

23.03.2021

**Kit components**

Product code	Description
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<b>355</b>	<b>IJmopox ZF primer set</b>
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Components:

353	IJMOPOX ZF PRIMER base component
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354	IJMOPOX ZF PRIMER HARDENER
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name: IJMOPOX ZF PRIMER  
base component

Article number: 353  
 UFI: 58D2-D0FM-700Q-VQY5

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

Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites  
 SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
 SU19 Building and construction work

Product category PC9a Coatings and paints, thinners, paint removers  
 Process category PROC19 Manual activities involving hand contact  
 PROC7 Industrial spraying  
 PROC10 Roller application or brushing  
 PROC11 Non industrial spraying

Environmental release category ERC5 Use at industrial site leading to inclusion into/onto article  
 ERC8c Widespread use leading to inclusion into/onto article (indoor)  
 ERC8f Widespread use leading to inclusion into/onto article (outdoor)

Article category AC13 Plastic articles  
 AC7 Metal articles  
 AC11 Wood articles

Application of the substance / the mixture See our technical datasheet for application details of this product.  
 Epoxy primer/epoxy coating

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

Manufacturer/Supplier: De IJssel Coatings BV, Centrumbaan 960, NL 2841 MH Moordrecht  
 Tel: +31 182 372177, E-mail: info@de-ijssel-coatings.nl

Further information obtainable from: Research and Development.


**1.4 Emergency telephone number:**

De IJssel Coatings BV, Tel. +31 182 372177, E-mail: safety@de-ijssel-coatings.nl  
 Office hours: working days from 08:00 to 17:00 hrs.


**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**


Classification according to Regulation (EC) No 1272/2008

 GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

 GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

 GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

 GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

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

     
 GHS02 GHS07 GHS08 GHS09

Signal word Warning

Hazard-determining components of labelling: bis[4-(2,3-epoxypropoxy)phenyl]propane  
 xylene

Hazard statements H226 Flammable liquid and vapour.

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<ul style="list-style-type: none"> <li>· Precautionary statements</li> <li>· Additional information:</li> <li>· <b>2.3 Other hazards</b></li> <li>· Results of PBT and vPvB assessment</li> <li>· PBT:</li> <li>· vPvB:</li> </ul>	<p>H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.</p> <p>P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p> <p>EUH205 Contains epoxy constituents. May produce an allergic reaction.</p> <p>Not applicable. Not applicable.</p>
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### SECTION 3: Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures

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

· Dangerous components:

CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	xylene ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10 – 25%
CAS: 1675-54-3 EINECS: 216-823-5 Index number: 603-073-00-2 Reg.nr.: 01-2119456619-26	bis[4-(2,3-epoxypropoxy)phenyl]propane ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	10 – 25%
CAS: 7779-90-0 EINECS: 231-944-3 Index number: 030-011-00-6 Reg.nr.: 01-2119485044-40	trizinc bis(orthophosphate) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	10 – 25%
CAS: 108-10-1 EINECS: 203-550-1 Index number: 606-004-00-4 Reg.nr.: 01-2119473980-30	4-methylpentan-2-one ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	2.5 – 10%
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 Reg.nr.: 01-2119484630-38	butan-1-ol ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	1 – 2.5%
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3 Reg.nr.: 01-2119457435-35	1-methoxy-2-propanol ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	1 – 2.5%
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7 Reg.nr.: 01-2119463881-32	zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1 – 2.5%
CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO <sub>2</sub> ) ⚠ STOT RE 2, H373	1 – 2.5%

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

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

##### **· 4.1 Description of first aid measures**

- General information: 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.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: 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: CO2 or powder. Fight larger fires with alcohol resistant foam.
- 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.

##### **· 5.3 Advice for firefighters**

- Protective equipment: Mouth respiratory protective device.

#### **SECTION 6: Accidental release measures**

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

Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.

##### **· 6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.  
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:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 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**

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

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

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.

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

##### **· Storage:**

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

No special requirements.

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- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Recommended storage temperature: 5 - 30 °C
- **7.3 Specific end use(s)** No further relevant information available.

