

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

Printing date 28.03.2017

Version number 1

Revision: 28.03.2017

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

- **1.1 Product identifier**
- **Trade name: Zink-Ausbesserungsfarbe**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Touch up paint
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Fermit GmbH  
Zur Heide 4,  
D- 53560 Vettelschoß  
www.fermit.de
- **Informing department:**  
Tel.: +49 (0) 2645-2207  
Fax: +49 (0) 2645-3113  
Email: info@fermit.de
- **1.4 Emergency telephone number:** Tel.: +49 (0) 2645-2207

**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.



GHS07

 Acute Tox. 4      H332 Harmful if inhaled.  
 Skin Irrit. 2      H315 Causes skin irritation.  
 Eye Irrit. 2      H319 Causes serious eye irritation.  
 STOT SE 3      H335 May cause respiratory 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.

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**Hazard pictograms**


GHS02 GHS07 GHS08

**Signal word** Warning

**Hazard-determining components of labelling:**

xylene, mixed isomers, pure  
ethylbenzene  
Solvent naphtha (petroleum), light arom.

**Hazard statements**

H226 Flammable liquid and vapour.  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H373 May cause damage to the hearing organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

Contains 2-butanone oxime, Fatty acids, C6-19-branched, cobalt(2+) salts. 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 Chemical characterisation: Mixtures**

**Description:** Mixture of the substances listed below including additives not requiring identification.

**Dangerous components:**

CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-X	xylene, mixed isomers, pure ⚠ 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	25 - 50%
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CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 05-2116469901-38-X	ethylbenzene ⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332	≤10%
CAS: 7429-90-5 EINECS: 231-072-3 Reg.nr.: 01-211 952 9243-45-X	aluminium ⚠ Pyr. Sol. 1, H250; Water-react. 2, H261	≤10%
CAS: 64742-95-6 EINECS: 265-199-0 Reg.nr.: 01-2119486773-24-X	Solvent naphtha (petroleum), light arom. ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	<2.5%
CAS: 64742-48-9 EINECS: 265-150-3 Reg.nr.: 01-2119486659-16-X	Naphtha (petroleum), hydrotreated heavy ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304	0.1-<2.5%
CAS: 85203-81-2 EINECS: 286-272-3 Reg.nr.: 01-2119979093-30-X	Hexanoic acid, 2-ethyl-, zinc salt, basic ⚠ Repr. 2, H361; ⚠ Eye Irrit. 2, H319; Aquatic Chronic 3, H412	≤ 1.0%
CAS: 96-29-7 EINECS: 202-496-6 Reg.nr.: 01-2119539477-28-X	2-butanone oxime ⚠ Carc. 2, H351; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H312; Skin Sens. 1, H317	≤ 1.0%
CAS: 68409-81-4 EINECS: 270-066-5	Fatty acids, C6-19-branched, cobalt(2+) salts ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	≤ 1.0%
CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51-X	toluene ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	≤ 1.0%

· **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**

Instantly remove any clothing contaminated by the product.  
If symptoms occur or in case of doubt consult a doctor.

##### · **After inhalation**

Provide fresh air. Keep victims quiet and warm.  
In case of unsteady breathing or breathing arrest induce artificial respiration.

##### · **After skin contact**

Remove contaminated clothing.  
Instantly wash with water and soap and rinse thoroughly.  
Don't use solvents or thinners!

##### · **After eye contact**

Rinse opened eye for several minutes under running water.  
Remove contact lenses if possible.  
Seek immediate medical advice.

##### · **After swallowing**

Rinse mouth and immediately consult physician.  
Keep affected person calm.  
Avoid vomiting.

#### · **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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· **Information for doctor**

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** Water jet, alcohol-resistant foam, CO<sub>2</sub>, extinguishing powder.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Thick dark smoke occurs in case of fire.  
Inhalation of combustion gases may cause serious health hazards.
- **5.3 Advice for firefighters**
- **Protective equipment:** Put on breathing apparatus.
- **Additional information**  
Cool closed containers near by fire source with water.  
Collect contaminated fire fighting water separately. It must not enter drains. Provide sufficient fire fighting water retention.  
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 sources of ignition - No smoking.  
Avoid contact with eyes, skin and clothes.  
Ensure adequate ventilation
- **6.2 Environmental precautions:**  
Do not allow to enter drainage system, surface or ground water.  
Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, universal binders) and disposal in suitable containers.  
Clean preferably with cleaning agent; preferably don't use solvents.
- **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 information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Avoid the formation of inflammable and explosive solvent vapours in the air and prevent the maximum workplace concentration values from being exceeded.  
Wearing antistatic clothing including shoes is recommended.  
Avoid contact with eyes, skin and clothes.  
Do not inhale gases/vapours/aerosols.
- **Information about protection against explosions and fires:**  
Vapours are heavier than air and may travel long distances along ground, ignite and flash back to source.  
Fumes can combine with air to form an explosive mixture.  
Protect against electrostatic charges.  
Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**  
Store only in the original container.  
Keep container tightly closed.

