

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.12.2023

Version number 7.1 (replaces version 7.0)

Revision: 22.12.2023

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

#### 1.1 Product identifier

**Trade name:** Polyx® Oil Effect

**Article number:** 3091

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

No further relevant information available.

#### Application of the substance / the mixture

Priming  
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  
Germany

#### Further information obtainable from:

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

Flam. Liq. 3 H226 Flammable liquid and vapour.

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

#### 2.2 Label elements

##### Hazard pictograms



GHS02

##### Signal word

Warning

##### Hazard statements

H226 Flammable liquid and vapour.

##### 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. - No smoking.  
P262 Do not get in eyes, on skin, or on clothing.  
P271 Use only outdoors or in a well-ventilated area.

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P403+P235 Store in a well-ventilated place. Keep cool.  
 P501 Dispose of contents/container in accordance with national regulations.

**Additional information:** EUH210 Safety data sheet available on request.

**2.3 Other hazards** Warning:  
 Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition)  
 Always wear a dust mask when sanding.  
 Observe the general safety regulations when handling chemicals.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.  
**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

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

#### Dangerous components:

CAS: 64742-48-9 EC number: 918-481-9	aliphatic hydrocarbons, C10-C13  Asp. Tox. 1, H304, EUH066	30–50%
CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-002-00-1	aluminium powder (stabilised)  Flam. Sol. 1, H228	≤2.5%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol  Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336	<2.5%

**SVHC** Not applicable.

**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.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.  
 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 or rash occurs: Get medical advice/attention.

**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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

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Do NOT induce vomiting.

**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** If swallowed or in case of vomiting, danger of entering the lungs.

### 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.  
Carbon monoxide (CO)  
carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

##### Protective equipment:

Mouth respiratory protective device.  
Do not inhale explosion gases or combustion gases.  
Wear self-contained respiratory protective device.  
General measures for chemical fires.

##### 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  
Keep away from ignition sources.  
Wear protective clothing.

##### For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training.

##### For emergency responders

Wear protective equipment. Keep unprotected persons away.

#### 6.2 Environmental precautions:

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

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**6.3 Methods and material for containment and cleaning up:** Do not allow to enter sewers/ surface or ground water.  
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).  
 Dispose of the material collected according to regulations.  
 Dispose contaminated material as waste according to section 13.  
 Ensure adequate ventilation.

**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**  
 Use only in well ventilated areas.  
 Keep away from heat and direct sunlight.  
 Keep receptacles tightly sealed.  
 Prevent formation of aerosols.  
 Open and handle receptacle with care.

**General protective and hygienic measures:**  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.  
 Do not eat, drink, smoke or sniff while working.  
 Do not carry product impregnated cleaning cloths in trouser pockets.

**Information about fire - and explosion protection:**  
 Keep respiratory protective device available.  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Handling:** Even a small sip can lead to life-threatening damage to the lungs. Keep rags filled with this liquid out of the reach of children.

### 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:** Not required.

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

**Storage class:** 3

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**7.3 Specific end use(s)**

No further relevant information available.

### SECTION 8: Exposure controls/personal protection

**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****64742-48-9 aliphatic hydrocarbons, C10-C13**

TWA	Short-term value: 1200 mg/m <sup>3</sup>
	CEFIC-HSPA

**DNELs****7429-90-5 aluminium powder (stabilised)**

Oral	DNEL Verbraucher (Langzeit - systemische Effekte)	3.95 mg/kg KGew. /Tag
Inhalative	Worker (chronic - Systemic health effec)	3.72 mg/m <sup>3</sup>
	DNEL Arbeitnehmer (Langzeit - lokale Effekte)	3.72 mg/m <sup>3</sup>

**67-63-0 propan-2-ol**

Oral	DNEL Verbraucher (Langzeit - systemische Effekte)	26 mg/kg KGew. /Tag
Inhalative	Worker (chronic - Systemic health effec)	500 mg/m <sup>3</sup>
	DNEL Verbraucher (Lanzzeit - systemische Effekte)	89 mg/m <sup>3</sup>

**PNECs****7429-90-5 aluminium powder (stabilised)**

PNEC fresh water	0.0749 mg/l
PNEC sewage treatment plant	20 mg/l

**67-63-0 propan-2-ol**

PNEC sea water	140.9 mg/l
PNEC fresh water	140.9 mg/l
PNEC sediment (fresh water)	552 mg/kg
PNEC sediment (sea water)	552 mg/kg
PNEC soil	28 mg/kg

**Additional information:**

The lists valid during the making were used as basis.

**8.2 Exposure controls****Appropriate engineering controls**

Ensure good ventilation/exhaustion at the workplace.

**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

The usual precautionary measures are to be adhered to when handling chemicals.

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**Respiratory protection:**

Do not eat, drink, smoke or sniff while working.  
 Do not carry product impregnated cleaning cloths in trouser pockets.  
 See Section 7 for information on safe handling.  
 Not necessary if room is well-ventilated.  
 Use suitable respiratory protective device only when aerosol or mist is formed.  
 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.