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

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

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

<b>1330-20-7 xylene</b>		
IOELV	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Skin	
<b>108-10-1 4-methylpentan-2-one</b>		
IOELV	Short-term value: 208 mg/m <sup>3</sup> , 50 ppm Long-term value: 83 mg/m <sup>3</sup> , 20 ppm	
<b>107-98-2 1-methoxy-2-propanol</b>		
IOELV	Short-term value: 568 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm Skin	
<b>14808-60-7 Quartz (SiO<sub>2</sub>)</b>		
BOELV	Long-term value: 0.1* mg/m <sup>3</sup> *respirable fraction	
· DNEL (Derived No Effect Level) for workers		
<b>1330-20-7 xylene</b>		
Dermal	Long term - local effects, worker	180 µg/cm <sup>2</sup> (Worker)
Inhalative	Acute - systemic effects, worker	289 mg/m <sup>3</sup> (Worker)
	Acute - local effects, worker	289 mg/m <sup>3</sup> (Worker)
	Long-term - systemic effects, worker	77 mg/m <sup>3</sup> (Worker)
<b>1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane</b>		
Dermal	Long-term - systemic effects, worker	0.75 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, worker	4.93 mg/m <sup>3</sup> (Worker)
<b>7779-90-0 trizinc bis(orthophosphate)</b>		
Dermal	Long-term - systemic effects, worker	83 mg/kg bw/day (Worker)
Inhalative	Long-term - local effects, worker	5 mg/m <sup>3</sup> (Worker)
<b>71-36-3 butan-1-ol</b>		
Inhalative	Long-term - local effects, worker	310 mg/m <sup>3</sup> (Worker)
<b>107-98-2 1-methoxy-2-propanol</b>		
Dermal	Long-term - systemic effects, worker	50.6 mg/kg bw/day (Worker)
Inhalative	Acute - local effects, worker	553.5 mg/m <sup>3</sup> (Worker)
	Long-term - local effects, worker	369 mg/m <sup>3</sup> (Worker)
<b>1314-13-2 zinc oxide</b>		
Dermal	Long-term - systemic effects, worker	83 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, worker	5 mg/m <sup>3</sup> (Worker)
· DNEL (Derived No Effect Level) for the general population		
<b>1330-20-7 xylene</b>		
Oral	Long-term - systemic effects, general population	1.6 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	108 mg/kg bw/day (General population)
Inhalative	Acute - systemic effects, general population	174 mg/m <sup>3</sup> (General population)
	Acute - local effects, general population	174 mg/m <sup>3</sup> (General population)

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	Long-term - systemic effects, general population	14.8 mg/m <sup>3</sup> (General population)
<b>1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane</b>		
Oral	Long-term - systemic effects, general population	0.5 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	0.0893 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects, general population	0.87 mg/m <sup>3</sup> (General population)
<b>7779-90-0 trizinc bis(orthophosphate)</b>		
Oral	Long-term - systemic effects, general population	0.83 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	83 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects, general population	2.5 mg/m <sup>3</sup> (General population)
<b>71-36-3 butan-1-ol</b>		
Oral	Long-term - systemic effects, general population	3.125 mg/kg bw/day (General population)
Inhalative	Long-term - local effects, general population	55 mg/m <sup>3</sup> (General population)
<b>107-98-2 1-methoxy-2-propanol</b>		
Oral	Long-term - systemic effects, general population	3.3 mg/kg bw/day (General population)
Dermal	Acute - systemic effects, general population	18.1 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects, general population	43.9 mg/m <sup>3</sup> (General population)
<b>1314-13-2 zinc oxide</b>		
Oral	Long-term - systemic effects, general population	2.5 mg/kg bw/day (General population)
		0.83 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	83 mg/kg bw/day (General population)
· PNEC (Predicted No Effect Concentration) values		
<b>1330-20-7 xylene</b>		
Aquatic compartment - freshwater		0.327 mg/l
Aquatic compartment - marine water		0.327 mg/l
Aquatic compartment - water, intermittent releases		0.327 mg/l
Aquatic compartment - sediment in freshwater		12.46 mg/kg sed dw
Aquatic compartment - sediment in marine water		12.46 mg/kg sed dw
Terrestrial compartment - soil		2.31 mg/kg dw
Sewage treatment plant		6.58 mg/l
<b>1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane</b>		
Aquatic compartment - freshwater		0.006 mg/l (Freshwater)
Aquatic compartment - marine water		0.001 mg/l (Marine water)
Aquatic compartment - sediment in freshwater		0.341 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water		0.034 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil		0.065 mg/kg dw (Soil)
Sewage treatment plant		10 mg/l (stp)
Oral secondary poisoning		11 mg/kg food (Food sec poisoning)
<b>7779-90-0 trizinc bis(orthophosphate)</b>		
Aquatic compartment - freshwater		0.327 mg/l (Freshwater)
Aquatic compartment - marine water		0.327 mg/l (Marine water)
Aquatic compartment - water, intermittent releases		0.327 mg/l (Intermittent release water)
Aquatic compartment - sediment in freshwater		117.8 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water		56.5 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil		35.6 mg/kg dw (Soil)
Sewage treatment plant		6.58 mg/l (stp)
<b>71-36-3 butan-1-ol</b>		
Aquatic compartment - freshwater		0.082 mg/l (Freshwater)
Aquatic compartment - marine water		0.0082 mg/l (Marine water)
Aquatic compartment - water, intermittent releases		2.25 mg/l (Intermittent release water)
Aquatic compartment - sediment in freshwater		0.178 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water		0.0178 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil		0.015 mg/kg dw (Soil)

