

Printing date 23.05.2018 Version number 1 Revision: 15.05.2018

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

1.1 Product identifier

Osmo Polyx®-Oil Express Trade name:

Article number: 3332 Clear Satin

3362 Clear Matt

1.2 Relevant identified uses of the substance or mixture and uses

advised against No further relevant information available.

Application of the substance / the

Coating compound/ Surface coating/ paint mixture

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Osmo Holz und Color GmbH & Co. KG

> Affhüppen Esch 12 D-48231 Warendorf

Further information obtainable

from: Product safety department

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

1.4 Emergency telephone

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

and English

### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

2.2 Label elements

Labelling according to Regulation

(EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02

Signal word Warning

H226 Flammable liquid and vapour. Hazard statements

P101 If medical advice is needed, have product container or label at hand. Precautionary statements

> 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.

P501 Dispose of contents/container in accordance with national regulations.

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

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Always wear a dust mask when sanding.

2.3 Other hazards

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.

EC number: 918-481-9	aliphatic hydrocarbons, C10-C13	25-50%
Index number: 649-327-00-6	♠ Asp. Tox. 1, H304	
Reg.nr.: 01-2119457273-39	•	
EC number: 927-241-2	aliphatic hydrocarbons, C9-C10	10-<25%
Reg.nr.: 01-2119471843-32	Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 3, H412	
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	0.1-≤2.59
EINECS: 252-104-2	substance with a Community workplace exposure limit	
Reg.nr.: 01-2119450011-60		

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

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult

doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

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

4.2 Most important symptoms and

effects, both acute and delayed Headache

Dizziness

4.3 Indication of any immediate medical attention and special

treatment needed No further relevant information available.

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### 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 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 Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Ensure adequate ventilation

**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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Ensure adequate ventilation. Warm water and cleansing agent

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

#### SECTION 7: Handling and storage

7.1 Precautions for safe handling Keep away from heat and direct sunlight.

Keep receptacles tightly sealed. Use only in well ventilated areas. Prevent formation of aerosols.

Information about fire - and

*explosion protection:* Protect against electrostatic charges.

Keep ignition sources away - Do not smoke.

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7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by

storerooms and receptacles: Store in a cool location.

Store only in the original receptacle.

Information about storage in one

common storage facility: Do not store together with alkalis (caustic solutions).

Do not store together with oxidising and acidic materials.

Further information about

storage conditions: Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Storage class:

7.3 Specific end use(s) No further relevant information available.

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

Additional information about

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

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

aliphatic hydrocarbons, C10-C13

TWA (8 H) Long-term value: 1,000 mg/m³, 150 ppm ppm

Source: UK SIA

34590-94-8 Dipropylene glycol monomethyl ether

WEL Long-term value: 308 mg/m³, 50 ppm

Sk

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

8.2 Exposure controls

Personal protective equipment: General protective and hygienic

measures: 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.

**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

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Material of gloves Nitrile rubber, NBR

Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective

gloves and has to be observed.

For the permanent contact gloves made of the following materials

are suitable: Nitrile rubber, NBR

As protection from splashes gloves made of the following

materials are suitable:Nitrile rubber, NBREye protection:Tightly sealed gogglesBody protection:Protective work clothing

#### SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

**General Information** 

Appearance:

Form: Fluid
Colour: Grey
Odour: Mild

Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Undetermined.

*Flash point:* 30-35 °C (DIN 53213)

Auto-ignition temperature: Product is not selfigniting.

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

are possible.

**Explosion limits:** 

 Lower:
 0.6 Vol %

 Upper:
 7.0 Vol %

Vapour pressure at 20 °C: 10 hPa

**Density at 20 °C:** 0.88-0.95 g/cm³ (DIN 51757)

Solubility in / Miscibility with

water: Not miscible or difficult to mix.

Viscosity:

*Dynamic:* Not determined. *Kinematic at 20 °C:* 20-25 s (DIN 53211/4)

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Solvent content:

< 500 g/l (VOC-max. Cat A/i (2010) = 500 g/l) VOC (EC) 9.2 Other information No further relevant information available.

#### SECTION 10: Stability and reactivity

No further relevant information available. 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).