**Hand protection**

Half mask with round thread connection EN 148-1 (screw-on filter) and combination filter A1 - P2 according to German DIN EN 14387.  
 Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.  
 To avoid skin problems reduce the wearing of gloves to the required minimum.  
 Protective gloves

**Material of 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  
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.  
 As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**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  
 Recommended thickness of the material:  $\geq 0.4$  mm  
 For the mixture 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/face protection**

Tightly sealed goggles

**Body protection:**

Protective work clothing

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### SECTION 9: Physical and chemical properties

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

##### General Information

<b>Physical state</b>	Fluid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Mild
<b>Odour threshold:</b>	Not determined.
<b>Melting point/freezing point:</b>	Undetermined.
<b>Boiling point or initial boiling point and boiling range</b>	> 180 °C
<b>Flammability</b>	The mixture is capable of catching fire or being set on fire.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	0.6 Vol %
<b>Upper:</b>	7.0 Vol %
<b>Flash point:</b>	+26 °C (DIN EN ISO 2719)
<b>Auto-ignition temperature:</b>	240 °C
<b>Decomposition temperature:</b>	Not determined.
<b>pH</b>	Mixture is non-polar/aprotic.
<b>Viscosity:</b>	
<b>Kinematic viscosity at 20 °C</b>	23 s (DIN EN ISO 2431/4mm) >21 mm <sup>2</sup> /s (40°C) (calculated)
<b>Dynamic:</b>	Not determined.
<b>Solubility water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure at 20 °C:</b>	1 hPa
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	0.91 - 0.92 g/cm <sup>3</sup> (DIN 51757)
<b>Relative density</b>	Not determined.

#### 9.2 Other information

##### Appearance:

**Form:** Viscous

##### Important information on protection of health and environment, and on safety.

**Ignition temperature:** Product is not selfigniting.

**Explosive properties:** Not determined.

**Solvent separation test:** <3% ADR/RID

**Solvent content:**

**VOC (EC)** < 500 g/l (VOC-max. Cat A/i (2010) = 500 g/l)

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<b>Change in condition</b>	
<b>Evaporation rate</b>	Not determined.
<b>Information with regard to physical hazard classes</b>	
<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Flammable liquid and vapour.
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

**SECTION 10: Stability and reactivity**

- 10.1 Reactivity** No further relevant information available.
- 10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions** Reacts with fabric soaked in the product (e.g. cleaning wool).
- 10.4 Conditions to avoid** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- 10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide  
 Nitrogen oxides (NOx)  
 Formation of toxic gases is possible during heating or in case of fire.

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### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

**LD/LC50 values relevant for classification:**
**64742-48-9 aliphatic hydrocarbons, C10-C13**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)
Inhalative	LC50 / 4h	>5 mg/l (rat)

**67-63-0 propan-2-ol**

Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50 / 4h	30 mg/l (rat)

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**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.

**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.

**Subacute to chronic toxicity:** Based on available data, the classification criteria are not met.

**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.

#### 11.2 Information on other hazards

**Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

#### 12.1 Toxicity

**Aquatic toxicity:**
**64742-48-9 aliphatic hydrocarbons, C10-C13**

EC50 / 48h	>1,000 mg/l (Daphnia magna)
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IC50 / 72h	>1,000 mg/l (algae)
LC50 / 96h	>1,000 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.

**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects****Additional ecological information:****General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water**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.  
Disposal must be made according to official regulations.**European waste catalogue**

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

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agents:**Solvent naphtha  
Osmo Brush Cleaner and Thinner**SECTION 14: Transport information****14.1 UN number or ID number  
ADR, IMDG, IATA**

UN1263

**14.2 UN proper shipping name  
ADR  
IMDG, IATA**1263 PAINT  
PAINT

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**14.3 Transport hazard class(es)****ADR**

**Class** 3 (F1) Flammable liquids.  
**Label** 3

**IMDG, IATA**

**Class** 3 Flammable liquids.  
**Label** 3

**14.4 Packing group****ADR, IMDG, IATA** III**14.5 Environmental hazards:****Marine pollutant:** No**14.6 Special precautions for user**

Warning: Flammable liquids.

**Hazard identification number (Kemler code):** 30**EMS Number:** F-E,S-E**Stowage Category** A**14.7 Maritime transport in bulk according to IMO****instruments** Not applicable.**Transport/Additional information:****ADR****Limited quantities (LQ)** 5L**Excepted quantities (EQ)** Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

**Transport category** 3**Tunnel restriction code** D/E**IMDG****Limited quantities (LQ)** 5L**Excepted quantities (EQ)** Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

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**UN "Model Regulation":**

UN 1263 PAINT, 3, III

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Directive 2004/42/EC**

Product type: PAINTS AND VARNISHES

- Product subcategory: One-pack performance coatings
- Solvent-borne coatings, Limit value: 500 g/l

VOC: &lt;500 g/l

**Directive 2012/18/EU****Named dangerous****substances - ANNEX I**

None of the ingredients is listed.

**Seveso category**

P5c FLAMMABLE LIQUIDS

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

5,000 t

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

50,000 t

**REGULATION (EC) No****1907/2006 ANNEX XVII**

Conditions of restriction: 3

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**REGULATION (EU) 2019/1148****Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**National regulations:****GISBAU-Code**

GISCODE: Ö60

**VOC (EC)**

&lt; 500 g/l (VOC-max. = 500 g/l (2010 A/i))

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**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.

**Reasons for alterations**

Reach Annex II (2021)

**Relevant phrases**

H225 Highly flammable liquid and vapour.

H228 Flammable solid.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

**Recommended restriction of use**

Keep out of the reach of children

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

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

**Department issuing SDS:**

product safety department

**Contact:**

Hr. Dr. Starp

**Version number of previous****version:**

7.0

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Sol. 1: Flammable solids – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

**Sources**

ESIS : European chemical Substances Information System

ECHA Portal

Safety data sheets from raw material suppliers

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

Additions, Deletions, Revisions

Updated according to regulation (EU) 2020/878 amending regulation (EC) No:  
1907/2006 (REACH)