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Keep container tightly closed and store upright to prevent any spill of product.

- **Information about storage in one common storage facility:**

Keep away from strong oxidizing, alkalis and acidic materials.

- **Further information about storage conditions:**

Storage between 15 and 30 °C.

Protect from heat and direct sunlight.

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

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**

WEL: workplace exposure limit

IOELV: Indicative Occupational Exposure Limit Values, workplace threshold value of the European Union

#### 1330-20-7 xylene, mixed isomers, pure

WEL (Great Britain)	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
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IOELV (European Union)	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Skin
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#### 100-41-4 ethylbenzene

WEL (Great Britain)	Short-term value: 552 mg/m <sup>3</sup> , 125 ppm Long-term value: 441 mg/m <sup>3</sup> , 100 ppm Sk
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IOELV (European Union)	Short-term value: 884 mg/m <sup>3</sup> , 200 ppm Long-term value: 442 mg/m <sup>3</sup> , 100 ppm Skin
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#### 108-88-3 toluene

WEL (Great Britain)	Short-term value: 384 mg/m <sup>3</sup> , 100 ppm Long-term value: 191 mg/m <sup>3</sup> , 50 ppm Sk
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- **DNELs**

#### 1330-20-7 xylene, mixed isomers, pure

Oral	DNEL (consumer, long-term, systemic)	1.6 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	180 mg/kg bw/day (human)
Inhalative	DNEL (consumer, long-term, systemic)	108 mg/kg bw/day (human)
	DNEL (worker, short-term, systemic)	289 mg/m <sup>3</sup> (human)
	DNEL (worker, long-term, systemic)	77 mg/m <sup>3</sup> (human)
	DNEL (consumer, short-term, systemic)	174 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, systemic)	14.8 mg/m <sup>3</sup> (human)
	DNEL (worker, short-term, local)	289 mg/m <sup>3</sup> (human)
	DNEL (consumer, short-term, local)	174 mg/m <sup>3</sup> (human)

- **PNECs**

#### 1330-20-7 xylene, mixed isomers, pure

PNEC aqua (freshwater)	0.327 mg/L (.)
PNEC aqua (marine water)	0.327 mg/L (.)
PNEC STP	6.58 mg/L (.)
PNEC soil	2.31 mg/kg soil dw (.)
PNEC sediment (freshwater)	12.46 mg/kg sedim. dw (.)

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PNEC sediment (marine water)	12.46 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	0.327 mg/L (.)

**Ingredients with biological limit values:**
**1330-20-7 xylene, mixed isomers, pure**

BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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· **Additional information:** The lists that were valid during the compilation were used as basis.

**8.2 Exposure controls**
**Personal protective equipment**
**General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Handle product only in sufficiently ventilated areas.

Be sure to clean skin thoroughly after work and before breaks.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

**Breathing equipment:**

Not necessary if room is well-ventilated.

Breathing apparatus approved for this purpose should be worn when solvent concentration exceeds the maximum workplace concentration values.

Filter Type A.

**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**

Fluorocarbon rubber (Viton)

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

**Penetration time of glove material**

In case of a layer thickness of 0.7 mm the penetration time is longer than 480 minutes.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**


Tightly sealed safety glasses.

**Body protection:**

Wear antistatic clothing made from natural fibres (cotton) or heat-resistant synthetic fibres.

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### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

Form:	Fluid
Colour:	Silver grey
Odour:	Characteristic
Odour threshold:	Not determined.

· pH-value: Not determined.

##### · Change in condition

Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined

· Flash point: 25 °C

· Inflammability (solid, gaseous) Not applicable.

· Ignition temperature: 450 °C

· Decomposition temperature: Not determined.

· Self-inflammability: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/steam mixtures is possible.

