

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 17.01.2024

Version number 7.0 (replaces version 6.1)

Revision: 17.01.2024

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

#### 1.1 Product identifier

**Trade name:** Hardener for Polyx®-Oil Express

**Article number:** 6632

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

Use : For hardener coatings for industrial or professional applications.  
Recommended use : Not suitable for household use.

#### 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  
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

#### 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

##### Hazard pictograms



GHS02 GHS07

##### Signal word

Warning

##### Hazard-determining components of labelling: Hazard statements

Hexamethylene diisocyanate, oligomers  
H226 Flammable liquid and vapour.  
H332 Harmful if inhaled.

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**Precautionary statements**

H317 May cause an allergic skin reaction.  
 H335 May cause respiratory irritation.  
 P210 Keep away from heat. - No smoking.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with national regulations.

**2.3 Other hazards**

Observe the general safety regulations when handling chemicals.  
 Always wear a dust mask when sanding.

**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 NLP: 500-060-2	Hexamethylene diisocyanate, oligomers ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	50–100%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226	10–25%
CAS: 822-06-0 EINECS: 212-485-8 Index number: 615-011-00-1	hexamethylene-di-isocyanate ⚠ Acute Tox. 3, H331; ⚠ Resp. Sens. 1, H334; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %	<0.1%

**SVHC**

Not applicable.

**Additional information:**

< 0.1% diisocyanates (REACH XVII 74)  
 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.  
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**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.

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**After skin contact:** Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.

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

**After swallowing:** Rinse mouth.  
Do NOT induce vomiting.  
If symptoms persist consult doctor.

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

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

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.  
Use fire extinguishing methods suitable to surrounding conditions.

**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 (NO<sub>x</sub>)  
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** Keep away from ignition sources.

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**For non-emergency personnel**

Ensure adequate ventilation

**For emergency responders**

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

**6.2 Environmental**

**precautions:**

Wear protective equipment. Keep unprotected persons away.

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

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

**6.3 Methods and material for**

**containment and cleaning up:**

Remove mechanically; cover residues with moist, liquid-binding material (e.g. sawdust, calcium silicate hydrate-based chemical binder, sand). After about 1 hour, take up in waste container, do not close (CO<sub>2</sub> evolution!). Keep moist and leave in a safe place outdoors for several days.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

The leakage area can be decontaminated with the following recommended decontaminant:

Decontaminant 1: 8-10% sodium carbonate and 2% aqueous liquid soap.

Decontaminant 2: Liquid/yellow soap (potassium soap with ~15% anionic surfactants): 20ml; water :700ml; polyethylene glycol (PEG 400): 350ml

Decontaminant 3: 30% commercial liquid detergent (containing monoethanolamine), 70% water.

**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.

Spraying requires the extraction of air.

The air limit values mentioned in Chapter 8 must be observed. In workplaces where aerosols and/or vapours of isocyanates may occur in higher concentrations, targeted air pollution control shall be used to avoid exceeding the occupational hygiene limit value. Air movement must be kept away from people.

The personal protection measures described in Chapter 8 must be followed.

When handling isocyanates, the required protective measures must be observed. Avoid contact with skin and eyes and inhalation of vapours.

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**General protective and hygienic measures:**

Be sure to clean skin thoroughly after work and before breaks.  
 Immediately remove all soiled and contaminated clothing  
 Store protective clothing separately.  
 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.

**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:** 3

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

IOELV	Short-term value: 550 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 275 mg/m <sup>3</sup> , 50 ppm
	Skin

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

Oral	DNEL Verbraucher (Langzeit - systemische Effekte)	36 mg/kg KGew. /Tag
Inhalative	Worker (chronic - Systemic health effec)	275 mg/m <sup>3</sup>
	DNEL Verbraucher (Lanzeit - systemische Effekte)	33 mg/m <sup>3</sup>

**PNECs**
**28182-81-2 Hexamethylene diisocyanate, oligomers**

PNEC sea water	0.0127 mg/l
PNEC fresh water	0.127 mg/l

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PNEC sediment (fresh water)	266,701 mg/kg
PNEC sediment (sea water)	26,670 mg/kg /Trocke
PNEC soil	53,183 mg/kg /Trocke
PNEC sewage treatment plant	88 mg/l
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
PNEC sea water	0.064 mg/l
PNEC fresh water	0.635 mg/l
PNEC sediment (fresh water)	3.29 mg/kg
PNEC sediment (sea water)	0.329 mg/kg
PNEC soil	0.29 mg/kg
PNEC sewage treatment plant	100 mg/l

**Ingredients with biological limit values:**

**Additional Occupational  
Exposure Limit Values for  
possible hazards during  
processing:**

Derived no adverse effect exposure level (DNEL)  
 Hexamethylene-1,6-diisocyanate homopolymer  
 (Value type Exposure route Health effect Value Remarks)  
 Worker - Inhalation - Long-term - Systemic effects: No hazard identified  
 Worker - Inhalation - Acute - Systemic effects: No hazard identified  
 Worker - Inhalation - Acute - Local effects:  
 Worker - Dermal - Long-term - systemic effects: No hazard identified  
 Workers - Dermal - Acute - Systemic Effects: No hazard identified  
 Workers - Dermal Long-term - local effects: High risk (no limit value derived)  
 Most critical endpoint: Sensitization (skin)  
 Workers - Dermal - Acute - Local effects: High risk (no limit value derived)  
 Most critical endpoint: sensitisation (skin)  
 Workers - Eye contact - Local effects: No hazard identified

**Additional information:**

The lists valid during the making were used as basis.

