyx®-Oil Original

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

SECTION 16: Other information	
	present knowledge. However, this shall not constitute a guarantee for any specific produ legally valid contractual relationship.
Relevant phrases	H304 May be fatal if swallowed and enters airways.
	R65 Harmful: may cause lung damage if swallowed.
	R66 Repeated exposure may cause skin dryness or cracking.
Department issuing MSDS:	product safety department
Contact:	Hr. Dr. Starp
Abbreviations and acronyms:	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreeme concerning the International Carriage of Dangerous Goods by Road)
	IMDG: International Maritime Code for Dangerous Goods
	IATA: International Air Transport Association
	GHS: Globally Harmonized 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)
	VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volat organic compounds)
	VOC: Volatile Organic Compounds (USA, EU)
	LC50: Lethal concentration, 50 percent
	LD50: Lethal dose, 50 percent

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GB

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier 3032 Osmo Polyx Hardwax-Oil Original, clear satin Trade name: 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the Paint preparation Coating compound/ Surface coating/ paint 1.3 Details of the supplier of the safety data sheet Osmo Holz und Color GmbH & Co. KG Manufacturer/Supplier: Affhüppen Esch 12 D-48231 Warendorf Further information obtainable Product safety department from: Phone: +49 (0) 251 / 692 - 188 Fax: +49 (0) 251 / 692 - 462 e-mail: helmut.starp@osmo.de 1.4 Emergency telephone emergency phone no. Berlin (24h): +49 (0) 30 / 30686 790 advisory service in German number: and English

### SECTION 2: Hazards identification

Classification according to Regulation (EC) No 1272/2008	The product is not classified according to the CLP regulation.
Classification according to	
Directive 67/548/EEC or Directive	e
1999/45/EC	Not applicable.
Information concerning	
particular hazards for human and	1
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.
2.2 Label elements	
Labelling according to Regulation	n
(EC) No 1272/2008	Void
Hazard pictograms	Void
Signal word	Void
Hazard statements	Void
Precautionary statements	Although this product is not subject to identification regulations, we recommend that
	the safety suggestions are observed.
	(Contd. on page 2)

OSMO<sup>®</sup>

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 17.01.2014

Version number 15

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## Trade name: 3032 Osmo Polyx Hardwax-Oil Original, clear satin

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	P101 If medical advice is needed, have product container or label at hand.
	P102 Keep out of reach of children.
	P262 Do not get in eyes, on skin, or on clothing.
	P271 Use only outdoors or in a well-ventilated area.
	P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.
Additional information:	Observe the general safety regulations when handling chemicals.
	Always wear a dust mask when sanding.
	Contains 2-butanonoxime. May produce an allergic reaction.
	Safety data sheet available on request.
2.3 Other hazards	
Results of PBT and vPvB asse	essment
PBT:	Not applicable.
vPvB:	Not applicable.

#### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Description:	Mixture of substances listed below with nonhazardous additions.	
Dangerous components:		
CAS: 64742-48-9	aliphatic hydrocarbons, C10-C13	25-50%
Index number: 649-327-00-6	Xn R65	
Reg.nr.: 01-2119457273-39	R66	
	🚸 Asp. Tox. 1, H304	-
Additional information:	For the wording of the listed risk phrases refer to section 16.	

### **SECTION 4: 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.
	In case of unconsciousness place patient stably in side position for transportation.
After skin contact:	Immediately wash with water and soap and rinse thoroughly.
	If skin irritation continues, consult a doctor.
After eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing:	Do not induce vomiting; call for medical help immediately.
4.2 Most important symptoms an	nd l
effects, both acute and delayed	Dizziness
	Headache
	(Contd. on page 3)

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4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant
	foam.
5.2 Special hazards arising from	
the substance or mixture	Formation of toxic gases is possible during heating or in case of fire.
5.3 Advice for firefighters	
Protective equipment:	Mouth respiratory protective device.
Additional information	Cool endangered receptacles with water spray.
	Dispose of fire debris and contaminated fire fighting water in accordance with official
	regulations.

#### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and	
emergency procedures	Ensure adequate ventilation
	Keep away from ignition sources.
6.2 Environmental precautions:	Do not allow to enter sewers/ surface or ground water.
	Inform respective authorities in case of seepage into water course or sewage system.
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 7 for information on safe handling.
	See Section 8 for information on personal protection equipment.
	See Section 13 for disposal information.