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Sewage treatment plant	2476 mg/l (stp)
<b>107-98-2 1-methoxy-2-propanol</b>	
Aquatic compartment - freshwater	10 mg/l (Freshwater)
Aquatic compartment - marine water	1 mg/l (Marine water)
Aquatic compartment - water, intermittent releases	100 mg/l (Intermittent release water)
Aquatic compartment - sediment in freshwater	52.3 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water	5.2 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil	4.59 mg/kg dw (Soil)
Sewage treatment plant	100 mg/l (stp)
<b>1314-13-2 zinc oxide</b>	
Aquatic compartment - freshwater	0.0206 mg/l (Freshwater)
Aquatic compartment - marine water	0.0061 mg/l (Marine water)
Aquatic compartment - sediment in freshwater	117.8 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water	56.5 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil	35.6 mg/kg dw (Soil)
Sewage treatment plant	0.1 mg/l (stp)

· 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.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Store protective clothing separately.  
 Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:

Protective gloves  
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Nitrile rubber, NBR

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.

Recommended thickness of the material:  $\geq 0.3$  mm

· 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 mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).

· 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, NBR

· Not suitable are gloves made of the following materials:

Leather gloves  
 Strong material gloves

· Eye protection:

Tightly sealed goggles

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**SECTION 9: Physical and chemical properties**

<b>· 9.1 Information on basic physical and chemical properties</b>	
· General Information	
· Appearance:	
Form:	Fluid
Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value at 20 °C:	7
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	114 – 117 °C
· Flash point:	30 °C (Pensky Martens, ASTM D93)
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	460 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1.1 Vol %
Upper:	7 Vol %
· Vapour pressure at 20 °C:	6.7 hPa
· Density at 20 °C:	1.55 g/cm <sup>3</sup> (DIN 51757, ASTM D 1298)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic at 20 °C:	1200 – 1700 mPas (Brookfield, ASTM D1544)
Kinematic at 40 °C:	700 – 1000 mm <sup>2</sup> /s
· Solvent content:	
Organic solvents:	27.3 %
VOC (2004/42/EC):	27.25 %
Solids content:	72.8 %
· 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	No dangerous reactions known.
· 10.4 Conditions to avoid	No further relevant information available.
· 10.5 Incompatible materials:	No further relevant information available.
· 10.6 Hazardous decomposition products:	No dangerous decomposition products known.

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**\* SECTION 11: Toxicological information**
**· 11.1 Information on toxicological effects**

- Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

· Components	Type	Value	Species
<b>ATE (Acute Toxicity Estimates)</b>			
Oral	LD50	45143 mg/kg (Rat)	
Dermal	LD50	11429 mg/kg (Rabbit)	
<b>1330-20-7 xylene</b>			
Oral	LD50	4300 mg/kg (Rat)	
Dermal	LD50	2000 mg/kg (Rabbit)	
<b>7779-90-0 trizinc bis(orthophosphate)</b>			
Oral	LD50	> 5000 mg/kg (Rat)	
<b>108-10-1 4-methylpentan-2-one</b>			
Oral	LD50	2080 mg/kg (Rat)	
Dermal	LD50	16000 mg/kg (rab)	
<b>71-36-3 butan-1-ol</b>			
Oral	LD50	790 mg/kg (Rat)	
Dermal	LD50	3400 mg/kg (Rabbit)	
<b>107-98-2 1-methoxy-2-propanol</b>			
Oral	LD50	5660 mg/kg (Rat)	
Dermal	LD50	13000 mg/kg (Rabbit)	
<b>1314-13-2 zinc oxide</b>			
Oral	LD50	> 5000 mg/kg (Rat)	

- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- Additional toxicological information:
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.
- Aspiration hazard Based on available data, the classification criteria are not met.