##### · Critical values for explosion:

Lower:	0.7 Vol %
Upper:	9.0 Vol %

· Vapour pressure at 20 °C: 4.5 mbar

Density at 20 °C	1.16 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.

##### · Solubility in / Miscibility with

Water: Not determined.

· Partition coefficient: n-octanol/water: Not determined.

##### · Viscosity:

dynamic:	Not determined.
kinematic at 20 °C:	75 s (DIN 53211/4)

· Solvent separation test < 3 % (ADR/RID)

##### · Solvent content:

Organic solvents:	51 %
VOC EU	654.0 g/l
VOC EU	65.40 %
· 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

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- **10.4 Conditions to avoid** All sources of ignition: heat, sparks, open flame, electrostatic discharges.
- **10.5 Incompatible materials:**  
To avoid exothermic reactions, keep away from strongly acid or alkaline materials and any oxidizing agents.
- **10.6 Hazardous decomposition products:**  
None in case of intended use and storage in compliance with instructions.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity**  
Harmful if inhaled.

- **LD/LC50 values that are relevant for classification:**

#### 1330-20-7 xylene, mixed isomers, pure

Oral	LD50	5251 mg/kg (rat) (EU Method B.1)
Dermal	LD50	> 4200 mg/kg (rabbit)
Inhalative	LC50	29 mg/l/4h (rat) (EU Method B.2)

#### 100-41-4 ethylbenzene

Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	17800 mg/kg (rabbit)

#### 64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
Inhalative	LC50	> 7.63 mg/l/4h (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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**  
May cause respiratory irritation.
- **STOT-repeated exposure**  
May cause damage to the hearing 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:**

#### 1330-20-7 xylene, mixed isomers, pure

EC50 (dynamic)	3.82 mg/l/48h (Daphnia magna)
LC50 (static)	2.6 mg/l/96h (Oncorhynchus mykiss) (OECD 203)
EC50 (static)	4.9 mg/l/72h (Pseudokirchneriella subcapitata) (OECD 201)

#### 100-41-4 ethylbenzene

EC50 (static)	1.8 mg/l/48h (Daphnia magna)
LC50	5.1 mg/l/96h (Menidia menidia)

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- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** There are no data available about the preparation.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to 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 bodies or sewage system.
- **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 of together with household garbage. Do not allow product to reach sewage system.  
The waste code numbers mentioned are recommendations based on the probable use of the product.

- **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

- **Uncleaned packagings:**
- **Recommendation:**  
Dispose of packaging according to regulations on the disposal of packagings.  
Non contaminated packagings can be used for recycling.  
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

### SECTION 14: Transport information

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | UN1263   |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul> | 1263 PAINT, special provision 640E<br>PAINT<br>Paint   |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>  | <div style="text-align: center;">  </div> |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> </ul>  | 3 (F1) Flammable liquids.  |

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· <b>Label</b>	3
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
· <b>EMS Number:</b>	F-E, <u>S</u> -E
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	D/E
· <b>UN "Model Regulation":</b>	UN 1263 PAINT, SPECIAL PROVISION 640E, 3, III

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
xylene, mixed isomers, pure ethylbenzene  
Solvent naphtha (petroleum), light arom.
- **Hazard statements**  
H226 Flammable liquid and vapour.  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

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

H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P235 Store in a well-ventilated place. Keep cool.

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

- **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, 48

- **National regulations**

- **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

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

## SECTION 16: Other information

These data are based on our present knowledge. However, they 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.

H250 Catches fire spontaneously if exposed to air.

H261 In contact with water releases flammable gases.

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.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H361d Suspected of damaging the unborn child.

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

H411 Toxic to aquatic life with long lasting effects.

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# Safety data sheet

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

Printing date 28.03.2017

Version number 1

Revision: 28.03.2017

### Trade name: Zink-Ausbesserungsfarbe

(Contd. from page 11)

H412 Harmful to aquatic life with long lasting effects.

• **Recommended restriction of use**

Respect restrictions according to annex XVII of regulation 1907/2006 no. 48 for toluene:  
Shall not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0,1 % by mass in adhesives and spray paints intended for sale to the general public.

• **Department issuing data specification sheet:**

This Material Safety Data Sheet has been drawn up in cooperation with:  
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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)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids – Category 2  
Flam. Liq. 3: Flammable liquids – Category 3  
Pyr. Sol. 1: Pyrophoric solids – Category 1  
Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2  
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  
Carc. 2: Carcinogenicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
Repr. 2: Reproductive toxicity – 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

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