### SECTION 7: Handling and storage

7.1 Precautions for safe handling	Keep away from heat and direct sunlight.	
	Use only in well ventilated areas.	
	Keep receptacles tightly sealed.	
	Prevent formation of aerosols.	
Information about fire - and		
explosion protection:	Keep ignition sources away - Do not smoke.	
		(Contd. on page 4)

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#### Trade name: 3032 Osmo Polyx Hardwax-Oil Original, clear satin (Contd. of page 3) 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 oxidizing and acidic materials. Further information about Store in cool, dry conditions in well sealed receptacles. storage conditions: Keep container tightly sealed. No further relevant information available. 7.3 Specific end use(s) **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: 64742-48-9 aliphatic hydrocarbons, C10-C13 TWA (8 H) Long-term value: 1.000 mg/m<sup>3</sup>, 150 ppm ppm Source: UK SIA Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls 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:** Not necessary if room is well-ventilated. Use suitable respiratory protective device only when aerosol or mist is formed. Short term filter device: Filter A/P2 **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 To avoid skin problems reduce the wearing of gloves to the required minimum. Material of gloves Nitrile rubber, NBR

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Penetration time of glove materia	(Contd. of page 4) <i>I</i> 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).
For the permanent contact of a	
maximum of 15 minutes gloves	
made of the following materials	
are suitable:	Nitrile rubber, NBR
Eye protection:	If risk of splashing:
	Safety glasses according to EN 166:2001 (e.g. densely closing frame glasses with side protection)
Body protection:	Protective work clothing

**SECTION 9: Physical and chemical properties** 

General Information	
Appearance:	
Form:	Viscous
Colour:	According to product specification
Odour:	Mild
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	180 °C
Flash point:	>63 °C (DIN EN ISO 2719)
Ignition temperature:	240 °C
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures as possible.
Explosion limits:	
Lower:	0.7 Vol %
Upper:	6.0 Vol %
Density at 20 °C:	0.88-0.95 g/cm <sup>3</sup> (DIN 51757)

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## Trade name: 3032 Osmo Polyx Hardwax-Oil Original, clear satin

		(Contd. of page 5)
Solubility in / Miscibility with	,	
water:	Not miscible or difficult to mix.	
Viscosity:		
Kinematic at 20 °C:	25-35 s (DIN 53211/4mm)	
Solvent content:		
VOC (EC)	< 500 g/l (VOC-max. = 500 g/l (2010 A/i))	
9.2 Other information	No further relevant information available.	

### SECTION 10: Stability and reactivity

10.1 Reactivity	
10.2 Chemical stability	
Thermal decomposition /	
conditions to be avoided:	No decomposition if used according to specifications.
10.3 Possibility of hazardous	
reactions	Reacts with fabric soaked in the product (e.g. cleaning wool).
10.4 Conditions to avoid	No further relevant information available.
10.5 Incompatible materials:	No further relevant information available.
10.6 Hazardous decomposition	
products:	Carbon monoxide and carbon dioxide
	Nitrogen oxides (NOx)
Additional information:	Warning:
	Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition)

#### \*

## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects Acute toxicity:

LD/LC50 values relevant for classification:         64742-48-9 aliphatic hydrocarbons, C10-C13		
Oral	LD50	> 5000 mg/kg (rat) (OECD 401)
Dermal	LD50	> 5000 mg/kg (rat) (OECD 402)
Inhalative	LC50 / 4h	> 5 mg/l (rat) (OECD 403)
96-29-7 2-butanonoxime		
Oral	LD50	3700 mg/kg (rat)
Dermal	LD50	200-2000 mg/kg (rat)
Inhalative	LC50 / 4h	>10.5 mg/l (rat)
	l	(Contd. on pa



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## Trade name: 3032 Osmo Polyx Hardwax-Oil Original, clear satin

	(Contd. of page 6)
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:	Sensitizing effect by skin contact is possible by prolonged exposure.
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.
Sensitisation	Contains 2-butanonoxime. May produce an allergic reaction.

## SECTION 12: Ecological information

Aquatic toxicity:	
64742-48-9 aliphatic hydrocarb	ons, C10-C13
EC50 / 48h > 1000 mg/l (daphnia	a) (OECD 202)
EC50/ 72h > 1000 mg/l (algae) (	OECD 201)
LC50 / 96h > 1000 mg/l (fish) (C	ECD 203)
96-29-7 2-butanonoxime	
EC50 / 48h 201 mg/l (daphnia)	
IC50 / 72h 11.8 mg/l (algae)	
LC50 / 96h >100 mg/l (fish)	
12.2 Persistence and degradabili	ty 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	n:
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.
12.5 Results of PBT and vPvB as	sessment
PBT:	Not applicable.
vPvB:	Not applicable.
12.6 Other adverse effects	No further relevant information available.
	(Contd. on page 8)