**\* SECTION 12: Ecological information**
**· 12.1 Toxicity**

- Aquatic toxicity: No further relevant information available.

· Type of test	Effective concentration	Method	Assessment
<b>ATE (Acute Toxicity Estimates)</b>			
Inhalative	LC50/4 h	42.7 – 50.8 mg/l	
<b>108-10-1 4-methylpentan-2-one</b>			
Inhalative	LC50/4 h	8.3 – 16.6 mg/l (Rat)	
<b>71-36-3 butan-1-ol</b>			
Inhalative	LC50/4 h	8000 mg/l (Rat)	
<b>107-98-2 1-methoxy-2-propanol</b>			
Inhalative	LC50/4 h	25.8 mg/l (Rat)	

- **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.

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- Ecotoxicological effects:
- Remark: Toxic for fish
- Additional ecological information:
- General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- PBT: Not applicable.
- vPvB: Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue	
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP13	Sensitising
HP14	Ecotoxic

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

### SECTION 14: Transport information

· <b>14.1 UN-Number</b>	
· ADR/RID/ADN, IMDG, IATA	UN1263
· <b>14.2 UN proper shipping name</b>	
· ADR/RID/ADN	1263 PAINT, ENVIRONMENTALLY HAZARDOUS
· IMDG	PAINT (trizinc bis(orthophosphate), zinc oxide), MARINE
· IATA	POLLUTANT
	PAINT
· <b>14.3 Transport hazard class(es)</b>	
· ADR/RID/ADN	
· Class	3 (F1) Flammable liquids.
· Label	3
-----	
· IMDG, IATA	
· Class	3 Flammable liquids.
· Label	3
· <b>14.4 Packing group</b>	
· ADR/RID/ADN, IMDG, IATA	III
· <b>14.5 Environmental hazards:</b>	Product contains environmentally hazardous substances: bis[4-(2,3-epoxypropoxy)phenyl]propane
· Marine pollutant:	Yes
	Symbol (fish and tree)
· Special marking (ADR/RID/ADN):	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	30
· EMS Number:	F-E,S-E

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· Stowage Category	A
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· Transport/Additional information:	
· ADR/RID/ADN	5L
· Limited quantities (LQ)	Code: E1
· Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	D/E
· Remarks:	In packsize up to 450 liter exempt from ADR according ADR 2.2.3.1.5.
-----	
· IMDG	5L
· Limited quantities (LQ)	Code: E1
· Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Remarks:	In packaging up to 30 litres exempt according to IMDG 2.3.2.5.
· UN "Model Regulation":	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

### 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  
E2 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements  
200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements  
500 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.

· National regulations:

· Technical instructions (air):

Class	Share in %
NK	27.3

#### · 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  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.

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H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.

· 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.

Flammable liquids	On basis of test data
Skin corrosion/irritation Serious eye damage/eye irritation Skin sensitisation Specific target organ toxicity (repeated exposure) Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	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:  
· Contact:  
· Abbreviations and acronyms:

**Research and Development**

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RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer  
(Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

Skin Sens. 1: Skin sensitisation – Category 1

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Literature data and/or investigation reports are available through the manufacturer.

· Sources:  
· \* Data compared to the previous version altered.

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

### 1.1 Product identifier

- Trade name: IJMOPOX ZF PRIMER HARDENER
- Article number: 354
- UFI: CS33-009M-G00D-65N2

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

- Sector of Use
  - No further relevant information available.
  - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
  - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
  - SU19 Building and construction work
- Product category PC9a Coatings and paints, thinners, paint removers
- Process category
  - PROC19 Manual activities involving hand contact
  - PROC7 Industrial spraying
  - PROC10 Roller application or brushing
  - PROC11 Non industrial spraying
- Environmental release category
  - ERC5 Use at industrial site leading to inclusion into/onto article
  - ERC8c Widespread use leading to inclusion into/onto article (indoor)
  - ERC8f Widespread use leading to inclusion into/onto article (outdoor)
- Article category
  - AC13 Plastic articles
  - AC7 Metal articles
  - AC11 Wood articles
- Application of the substance / the mixture
  - See our technical datasheet for application details of this product.
  - Epoxy curing agent