No further relevant information available. 10.4 Conditions to avoid No further relevant information available. 10.5 Incompatible materials:

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

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

LD/LC50 values relevant for classification:					
aliphatic l	aliphatic hydrocarbons, C10-C13				
Oral	LD50	> 5000 mg/kg (rat) (OECD 401)			
Dermal	LD50	> 5000 mg/kg (rat) (OECD 402)			
Inhalative	LC50 / 4h	21 mg/l (rat) (OECD 403)			
aliphatic l	aliphatic hydrocarbons, C9-C10				
Oral	LD50	>2000 mg/kg (rat)			
Dermal	LD50	>2000 mg/kg (rat)			
Inhalative	alative LC50 / 4h   >20 mg/l (rat)				
34590-94-	34590-94-8 Dipropylene glycol monomethyl ether				
Oral	LD50	> 5000 mg/kg (rat)			
Dermal	LD50	> 2000 mg/kg (rat)			
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		3000 - 14000 mg/kg (rabbit)	
Inhalative	LC50 / 4h	500 mg/l (rat)	
	LC50 / 72h	h 0.76 mg/l (selenastrum capricornutum)	

Primary irritant effect:

Skin corrosion/irritation At long or repeated contact with skin it may cause dermatitis due to the degreasing

effect of the solvent.

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

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicityBased on available data, the classification criteria are not met.CarcinogenicityBased on available data, the classification criteria are not met.Reproductive toxicityBased on available data, the classification criteria are not met.STOT-single exposureBased on available data, the classification criteria are not met.STOT-repeated exposureBased on available data, the classification criteria are not met.Aspiration hazardBased on available data, the classification criteria are not met.

#### SECTION 12: Ecological information

#### 12.1 Toxicity

Aquatic toxicity:				
aliphatic hydrocarbons, C10-C13				
EC50 / 48h	> 1000 mg/l (daphnia) (OECD 202)			
EC50/ 72h	> 1000 mg/l (algae) (OECD 201)			
LC50 / 96h	> 1000 mg/l (fish) (OECD 203)			
Biolog. Abbaubarkeit	Biolog. Abbaubarkeit (leicht abbaubar)			
aliphatic hydrocarbons, C9-C10				
EC50 / 24h	EC50 / 24h <130 mg/kg (Oncorhynchus mykiss (Regenbogenforelle))			
	>100 mg/kg (selenastrum capricornutum)			
34590-94-8 Dipropyl	34590-94-8 Dipropylene glycol monomethyl ether			
EC50 / 48h (Static)	EC50 / 48h (Static) 1919 mg/l (daphnia)			
LC50 / 96h	LC50 / 96h 5.3 mg/l (Oncorhynchus mykiss (Regenbogenforelle))			
LC50 / 48h				

12.2 Persistence and degradability No further relevant information available.
 12.3 Bioaccumulative potential No further relevant information available.
 12.4 Mobility in soil No further relevant information available.

Additional ecological information:

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

water

12.5 Results of PBT and vPvB assessment

*PBT:* Not applicable.

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*vPvB:* Not applicable.

12.6 Other adverse effects No further relevant information available.

### SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

sewage system.

European waste catalogue		
08 01 11*	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

14.1 UN-Number		
ADR, IMDG, IATA	UN1263	
14.2 UN proper shipping name		
ADR	1263 PAINT	
IMDG	PAINT	
IATA	Paint	
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.	
Danger code (Kemler):	30	
EMS Number:	F-E, <u>S-E</u>	

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A
x II of Marpol
Not applicable.
5L
Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
3
D/E
5L
Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
UN 1263 PAINT, 3, III
,

#### SECTION 15: Regulatory information

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

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

National regulations:

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.

#### 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.

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Relevant phrases H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

**Department issuing SDS:** product safety department

Contact: Hr. Dr. Starp

Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement

concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3

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

Asp. Tox. 1: Aspiration hazard - Category 1

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

GR



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

1.1 Product identifier

Trade name: 6632 Hardener for Polyx®-Oil Express

1.2 Relevant identified uses of the substance or mixture and uses

advised against Use: Hardener for coating materials or adhesives for industrial and trade applications

Uses advised against: Not suitable for use in homeworker (DIY) applications.

Application of the substance / the

mixture Hardening agent/ Curing agent

Use only in combination with Osmo Polyx®-Oil Express

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Osmo Holz und Color GmbH & Co. KG

Affhüppen Esch 12 D-48231 Warendorf

Further information obtainable

*from:* Product safety department

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

1.4 Emergency telephone

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

and English

#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements

Labelling according to Regulation

(EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02 GHS07

Signal word Warning

Hazard-determining components

of labelling: Hexamethylene diisocyanate, oligomersHazard statements H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

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Traue name			-

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H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

**Precautionary statements** P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P260 Do not breathe mist/vapours/spray.