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## Trade name: 3032 Osmo Polyx Hardwax-Oil Original, clear satin

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#### **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: Disposal must be made according to official regulations. **Recommendation:** Recommended cleansing agents: Solvent naphtha

# **SECTION 14: Transport information**

14.1 UN-Number	
ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name	
ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	Void
14.4 Packing group	
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II	l of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	This product is not hazardous according to Dangerous Goods Regulation
UN "Model Regulation":	UN1263; FARBE; 3; III

#### **SECTION 15: Regulatory information**

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

National regulations: GISCODE: Ö60 GISBAU-Code

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VOC (EC) 15.2 Chemical safety assessment	<pre>(Contd. of page 8 &lt; 500 g/l (VOC-max. = 500 g/l (2010 A/i)) t: A Chemical Safety Assessment has not been carried out.</pre>
SECTION 16: Other inform	mation
	present knowledge. However, this shall not constitute a guarantee for any specific produc legally valid contractual relationship.
Relevant phrases	H304 May be fatal if swallowed and enters airways.
	R65 Harmful: may cause lung damage if swallowed.
	R66 Repeated exposure may cause skin dryness or cracking.
Department issuing MSDS:	product safety department
Contact:	Hr. Dr. Starp
Abbreviations and acronyms:	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreemen concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods
	IATA: International Air Transport Association GHS: Globally Harmonized 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
۵	LD50: Lethal dose, 50 percent
* Data compared to the previous	
version altered.	

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1.1 Product identifier	
Trade name:	<b>3062</b> Osmo Polyx®-Oil Original, clear matt
1.2 Relevant identified uses o	f the
substance or mixture and use	
advised against	No further relevant information available.
Application of the substance	/ the
preparation	Paint
	Coating compound/ Surface coating/ paint
1.3 Details of the supplier of t	the safety data sheet
Manufacturer/Supplier:	Osmo Holz und Color GmbH & Co. KG
	Affhüppen Esch 12
	D-48231 Warendorf
Further information obtainal	ble
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 Germ
	and English
SECTION 2: Hazards id	lentification
2.1 Classification of the subst	ance or mixture
Classification according to	
Regulation (EC) No 1272/200	78 The product is not classified according to the CLP regulation.

Classification according to	
Directive 67/548/EEC or Direc	tive
1999/45/EC	Not applicable.
Information concerning	
particular hazards for human	and
environment: Classification system:	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. The classification is according to the latest editions of the EU-lists and extended by
	company and literature data.
2.2 Label elements	
Labelling according to Regula	tion
(EC) No 1272/2008	Void
Hazard pictograms	Void
Signal word	Void
Hazard statements	Void
Precautionary statements	Although this product is not subject to identification regulations, we recommend that the safety suggestions are observed.

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	(Contd. of page 1)
	P101 If medical advice is needed, have product container or label at hand.
	P102 Keep out of reach of children.
	P262 Do not get in eyes, on skin, or on clothing.
	P271 Use only outdoors or in a well-ventilated area.
	P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.
Additional information:	Observe the general safety regulations when handling chemicals.
-	Always wear a dust mask when sanding.
	Contains 2-butanonoxime. May produce an allergic reaction.
	Safety data sheet available on request.
2.3 Other hazards	
Results of PBT and vPvB ass	essment
PBT:	Not applicable.
vPvB:	Not applicable.

#### SECTION 3: Composition/information on ingredients

3.2	Mixtures
-----	----------

Description:	Mixture of substances listed below with nonhazardous additions.	
Dangerous components:		
CAS: 64742-48-9	aliphatic hydrocarbons, C10-C13	25-50%
Index number: 649-327-00-6	🗙 Xn R65	
Reg.nr.: 01-2119457273-39	R66	
	🐼 Asp. Tox. 1, H304	-
Additional information:	For the wording of the listed risk phrases refer to section 16.	

### **SECTION 4: First aid measures**

4.1 Description of first aid measur	res
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.
	In case of unconsciousness place patient stably in side position for transportation.
After skin contact:	Immediately wash with water and soap and rinse thoroughly.
	If skin irritation continues, consult a doctor.
After eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing:	Do not induce vomiting; call for medical help immediately.
4.2 Most important symptoms and	!
effects, both acute and delayed	Dizziness
	Headache
	(Contd. on page 3)

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4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant
	foam.
For safety reasons unsuitable	
extinguishing agents:	Water with full jet
5.2 Special hazards arising from	
the substance or mixture	Formation of toxic gases is possible during heating or in case of fire.
5.3 Advice for firefighters	
Protective equipment:	Mouth respiratory protective device.
Additional information	Cool endangered receptacles with water spray.
	Dispose of fire debris and contaminated fire fighting water in accordance with official
	regulations.

### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and	
emergency procedures	Ensure adequate ventilation
	Keep away from ignition sources.
6.2 Environmental precautions:	Do not allow to enter sewers/ surface or ground water.
	Inform respective authorities in case of seepage into water course or sewage system.
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 7 for information on safe handling.
	See Section 8 for information on personal protection equipment.
	See Section 13 for disposal information.

### SECTION 7: Handling and storage

7.1 Precautions for safe handling	Keep away from heat and direct sunlight.	
	Use only in well ventilated areas.	
	Keep receptacles tightly sealed.	
	Prevent formation of aerosols.	
Information about fire - and		
explosion protection:	Keep ignition sources away - Do not smoke.	
		(Contd. on page 4)



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#### Trade name: 3062 Osmo Polyx®-Oil Original, clear matt (Contd. of page 3) 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 oxidizing and acidic materials. Further information about Store in cool, dry conditions in well sealed receptacles. storage conditions: Keep container tightly sealed. No further relevant information available. 7.3 Specific end use(s) **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: 64742-48-9 aliphatic hydrocarbons, C10-C13 TWA (8 H) Long-term value: 1.000 mg/m<sup>3</sup>, 150 ppm ppm Source: UK SIA Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls 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:** Not necessary if room is well-ventilated. Use suitable respiratory protective device only when aerosol or mist is formed. Short term filter device: Filter A/P2 **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 To avoid skin problems reduce the wearing of gloves to the required minimum. Material of gloves Nitrile rubber, NBR (Contd. on page 5)

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	(Contd. of page 4)
Penetration time of glove materia	<i>l</i> 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).
For the permanent contact of a	
maximum of 15 minutes gloves	
made of the following materials	
are suitable:	Nitrile rubber, NBR
Eye protection:	If risk of splashing:
	Safety glasses according to EN 166:2001 (e.g. densely closing frame glasses with side
	protection)
Body protection:	Protective work clothing
. –	

**SECTION 9: Physical and chemical properties** 

9.1 Information on basic physica General Information	
Appearance:	
Form:	Viscous
Colour:	Yellowish
Odour:	Mild
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 180 °C
Flash point:	> 63 °C (DIN EN ISO 2719)
Ignition temperature:	240 °C
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures ar possible.
Explosion limits:	
Lower:	0.7 Vol %
Upper:	6.0 Vol %
Density at 20 °C:	0.92-0.95 g/cm <sup>3</sup>

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## Trade name: 3062 Osmo Polyx®-Oil Original, clear matt

Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Viscosity:	
Dynamic at 20 °C:	150-180 mPas
Kinematic at 20 °C:	25-35 s (DIN 53211/4mm)
Solvent content:	
VOC (EC)	< 500 g/l (VOC-max. = 500 g/l (2010 A/i))
9.2 Other information	No further relevant information available.
SECTION 10: Stability and 10.1 Reactivity 10.2 Chemical stability	d reactivity
10.1 Reactivity	d reactivity
10.1 Reactivity 10.2 Chemical stability Thermal decomposition /	
10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be avoided:	<i>d reactivity</i> No decomposition if used according to specifications.
10.1 Reactivity 10.2 Chemical stability Thermal decomposition /	
10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be avoided: 10.3 Possibility of hazardous	No decomposition if used according to specifications.
10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be avoided: 10.3 Possibility of hazardous reactions	No decomposition if used according to specifications. Reacts with fabric soaked in the product (e.g. cleaning wool).
10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be avoided: 10.3 Possibility of hazardous reactions 10.4 Conditions to avoid	No decomposition if used according to specifications. Reacts with fabric soaked in the product (e.g. cleaning wool). No further relevant information available.
10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be avoided: 10.3 Possibility of hazardous reactions 10.4 Conditions to avoid 10.5 Incompatible materials:	No decomposition if used according to specifications. Reacts with fabric soaked in the product (e.g. cleaning wool). No further relevant information available.
10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be avoided: 10.3 Possibility of hazardous reactions 10.4 Conditions to avoid 10.5 Incompatible materials: 10.6 Hazardous decomposition	No decomposition if used according to specifications. Reacts with fabric soaked in the product (e.g. cleaning wool). No further relevant information available. No further relevant information available.
10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be avoided: 10.3 Possibility of hazardous reactions 10.4 Conditions to avoid 10.5 Incompatible materials: 10.6 Hazardous decomposition	No decomposition if used according to specifications. Reacts with fabric soaked in the product (e.g. cleaning wool). No further relevant information available. No further relevant information available. Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)
10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be avoided: 10.3 Possibility of hazardous reactions 10.4 Conditions to avoid 10.5 Incompatible materials: 10.6 Hazardous decomposition products:	No decomposition if used according to specifications. Reacts with fabric soaked in the product (e.g. cleaning wool). No further relevant information available. No further relevant information available. Carbon monoxide and carbon dioxide