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

- Manufacturer/Supplier: De IJssel Coatings BV, Centrumbaan 960, NL 2841 MH Moordrecht  
Tel: +31 182 372177, E-mail: [info@de-ijssel-coatings.nl](mailto:info@de-ijssel-coatings.nl)
- Further information obtainable from: Research and Development.
- 1.4 Emergency telephone number: De IJssel Coatings BV, Tel. +31 182 372177, E-mail: [safety@de-ijssel-coatings.nl](mailto:safety@de-ijssel-coatings.nl)  
Office hours: working days from 08:00 to 17:00 hrs.


## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture


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

 GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

 GHS08 health hazard

STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.

 GHS05 corrosion




Eye Dam. 1 H318 Causes serious eye damage.

 GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

### 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 GHS05 GHS08
- Signal word Danger
- Hazard-determining components of labelling: butan-1-ol  
xylene

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- Hazard statements
  - H226 Flammable liquid and vapour.
  - H315 Causes skin irritation.
  - H318 Causes serious eye damage.
  - H373 May cause damage to the hearing organs through prolonged or repeated exposure.
  - H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements
  - P101 If medical advice is needed, have product container or label at hand.
  - P102 Keep out of reach of children.
  - P103 Read carefully and follow all instructions.
  - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P310 Immediately call a POISON CENTER/doctor.
  - P362+P364 Take off contaminated clothing and wash it before reuse.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
  - Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures**

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

· Dangerous components:		
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 Reg.nr.: 01-2119484630-38	butan-1-ol ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	10 – 25%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	xylene ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10 – 25%
CAS: 90-72-2 EINECS: 202-013-9 Index number: 603-069-00-0 Reg.nr.: 01-2119560597-27	2,4,6-tris(dimethylaminomethyl)phenol ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	2.5 – 10%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35	ethylbenzene ⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332	2.5 – 10%
EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Koolwaterstoffen, C9, aromaten ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	2.5 – 10%

- 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. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.

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

No further relevant information available.

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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 or powder. Fight larger fires with alcohol resistant foam.
- 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.
- **5.3 Advice for firefighters**
- Protective equipment: Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.  
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:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralising agent.  
Dispose contaminated material as waste according to item 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** Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- Storage: No special requirements.
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Recommended storage temperature: 5 - 30 °C
- **7.3 Specific end use(s)** No further relevant information available.

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

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

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· Ingredients with limit values that require monitoring at the workplace:		
<b>1330-20-7 xylene</b>		
IOELV	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Skin	
<b>100-41-4 ethylbenzene</b>		
IOELV	Short-term value: 884 mg/m <sup>3</sup> , 200 ppm Long-term value: 442 mg/m <sup>3</sup> , 100 ppm Skin	
· DNEL (Derived No Effect Level) for workers		
<b>71-36-3 butan-1-ol</b>		
Inhalative	Long-term - local effects, worker	310 mg/m <sup>3</sup> (Worker)
<b>1330-20-7 xylene</b>		
Dermal	Long term - local effects, worker	180 µg/cm <sup>2</sup> (Worker)
Inhalative	Acute - systemic effects, worker	289 mg/m <sup>3</sup> (Worker)
	Acute - local effects, worker	289 mg/m <sup>3</sup> (Worker)
	Long-term - systemic effects, worker	77 mg/m <sup>3</sup> (Worker)
<b>90-72-2 2,4,6-tris(dimethylaminomethyl)phenol</b>		
Dermal	Long-term - systemic effects, worker	0.2 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, worker	0.31 mg/m <sup>3</sup> (Worker)
<b>Koolwaterstoffen, C9, aromaten</b>		
Dermal	Long-term - systemic effects, worker	25 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, worker	150 mg/m <sup>3</sup> (Worker)
· DNEL (Derived No Effect Level) for the general population		
<b>71-36-3 butan-1-ol</b>		
Oral	Long-term - systemic effects, general population	3.125 mg/kg bw/day (General population)
Inhalative	Long-term - local effects, general population	55 mg/m <sup>3</sup> (General population)
<b>1330-20-7 xylene</b>		
Oral	Long-term - systemic effects, general population	1.6 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	108 mg/kg bw/day (General population)
Inhalative	Acute - systemic effects, general population	174 mg/m <sup>3</sup> (General population)
	Acute - local effects, general population	174 mg/m <sup>3</sup> (General population)
	Long-term - systemic effects, general population	14.8 mg/m <sup>3</sup> (General population)
<b>Koolwaterstoffen, C9, aromaten</b>		
Oral	Long-term - systemic effects, general population	11 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	11 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects, general population	32 mg/m <sup>3</sup> (General population)
· PNEC (Predicted No Effect Concentration) values		
<b>71-36-3 butan-1-ol</b>		
Aquatic compartment - freshwater		0.082 mg/l (Freshwater)
Aquatic compartment - marine water		0.0082 mg/l (Marine water)
Aquatic compartment - water, intermittent releases		2.25 mg/l (Intermittent release water)
Aquatic compartment - sediment in freshwater		0.178 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water		0.0178 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil		0.015 mg/kg dw (Soil)
Sewage treatment plant		2476 mg/l (stp)
<b>1330-20-7 xylene</b>		
Aquatic compartment - freshwater		0.327 mg/l
Aquatic compartment - marine water		0.327 mg/l
Aquatic compartment - water, intermittent releases		0.327 mg/l
Aquatic compartment - sediment in freshwater		12.46 mg/kg sed dw
Aquatic compartment - sediment in marine water		12.46 mg/kg sed dw
Terrestrial compartment - soil		2.31 mg/kg dw