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

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with national regulations.

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

Always wear a dust mask when sanding.

Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

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: 28182-81-2	Hexamethylene diisocyanate, oligomers	50-100%
NLP: 500-060-2	Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	
Reg.nr.: 01-2119488934-20	·	
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	10-<25%
EINECS: 203-603-9	(A) Flam. Liq. 3, H226	
Index number: 607-195-00-7		
Reg.nr.: 01-2119475791-29		

**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: Symptoms of poisoning may even occur after several hours; therefore medical

observation for at least 48 hours after the accident.

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After inhalation: Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

In case of skin reactions, seek medical advice.

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 No further relevant information available.

4.3 Indication of any immediate medical attention and special

treatment needed No further relevant information available.

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

5.1 Extinguishing media

Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable

extinguishing agents: Water with full jet

5.2 Special hazards arising from

the substance or mixture During heating or in case of fire poisonous gases are produced.

Carbon monoxide (CO) Nitrogen oxides (NOx) Isocyanate vapors

(Traces)

Hydrogen cyanide (HCN)

Do not inhale explosion gases or combustion gases.

5.3 Advice for firefighters

**Protective equipment:** Wear self-contained respiratory protective device.

Wear fully protective suit.

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* Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources. Ensure adequate ventilation

6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.

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

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6.3 Methods and material for

containment and cleaning up: Ensure adequate ventilation.

Remove mechanically; cover remainders with wet, absorbent material (eg. as sawdust, chemical binder based on calcium silicate hydrate, sand). After approx. 1 hour transfer to waste container and do not seal (formation of CO2!). Keep damp in a safe ventilated

area for several days.

**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.

Keep receptacles tightly sealed. Use only in well ventilated areas. Prevent formation of aerosols.

Ensure good ventilation/exhaustion at the workplace.

When spraying air suction is required. Noted in Chapter 8 airborne concentrations should be monitored. At workplaces where isocyanate aerosols and / or vapors may occur in higher concentrations, must by deliberate air extraction exceeding hygienic workplace limits are prevented. The air must be moved away from the personnel. The personal protective measures described in Chapter 8 must be observed. The precautions required when handling isocyanates must be observed. Avoid contact with skin and eyes and do not breathe vapors.

Information about fire - and

*explosion protection:* Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by

storerooms and receptacles: Store in a cool location.

Store only in the original receptacle.

Information about storage in one

common storage facility: Do not store together with alkalis (caustic solutions).

Do not store together with oxidising and acidic materials.

Further information about

storage conditions: Store in cool, dry conditions in well sealed receptacles.

Storage class:

7.3 Specific end use(s) No further relevant information available.

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

Additional information about

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

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

108-65-6 2-methoxy-1-methylethyl acetate

WEL Short-term value: 548 mg/m³, 100 ppm

Long-term value: 274 mg/m³, 50 ppm

Sk

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

8.2 Exposure controls

Personal protective equipment: General protective and hygienic

*measures:* Keep away from foodstuffs, beverages and feed.

Do not eat, drink, smoke or sniff while working.

Do not carry product impregnated cleaning cloths in trouser pockets.

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

**Respiratory protection:** Use suitable respiratory protective device only when aerosol or mist is formed.

Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use respiratory filter device. In case of

intensive or longer exposure use self-contained respiratory protective device.

**Protection of hands:** Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/

the preparation.

Selection of the glove material on consideration of the penetration times, rates of

diffusion and the degradation

Material of gloves 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.

Butyl rubber, BR

**Penetration time of glove material** Recommended thickness of the material:  $\geq 0.5$  mm

The breakthrough time must be at least 480 minutes (Permeation according to EN 374

Part 3: Level 6)

The exact break trough time has to be found out by the manufacturer of the protective

gloves and has to be observed.

Not suitable are gloves made of

the following materials: Nitrile rubber, NBR

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*Eye protection:* Tightly sealed goggles

### SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties **General Information** Appearance: Fluid Form: Colourless Colour: Odour: Mild Odour threshold: Not determined. pH-value: Not determined. Change in condition Melting point/freezing point: Undetermined. Initial boiling point and boiling range: 146 °C >45 °C (DIN EN ISO 2719) Flash point: Flammability (solid, gas): Not applicable. 315 °C Ignition temperature: Not determined. Decomposition temperature: Auto-ignition temperature: Product is not selfigniting. Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible. **Explosion limits:** 1.5 Vol % Lower: 10.8 Vol % Upper: Vapour pressure at 20 °C: 3.4 hPa Density at 20 °C: 0.97-1.15 g/cm<sup>3</sup> (DIN 51757) Not determined. Relative density

Not determined.