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:		
64742-48-9 aliphatic hydrocarbons, C10-C13		
Oral	LD50	> 5000 mg/kg (rat) (OECD 401)
Dermal	LD50	> 5000 mg/kg (rat) (OECD 402)
Inhalative	LC50 / 4h	> 5 mg/l (rat) (OECD 403)
96-29-7 2-butanonoxime		
Oral	LD50	3700 mg/kg (rat)
Dermal	LD50	200-2000 mg/kg (rat)
	•	(Contd. on page



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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:	Sensitizing effect by skin contact is possible by prolonged exposure.
Additional toxicological	
information:	The product is not subject to classification according to the calculation method of t
	General EU Classification Guidelines for Preparations as issued in the latest version.
	When used and handled according to specifications, the product does not have a
	harmful effects to our experience and the information provided to us.
Sensitisation	Contains 2-butanonoxime. May produce an allergic reaction.

Aquatic toxicity: 64742-48-9 aliphatic hydrocarbons, C10-C13 EC50 / 48h > 1000 mg/l (daphnia) (OECD 202) EC50/72h > 1000 mg/l (algae) (OECD 201) LC50 / 96h > 1000 mg/l (fish) (OECD 203) 96-29-7 2-butanonoxime EC50 / 48h 201 mg/l (daphnia) IC50 / 72h 11.8 mg/l (algae) LC50 / 96h >100 mg/l (fish) 12.2 Persistence and degradability No further relevant information available. 12.3 Bioaccumulative potential No further relevant information available. No further relevant information available. 12.4 Mobility in soil Additional 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. 12.5 Results of PBT and vPvB assessment **PBT**: Not applicable. vPvB: Not applicable. No further relevant information available. 12.6 Other adverse effects

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## Trade name: 3062 Osmo Polyx®-Oil Original, clear matt

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#### **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:** Recommended cleansing agents: Solvent naphtha

Disposal must be made according to official regulations.

SECTION 14: Transport information			
14.1 UN-Number			
ADR, ADN, IMDG, IATA	Void		
14.2 UN proper shipping name			
ADR, ADN, IMDG, IATA	Void		
14.3 Transport hazard class(es)			
ADR, ADN, IMDG, IATA			
Class	Void		
14.4 Packing group			
ADR, IMDG, IATA	Void		
14.5 Environmental hazards:			
Marine pollutant:	No		
14.6 Special precautions for user	Not applicable.		
14.7 Transport in bulk according to Annex II of			
MARPOL73/78 and the IBC Code	<i>MARPOL73/78 and the IBC Code</i> Not applicable.		
UN "Model Regulation":	-		

#### **SECTION 15: Regulatory information**

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

National regulations:	
GISBAU-Code	GISCODE: Ö60
VOC (EC)	< 500 g/l (VOC-max. = 500 g/l (2010 A/i))

(Contd. on page 9)



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(Contd. of page 8)

## Trade name: 3062 Osmo Polyx®-Oil Original, clear matt

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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific produc	
features and shall not establish a	legally valid contractual relationship.
Relevant phrases	H304 May be fatal if swallowed and enters airways.
	R65 Harmful: may cause lung damage if swallowed.
	R66 Repeated exposure may cause skin dryness or cracking.
Department issuing MSDS:	product safety department
Contact:	Hr. Dr. Starp
Abbreviations and acronyms:	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de (Regulations Concerning the International Transport of Dangerous Goods by Rail)
	ICAO: International Civil Aviation Organization
	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreeme
	concerning the International Carriage of Dangerous Goods by Road)
	IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association
	GHS: Globally Harmonized 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

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# Safety data sheet according to 1907/2006/EC, Article 31



Printing date 17.01.2014

Version number 4

Revision: 17.01.2014

1.1 Product identifier	
Trade name:	3065 Osmo Polyx Hardwax-Oil Original, semi-matt
1.2 Relevant identified uses of the substance or mixture and uses	he
advised against	No further relevant information available.
Application of the substance / th	he
preparation	Paint
	Coating compound/ Surface coating/ paint
1.3 Details of the supplier of the	e 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 Gerr
	and English