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Sewage treatment plant	6.58 mg/l
<b>90-72-2 2,4,6-tris(dimethylaminomethyl)phenol</b>	
Aquatic compartment - freshwater	0.084 mg/l (Freshwater)
Aquatic compartment - marine water	0.0084 mg/l (Marine water)
Aquatic compartment - water, intermittent releases	0.84 mg/l (Intermittent release water)
Sewage treatment plant	0.2 mg/l (stp)

- 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.
  - Immediately remove all soiled and contaminated clothing
  - Wash hands before breaks and at the end of work.
  - Store protective clothing separately.
  - Avoid contact with the skin.
  - Avoid contact with the eyes and skin.
- Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Protection of hands:
  - Protective gloves
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves
  - Nitrile rubber, NBR
  - 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.
  - Recommended thickness of the material:  $\geq 0.3$  mm
- 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 mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).
- 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, NBR
- Not suitable are gloves made of the following materials:
  - Leather gloves
  - Strong material gloves
- Eye protection:
  - Tightly sealed goggles

### SECTION 9: Physical and chemical properties

<b>· 9.1 Information on basic physical and chemical properties</b>	
· General Information	
· Appearance:	
Form:	Fluid
Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	116 – 118 °C
· Flash point:	30 °C (Pensky Martens, ASTM D93)
· Flammability (solid, gas):	Not applicable.

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· Ignition temperature:	340 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1.1 Vol %
Upper:	9.4 Vol %
· Vapour pressure at 20 °C:	6.7 hPa
· Density at 20 °C:	0.86 g/cm <sup>3</sup> (DIN 51757, ASTM D 1298)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic at 20 °C:	500 mPas (Brookfield, ASTM D1544)
Kinematic at 40 °C:	700 – 900 mm <sup>2</sup> /s
· Solvent content:	
Organic solvents:	41.3 %
VOC (2004/42/EC):	41.25 %
Solids content:	60.0 %
· <b>9.2 Other information</b>	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** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**\* SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

Components	Type	Value	Species
<b>ATE (Acute Toxicity Estimates)</b>			
Oral	LD50	2886 mg/kg	
Dermal	LD50	11429 mg/kg (Rabbit)	
<b>71-36-3 butan-1-ol</b>			
Oral	LD50	790 mg/kg (Rat)	
Dermal	LD50	3400 mg/kg (Rabbit)	
<b>1330-20-7 xylene</b>			
Oral	LD50	4300 mg/kg (Rat)	
Dermal	LD50	2000 mg/kg (Rabbit)	