Not determined.

Not miscible or difficult to mix.

ained

**Dynamic:** Not determined. **Kinematic:** Not determined.

Evaporation rate

Viscosity:

Solubility in / Miscibility with

Partition coefficient: n-octanol/water:

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Solvent content:

*VOC (EC)* ~ 150 g/L

150 g/l

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

### SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability
Thermal decomposition /

conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous

reactions

Reacts with alcohols.

Reacts with amines.

10.4 Conditions to avoid
10.5 Incompatible materials:

No further relevant information available. No further relevant information available.

10.6 Hazardous decomposition

products: No hazardous decomposition products when stored and handled correctly.

#### SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Harmful if inhaled.

LD/LC50 values relevant f	for classification:
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#### 28182-81-2 Hexamethylene diisocyanate, oligomers

Oral	LD50	>5000 mg/kg (rat)
Inhalative	LC50 / 4h	1.5 mg/l (rat) (OECD- Prüfrichtlinie 403)

### 108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8532 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50 / 4h	35.7 mg/l (rat)

Primary irritant effect:

Skin corrosion/irritation At long or repeated contact with skin it may cause dermatitis due to the degreasing

effect of the solvent.

Serious eye damage/irritation

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

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Experience with humans:

Special properties / effects: Over-exposure - especially when spraying isocyanate based

varnishes without protective measures - there is a risk of concentration-dependent irritation of eyes, nose, throat and airways. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible. Hypersensitive persons may already be initiated at low isocyanate concentrations, also

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below the TLV value. For prolonged contact with skin, tanning and irritating effects

are possible.

Additional toxicological

information:May cause an allergic skin reaction.SensitisationMay cause sensitisation by skin contact.CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicityBased on available data, the classification criteria are not met.CarcinogenicityBased on available data, the classification criteria are not met.Reproductive toxicityBased on available data, the classification criteria are not met.

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure

Aspiration hazard

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

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

#### SECTION 12: Ecological information

#### 12.1 Toxicity

Aquatic tox	icity:
28182-81-2	Hexamethylene diisocyanate, oligomers
EC50 / 48h	> 100 mg/l (daphnia) (OECD- Prüfrichtlinie 202)
IC50 / 72h	199 mg/l (algae) (OECD- Prüfrichtlinie 201)
LC50 / 96h	> 100 mg/l (Brachydanio rerio) (OECD- Prüfrichtlinie 203)

12.2 Persistence and degradabilityNo further relevant information available.12.3 Bioaccumulative potentialNo further relevant information available.12.4 Mobility in soilNo further relevant information available.

Ecotoxical effects:

Behavio	ur in sewage processing plants:
28182-8	1-2 Hexamethylene diisocyanate, oligomers
EC0 / 3h	>100 mg/l (daphnia)
EC50	> 10.000 mg/l (activated sludge organism) (OECD Guideline for Testing of Chemicals, No.209)
108-65-0	5 2-methoxy-1-methylethyl acetate
EC50	>1000 mg/l (algae)
	>1000 mg/l (activated sludge organism)
	>100 mg/l (daphnia)
	>100 mg/l (fish)

#### Additional ecological information:

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

water

#### 12.5 Results of PBT and vPvB assessment

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

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12.6 Other adverse effects

No further relevant information available.

### SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

sewage system.

Uncleaned packaging:

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

14.1 UN-Number		
ADR, IMDG, IATA	UN1263	
14.2 UN proper shipping name		
ADR	1263 PAINT	
IMDG, IATA	PAINT	
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.	
Danger code (Kemler):	30	
EMS Number:	F-E, <u>S-E</u>	
Stowage Category	A	
14.7 Transport in bulk according to Annex II of Marpol		
and the IBC Code	Not applicable.	

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 ${\it Transport/Additional\ information:}$ 

**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

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 2012/18/EU

Named dangerous substances -

ANNEX I None of the ingredients is listed.

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

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

#### SECTION 16: Other information

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

Relevant phrases H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

**Department issuing SDS:** product safety department

Contact: Hr. Dr. Starp

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Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement

concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Sens. 1: Skin sensitisation – Category 1

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

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<sup>\*</sup> Data compared to the previous version altered.