#### SECTION 2: Hazards identification

Regulation (EC) No 1272/2008	The product is not classified according to the CLP regulation.
Classification according to	
Directive 67/548/EEC or Directiv	e
1999/45/EC	Not applicable.
Information concerning	
particular hazards for human an	d
environment:	The product does not have to be labelled due to the calculation procedure of th
	"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 b
	company and literature data.
2.2 Label elements	
Labelling according to Regulatio	n
(EC) No 1272/2008	Void
Hazard pictograms	Void
Signal word	Void
Hazard statements	Void
Precautionary statements	Although this product is not subject to identification regulations, we recommend that
	the safety suggestions are observed.
	(Contd. on page 2



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## Trade name: 3065 Osmo Polyx Hardwax-Oil Original, semi-matt

	(Contd. of page 1)
	P102 Keep out of reach of children.
	P101 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.
	P501 Dispose of contents/container in accordance with local/regional/national/
	international regulations.
Additional information:	Observe the general safety regulations when handling chemicals.
	Always wear a dust mask when sanding.
	Contains 2-butanonoxime. May produce an allergic reaction.
	Safety data sheet available on request.
2.3 Other hazards	
Results of PBT and vPvB ass	essment
PBT:	Not applicable.
vPvB:	Not applicable.

#### SECTION 3: Composition/information on ingredients

3.2	Mixtures
-----	----------

Description:	Mixture of substances listed below with nonhazardous additions.	
Dangerous components:		
CAS: 64742-48-9	aliphatic hydrocarbons, C10-C13	25-50%
Index number: 649-327-00-6	🗙 Xn R65	
Reg.nr.: 01-2119457273-39	R66	
	🐼 Asp. Tox. 1, H304	
Additional information:	For the wording of the listed risk phrases refer to section 16.	,

### **SECTION 4: First aid measures**

4.1 Description of first aid measu	ires
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.
	In case of unconsciousness place patient stably in side position for transportation.
After skin contact:	Immediately wash with water and soap and rinse thoroughly.
	If skin irritation continues, consult a doctor.
After eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing:	Do not induce vomiting; call for medical help immediately.
4.2 Most important symptoms and	d
effects, both acute and delayed	Dizziness
	Headache
	(Contd. on page 3)

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Safety data sheet

according to 1907/2006/EC, Article 31



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(Contd. of page 2)

## Trade name: 3065 Osmo Polyx Hardwax-Oil Original, semi-matt

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant
	foam.
For safety reasons unsuitable	
extinguishing agents:	Water with full jet
5.2 Special hazards arising from	
the substance or mixture	Formation of toxic gases is possible during heating or in case of fire.
5.3 Advice for firefighters	
Protective equipment:	Mouth respiratory protective device.
Additional information	Cool endangered receptacles with water spray.
	Dispose of fire debris and contaminated fire fighting water in accordance with official
	regulations.

### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and	
emergency procedures	Ensure adequate ventilation
	Keep away from ignition sources.
6.2 Environmental precautions:	Do not allow to enter sewers/ surface or ground water.
	Inform respective authorities in case of seepage into water course or sewage system.
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 7 for information on safe handling.
	See Section 8 for information on personal protection equipment.
	See Section 13 for disposal information.

### SECTION 7: Handling and storage

7.1 Precautions for safe handlin	<b><i>g</i></b> Keep away from heat and direct sunlight.	
	Use only in well ventilated areas.	
	Keep receptacles tightly sealed.	
	Prevent formation of aerosols.	
Information about fire - and		
explosion protection:	Keep ignition sources away - Do not smoke.	
		(Contd. on page 4)



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#### Trade name: 3065 Osmo Polyx Hardwax-Oil Original, semi-matt (Contd. of page 3) 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 oxidizing and acidic materials. Further information about Store in cool, dry conditions in well sealed receptacles. storage conditions: Keep container tightly sealed. No further relevant information available. 7.3 Specific end use(s) **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: 64742-48-9 aliphatic hydrocarbons, C10-C13 TWA (8 H) Long-term value: 1.000 mg/m<sup>3</sup>, 150 ppm ppm Source: UK SIA Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls 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:** Not necessary if room is well-ventilated. Use suitable respiratory protective device only when aerosol or mist is formed. Short term filter device: Filter A/P2 **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 To avoid skin problems reduce the wearing of gloves to the required minimum. Material of gloves Nitrile rubber, NBR

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## Trade name: 3065 Osmo Polyx Hardwax-Oil Original, semi-matt