**8.2 Exposure controls**

**Appropriate engineering  
controls**

No further data; see section 7.

**Individual protection measures, such as 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.

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<b>Respiratory protection:</b>	In the case of respiratory and skin hypersensitivity (asthma, chronic bronchitis, chronic skin diseases), handling of the product is not recommended. Respiratory protection required at inadequately ventilated workplaces and during spray processing. Fresh air masks or combination filters A2-P2 (EN529) are recommended for short-term work.
<b>Hand protection</b>	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
<b>Material of gloves</b>	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. Suitable materials for protective gloves; EN 374: Butyl rubber - IIR: thickness $\geq 0.5\text{mm}$ ; breakthrough time $\geq 480\text{min}$ . Fluorocarbon rubber - FKM: thickness $\geq 0.4\text{mm}$ ; breakthrough time $\geq 480\text{min}$ . Multi-layer glove - PE/EVAL/PE ; Breakthrough time $\geq 480\text{min}$ . Recommendation: Dispose of contaminated gloves.
<b>Penetration time of glove material</b>	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. The penetration time of the mixture shall be at least 480 minutes (permeability according to EN 374 Part III: level 6).
<b>As protection from splashes gloves made of the following materials are suitable:</b>	Nitrile rubber, NBR
<b>Eye/face protection</b>	Tightly sealed goggles
<b>Body protection:</b>	Protective work clothing Wear suitable protective clothing when working.
<b>Other</b>	In case of hypersensitivity of the skin, handling of the product is not recommended.

### 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>	Colourless
<b>Odour:</b>	Mild
<b>Odour threshold:</b>	Not determined.

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<b>Melting point/freezing point:</b>	Undetermined.
<b>Boiling point or initial boiling point and boiling range</b>	146 °C
<b>Flammability</b>	Not applicable.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	1.5 Vol %
<b>Upper:</b>	10.8 Vol %
<b>Flash point:</b>	>45 °C (DIN EN ISO 2719)
<b>Auto-ignition temperature:</b>	315 °C
<b>Decomposition temperature:</b>	Not determined.
<b>pH</b>	Mixture is non-soluble (in water).
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not determined.
<b>Dynamic:</b>	Not determined.
<b>Solubility</b>	
<b>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>	3.4 hPa
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	1,020 - 1,040 g/cm <sup>3</sup> (DIN 51757)
<b>Relative density</b>	Not determined.

**9.2 Other information****Appearance:****Form:** Fluid**Important information on protection of health and environment, and on safety.****Ignition temperature:**

Product is not selfigniting.

**Explosive properties:**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**Solvent content:****VOC (EC)**

~150 g/l

**Change in condition****Evaporation rate**

Not determined.

**Information with regard to physical hazard classes****Explosives**

Void

**Flammable gases**

Void

**Aerosols**

Void

**Oxidising gases**

Void

**Gases under pressure**

Void

**Flammable liquids**

Flammable liquid and vapour.

**Flammable solids**

Void

**Self-reactive substances and mixtures**

Void

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<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

<b>10.1 Reactivity</b>	No further relevant information available.
<b>10.2 Chemical stability</b>	
<b>Thermal decomposition / conditions to be avoided:</b>	No decomposition if used according to specifications.
<b>10.3 Possibility of hazardous reactions</b>	Reacts with alcohols. Reacts with amines. with water gradual CO <sub>2</sub> development, in closed containers pressure build-up; danger of bursting.
<b>10.4 Conditions to avoid</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>10.5 Incompatible materials:</b>	No further relevant information available.
<b>10.6 Hazardous decomposition products:</b>	No hazardous decomposition products when stored and handled correctly.