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<b>100-41-4 ethylbenzene</b>		
Oral	LD50	3500 mg/kg (Rat)
Dermal	LD50	17800 mg/kg (Rabbit)
<ul style="list-style-type: none"> <li>· Primary irritant effect:</li> <li>· Skin corrosion/irritation Causes skin irritation.</li> <li>· Serious eye damage/irritation Causes serious eye damage.</li> <li>· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.</li> <li>· Additional toxicological information:</li> <li>· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)</li> <li>· Germ cell mutagenicity Based on available data, the classification criteria are not met.</li> <li>· Carcinogenicity Based on available data, the classification criteria are not met.</li> <li>· Reproductive toxicity Based on available data, the classification criteria are not met.</li> <li>· STOT-single exposure Based on available data, the classification criteria are not met.</li> <li>· STOT-repeated exposure May cause damage to the hearing organs through prolonged or repeated exposure.</li> <li>· Aspiration hazard Based on available data, the classification criteria are not met.</li> </ul>		

\* **SECTION 12: Ecological information**

<ul style="list-style-type: none"> <li>· <b>12.1 Toxicity</b></li> <li>· Aquatic toxicity: No further relevant information available.</li> </ul>			
· Type of test	Effective concentration	Method	Assessment
<b>ATE (Acute Toxicity Estimates)</b>			
Inhalative	LC50/4 h	46.3 mg/l	
<b>71-36-3 butan-1-ol</b>			
Inhalative	LC50/4 h	8000 mg/l (Rat)	
<ul style="list-style-type: none"> <li>· <b>12.2 Persistence and degradability</b> No further relevant information available.</li> <li>· <b>12.3 Bioaccumulative potential</b> No further relevant information available.</li> <li>· <b>12.4 Mobility in soil</b> No further relevant information available.</li> <li>· Ecotoxicological effects:</li> <li>· Remark: Harmful to fish</li> <li>· Additional ecological information:</li> <li>· General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms</li> <li>· <b>12.5 Results of PBT and vPvB assessment</b></li> <li>· PBT: Not applicable.</li> <li>· vPvB: Not applicable.</li> <li>· <b>12.6 Other adverse effects</b> No further relevant information available.</li> </ul>			

**SECTION 13: Disposal considerations**

<ul style="list-style-type: none"> <li>· <b>13.1 Waste treatment methods</b></li> <li>· Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.</li> </ul>	
· European waste catalogue	
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP14	Ecotoxic

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- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

**SECTION 14: Transport information**

· <b>14.1 UN-Number</b> · ADR/RID/ADN, IMDG, IATA	UN1263
· <b>14.2 UN proper shipping name</b> · ADR/RID/ADN · IMDG, IATA	1263 PAINT PAINT
· <b>14.3 Transport hazard class(es)</b> · ADR/RID/ADN · Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA · Class · Label	3 Flammable liquids. 3
· <b>14.4 Packing group</b> · ADR/RID/ADN, IMDG, IATA	III
· <b>14.5 Environmental hazards:</b> · Marine pollutant:	No
· <b>14.6 Special precautions for user</b> · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Warning: Flammable liquids. 30 F-E, <u>S</u> -E A
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· Transport/Additional information: · ADR/RID/ADN · Limited quantities (LQ) · Excepted quantities (EQ)  · Transport category · Tunnel restriction code · Remarks:	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 D/E In packsize up to 450 liter exempt from ADR according ADR 2.2.3.1.5.
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)  · Remarks:	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml In packaging up to 30 litres exempt according to IMDG 2.3.2.5.
· 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.
- Seveso category  
P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements  
5000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements  
50000 t

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- 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.

- National regulations:
- Technical instructions (air):

Class	Share in %
NK	41.3

- **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
  - H225 Highly flammable liquid and vapour.
  - H226 Flammable liquid and vapour.
  - H302 Harmful if swallowed.
  - H304 May be fatal if swallowed and enters airways.
  - H312 Harmful in contact with skin.
  - H315 Causes skin irritation.
  - H318 Causes serious eye damage.
  - H319 Causes serious eye irritation.
  - H332 Harmful if inhaled.
  - H335 May cause respiratory irritation.
  - H336 May cause drowsiness or dizziness.
  - H373 May cause damage to organs through prolonged or repeated exposure.
  - H411 Toxic to aquatic life with long lasting effects.
  - H412 Harmful to aquatic life with long lasting effects.

- 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.

Flammable liquids	On basis of test data
Skin corrosion/irritation Serious eye damage/eye irritation Specific target organ toxicity (repeated exposure) Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	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:
- Contact:
- Abbreviations and acronyms:

Research and Development  
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RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
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  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids – Category 2  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 4: Acute toxicity – Category 4

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Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3  
Literature data and/or investigation reports are available through the manufacturer.

- Sources:
- \* Data compared to the previous version altered.