Penetration time of glove material	(Contd. of page 4) 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).
For the permanent contact of a	
maximum of 15 minutes gloves	
made of the following materials	
are suitable:	Nitrile rubber, NBR
Eye protection:	If risk of splashing:
	Safety glasses according to EN 166:2001 (e.g. densely closing frame glasses with side protection)
Body protection:	Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical	l and chemical properties
General Information	
Appearance:	
Form:	Viscous
Colour:	According to product specification
Odour:	Mild
Change in condition	
Melting point/Melting range:	Undetermined.
<b>Boiling point/Boiling range:</b>	180 °C
Flash point:	>61 °C (DIN EN ISO 2719)
Ignition temperature:	240 °C
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures a possible.
Explosion limits:	
Lower:	0.7 Vol %
Upper:	6.0 Vol %
Density at 20 °C:	0.915-0.925 g/cm <sup>3</sup> (DIN 51757)



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## Trade name: 3065 Osmo Polyx Hardwax-Oil Original, semi-matt

	(Contd. of page 5)
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Viscosity:	
Dynamic at 20 °C:	115 -135 mPas
Kinematic at 20 °C:	> 30 s (ISO 2431/3mm)
Solvent content:	
VOC (EC)	< 500 g/l (VOC-max. = 500 g/l (2010 A/i))
9.2 Other information	No further relevant information available.
10.1 Reactivity	
SECTION 10: Stability and	1
10 1 Reactivity	
10.2 Chemical stability	
Thermal decomposition /	
conditions to be avoided:	No decomposition if used according to specifications.
10.3 Possibility of hazardous	
reactions	Reacts with fabric soaked in the product (e.g. cleaning wool).
10.4 Conditions to avoid	No further relevant information available.
10.5 Incompatible materials:	No further relevant information available.
10.6 Hazardous decomposition	
products:	Formation of toxic gases is possible during heating or in case of fire.
•	Carbon monoxide and carbon dioxide
	Nitrogen oxides (NOx)
Additional information:	
	Warning:
	Wash out any used cloth impregnated with this product immediately after use or stor
	in an airtight container (danger of self-ignition)

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity:

LD/LC50	values relev	vant for classification:
64742-48-	9 aliphatic	hydrocarbons, C10-C13
Oral	LD50	> 5000 mg/kg (rat) (OECD 401)
Dermal	LD50	> 5000 mg/kg (rat) (OECD 402)
Inhalative	LC50 / 4h	> 5 mg/l (rat) (OECD 403)
96-29-7 2	-butanonox	ime
Oral	LD50	3700 mg/kg (rat)
	1	(Contd. on page



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## Trade name: 3065 Osmo Polyx Hardwax-Oil Original, semi-matt