### SECTION 11: Toxicological information

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

**Acute toxicity** Harmful if inhaled.

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

#### ATE (Acute Toxicity Estimates)

Inhalative	LC50 / 4h	>13 mg/l
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#### 28182-81-2 Hexamethylene diisocyanate, oligomers

Oral	LD50	>2,500 mg/kg (rat) (OECD 423)
Dermal	LD50	>2,000 mg/kg (rat) (Acute Dermal Toxicity)
Inhalative	LC50 / 4h	11 mg/l (ATE)

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<b>108-65-6 2-methoxy-1-methylethyl acetate</b>		
Oral	LD50	8,532 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	35.7 mg/l (rat)
<b>822-06-0 hexamethylene-di-isocyanate</b>		
Oral	LD50	738 mg/kg (rat)
Dermal	LD50	593 mg/kg (rat)
Inhalative	LC50 / 4h	3 mg/l (ATE)
<b>Skin corrosion/irritation</b>		
<b>28182-81-2 Hexamethylene diisocyanate, oligomers</b>		
Dermal	Skin irritation	(rabbit) (OECD- Prüfrichtlinie 404)
<b>Serious eye damage/irritation</b>		
<b>28182-81-2 Hexamethylene diisocyanate, oligomers</b>		
Eye irritation		(rabbit)
<b>Respiratory or skin sensitisation</b>		
<b>28182-81-2 Hexamethylene diisocyanate, oligomers</b>		
Inhalative	sensitization	(mouse) (Lokaler Lymphknoten-Test (LLNA))
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.	
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.	
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.	
<b>STOT-single exposure</b>	May cause respiratory irritation.	
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met.	
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.	
<b>Subacute to chronic toxicity:</b>		
<b>28182-81-2 Hexamethylene diisocyanate, oligomers</b>		
NOAEL	3.3 mg/Tag /inhalativ (rat)	

**Experience with humans:** Special properties/effects: concerns for concentration-dependent irrit effects on eyes, nose, throat and respiratory tract as a consequence of excessive exposure, in particular from spraying of lacquers containing isocyanate without protective measures. Delayed onset of symptoms and hypersensitivity (breathing difficulties, cough, asthma) may occur. In hypersensitive individuals, reactions may occur even at very low concentrations of isocyanates, even below the MAK value. Tanning and irritation may occur with prolonged skin contact.

**Additional toxicological information:** May cause an allergic skin reaction.  
 The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

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**Sensitisation** May cause an allergic skin reaction.

**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****28182-81-2 Hexamethylene diisocyanate, oligomers**

EC50 / 48h	>100 mg/l (Daphnia magna) (OECD- Prüfrichtlinie 202)
IC50 / 72h	>1,000 mg/l (algae) (DIN 38412)
LC50 / 96h	>100 mg/l (Brachydanio rerio) (OECD- Prüfrichtlinie 203)
Biolog. Abbaubarkeit	28 % (OECD Guideline for Testing of Chemicals, No.301 D)
Bioconceived factor	3.2 /(berechnet)

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

LC50 / 96h	134 mg/l (fish) (Fish Acute Toxicity Test)
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**12.2 Persistence and degradability**

No further relevant information available.

**12.3 Bioaccumulative potential****28182-81-2 Hexamethylene diisocyanate, oligomers**

log POW	~8.38 (Wert berechnet)
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**Bioconcentration factor (BCF)**

Bioaccumulation:  
 Hexamethylene-1,6-diisocyanate homopolymer  
 Bioconcentration factor (BCF): 3.2  
 Method: (calculated)  
 Accumulation in aquatic organisms is not expected.

Bioconcentration factor (BCF): 367.7  
 Method: (calculated)  
 Accumulation in aquatic organisms is not to be expected.  
 Investigation on the hydrolysate.

**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**

Isocyanate reacts with water at the interface to form carbon dioxide and a solid, high-melting and insoluble reaction product (polyurea).

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This reaction is strongly promoted by interface-active substances (e.g. liquid soaps) or water-soluble solvents. According to experience to date, polyurea is inert and non-degradable.

**Behaviour in sewage processing plants:**

**28182-81-2 Hexamethylene diisocyanate, oligomers**

EC0 / 3h	>100 mg/l (Daphnia magna)
EC50	3,828 mg/l (activated sludge organism) (OECD Guideline for Testing of Chemicals, No.209)

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

EC50	>1,000 mg/l (algae)
	>1,000 mg/l (activated sludge organism)
	>100 mg/l (Daphnia magna)
	>100 mg/l (fish)

**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.

**European waste catalogue**

08 05 01*	waste isocyanates
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:** Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

**14.1 UN number or ID number**

<b>ADR, IMDG, IATA</b>	UN1263
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**14.2 UN proper shipping name**

<b>ADR</b>	1263 PAINT RELATED MATERIAL
<b>IMDG, IATA</b>	PAINT RELATED MATERIAL

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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 RELATED MATERIAL, 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

##### 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.

#### 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.

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

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Version number 7.0 (replaces version 6.1)

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H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H331 Toxic if inhaled.  
 H332 Harmful if inhaled.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335 May cause respiratory irritation.  
 EUH204 Contains isocyanates. May produce an allergic reaction.

**Department issuing SDS:** product safety department

**Contact:** Hr. Dr. Starp

**Version number of previous version:** 6.1

**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  
 ATE: Acute toxicity estimate values  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Acute Tox. 3: Acute toxicity – Category 3  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Resp. Sens. 1: Respiratory sensitisation – Category 1  
 Skin Sens. 1: Skin sensitisation – Category 1  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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