Dermal	LD50	(Contd. of page 6 200-2000 mg/kg (rat)
		>10.5 mg/l (rat)
-	rritant effec	
on the ski	n:	At long or repeated contact with skin it may cause dermatitis due to the degreasir
		effect of the solvent.
on the eye Sensitizati		Irritating effect.
-	on: l toxicologi	Sensitizing effect by skin contact is possible by prolonged exposure.
informatic	-	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 an harmful effects to our experience and the information provided to us.
SECTIO	DN 12: Ec	ological information
12.1 Toxic	city	
Aquatic to	xicity:	
64742-48-	9 aliphatic	hydrocarbons, C10-C13
EC50 / 48	h > 1000 n	ng/l (daphnia) (OECD 202)
EC50/ 72h	n  > 1000 n	ng/l (algae) (OECD 201)
I C 50 / 96	h  > 1000 n	ng/l (fish) (OECD 203)
LC307 70	_	ime
96-29-7 2-	butanono	
96-29-7 2-	butanonox h 201 mg/l	(daphnia)
<b>96-29-7 2</b> -EC50 / 48	h 201 mg/l	
<b>96-29-7 2</b> - EC50 / 48 IC50 / 72h	h 201 mg/l n 11.8 mg/	l (algae)
<b>96-29-7 2</b> - EC50 / 48 IC50 / 72h LC50 / 96	h 201 mg/l n 11.8 mg/ h >100 mg	l (algae) /l (fish)
<b>96-29-7</b> 2- EC50 / 48 IC50 / 72h LC50 / 96 <i>12.2 Persi</i>	h 201 mg/l n 11.8 mg/ h >100 mg	l (algae) /l (fish) <i>degradability</i> No further relevant information available.
<b>96-29-7</b> 2- EC50 / 48 IC50 / 72h LC50 / 96 <i>12.2 Persi</i>	h 201 mg/l h 11.8 mg/ h >100 mg stence and ccumulative	l (algae) /l (fish) <i>degradability</i> No further relevant information available.
96-29-7 2- EC50 / 48 IC50 / 72h LC50 / 96 <i>12.2 Persi</i> <i>12.3 Bioad</i> <i>12.4 Mobi</i>	h 201 mg/l n 11.8 mg/ h >100 mg stence and ccumulative lity in soil	l (algae) /l (fish) degradability No further relevant information available. e potential No further relevant information available.
96-29-7 2- EC50 / 48 IC50 / 72h LC50 / 96 <i>12.2 Persi</i> <i>12.3 Bioad</i> <i>12.4 Mobi</i>	h 201 mg/l n 11.8 mg/ h >100 mg stence and ccumulative lity in soil l ecological	I (algae)         /I (fish)         degradability         No further relevant information available.         potential         No further relevant information available.         No further relevant information available.         information:
96-29-7 2- EC50 / 48 IC50 / 72h LC50 / 96 <i>12.2 Persi</i> <i>12.3 Bioad</i> <i>12.4 Mobi</i> <i>Additional</i>	h 201 mg/l n 11.8 mg/ h >100 mg stence and ccumulative lity in soil l ecological	<pre>l (algae) /l (fish) /degradability No further relevant information available. // (fish) //</pre>
96-29-7 2- EC50 / 48 IC50 / 72h LC50 / 96 <i>12.2 Persi</i> <i>12.3 Bioad</i> <i>12.4 Mobi</i> <i>Additional</i> <i>General</i> n	h 201 mg/l n 11.8 mg/ h >100 mg stence and ccumulative lity in soil l ecologication	<ul> <li>I (algae)</li> <li>/I (fish)</li> <li><i>degradability</i> No further relevant information available.</li> <li><i>potential</i> No further relevant information available. No further relevant information available.</li> <li><i>information:</i></li> <li>Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous f water</li> <li>Do not allow product to reach ground water, water course or sewage system.</li> </ul>
96-29-7 2- EC50 / 48 IC50 / 72h LC50 / 96 <i>12.2 Persi</i> <i>12.3 Bioad</i> <i>12.4 Mobi</i> <i>Additional</i> <i>General n</i>	h 201 mg/l n 11.8 mg/ h >100 mg stence and ccumulative lity in soil l ecologication	<ul> <li>I (algae)</li> <li>/I (fish)</li> <li><i>degradability</i> No further relevant information available.</li> <li><i>potential</i> No further relevant information available. No further relevant information available.</li> <li><i>information:</i></li> <li>Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous f water</li> <li>Do not allow product to reach ground water, water course or sewage system.</li> <li><i>und vPvB assessment</i></li> </ul>
96-29-7 2- EC50 / 48 IC50 / 72h LC50 / 96 <i>12.2 Persi</i> <i>12.3 Bioad</i> <i>12.4 Mobi</i> <i>Additional</i> <i>General n</i> <i>12.5 Resul</i> <i>PBT</i> :	h 201 mg/l n 11.8 mg/ h >100 mg stence and ccumulative lity in soil l ecologication	<pre>l (algae) /l (fish) /degradability No further relevant information available. // (fish) //</pre>
96-29-7 2- EC50 / 48 IC50 / 72h LC50 / 96 <i>12.2 Persi</i> <i>12.3 Bioad</i> <i>12.4 Mobi</i> <i>Additional</i> <i>General n</i> <i>12.5 Resul</i> <i>PBT:</i> <i>vPvB:</i>	h 201 mg/l n 11.8 mg/ h >100 mg stence and ccumulative lity in soil l ecologication	<ul> <li>I (algae)</li> <li>/I (fish)</li> <li>degradability No further relevant information available.</li> <li>a potential No further relevant information available.</li> <li>No further relevant information available.</li> <li>I information:</li> <li>Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water</li> <li>Do not allow product to reach ground water, water course or sewage system.</li> <li>and vPvB assessment</li> <li>Not applicable.</li> <li>Not applicable.</li> </ul>



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#### Trade name: 3065 Osmo Polyx Hardwax-Oil Original, semi-matt (Contd. of page 7) **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. 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 Void ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: No Not applicable. 14.6 Special precautions for user 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. UN "Model Regulation":

### SECTION 15: Regulatory information

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

National regulations:	
GISBAU-Code	GISCODE: Ö60
VOC (EC)	< 500 g/l (VOC-max. = 500 g/l (2010 A/i))
15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

(Contd. on page 9)

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	present knowledge. However, this shall not constitute a guarantee for any specific proclegally valid contractual relationship.	
Relevant phrases	H304 May be fatal if swallowed and enters airways.	
	R65 Harmful: may cause lung damage if swallowed.	
	R66 Repeated exposure may cause skin dryness or cracking.	
Department issuing MSDS:	product safety department	
Contact:	Hr. Dr. Starp	
Abbreviations and acronyms:	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreer concerning the International Carriage of Dangerous Goods by Road)	
	IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association	
	GHS: Globally Harmonized 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	