

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

Printing date 14.03.2013

Version number 1

Revision: 14.03.2013

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

· **1.1 Product identifier**

· Trade name **Renitherm Primer EP 61, Komp. A**
Artikel-Nr.: RE-PRI.52001

· Article number: 002183 audax

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

No further relevant information available.

· Application of the substance / the preparation Primer

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

· **Manufacturer/Supplier:**

AUDAX-Keck GmbH
Weiherstr. 10
75365 Calw / Germany

Tel.: +49.7051.1625.0
Fax: +49.7051.1625.50

INFO: GL / R&D

Tel.: +49.7051.1625.0
Fax: +49.7051.1625.50
info@audax.de

SDB-/MSDS, e-mail:

· **1.4 Emergency telephone number:**

During normal opening times:

Responsible Department: GL / R&D

Tel.: 004970511625 0 Fax: 004970511625 50

poisoning information center Germany: daily 24h

Berlin 030-19240

Bonn 0228-19240

Erfurt 0361-730730

Göttingen 0551-19240

Freiburg 0761-19240

Homburg/Saar 06841 - 19240

Mainz 06131 - 19 240

München 089-19240

Nürnberg 0911-398 2451

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.



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.

STOT SE 3 H336 May cause drowsiness or dizziness.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Sensitising

R43: May cause sensitisation by skin contact.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

(Contd. on page 2)

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

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Revision: 14.03.2013

Trade name Renitherm Primer EP 61, Komp. A
Artikel-Nr.: RE-PRI.52001

(Contd. of page 1)

R10-67: *Flammable. Vapours may cause drowsiness and dizziness.*

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Has a narcotizing effect.

· **Classification system:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

· **2.2 Label elements**

· **Labelling according to EU guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· **Code letter and hazard designation of product:**

Xi Irritant

N Dangerous for the environment

· **Hazard-determining components of labelling:**

Epoxidharze (Bisphenol-A-Epichlorhydrin) 700 < MG < 1100

· **Risk phrases:**

10 Flammable.

43 May cause sensitisation by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

23 Do not breathe gas/fumes/vapour/spray.

24/25 Avoid contact with skin and eyes.

29 Do not empty into drains.

37 Wear suitable gloves.

51 Use only in well-ventilated areas.

57 Use appropriate container to avoid environmental contamination.

· **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 characterization: Mixtures**

· **Description:** based on epoxy resins (mol.wt. > 700), pigmented

· **Dangerous components:**

CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	<i>n-butyl acetate</i> R10-66-67 Flam. Liq. 3, H226; STOT SE 3, H336	20,24,9%
CAS: 7779-90-0 EINECS: 231-944-3 Index number: 030-011-00-6 Reg.nr.: 01-2119485044-40	<i>trizinc bis(orthophosphate)</i> N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	10-12.49%

(Contd. on page 3)

GB

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

Printing date 14.03.2013

Version number 1

Revision: 14.03.2013

Trade name Renitherm Primer EP 61, Komp. A
Artikel-Nr.: RE-PRI.52001

(Contd. of page 2)

CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8	Epoxidharze (Bisphenol-A-Epichlorhydrin) 700 < MG <1100 ☒ Xi R36/38; ☒ Xi R43 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	10-12.49%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32 01-2119486136-34 01-2119555267-33	xylene, mixed isomers ☒ Xn R20/21; ☒ Xi R38 R10 ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	5.0-9.99%
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7 Reg.nr.: 01-2119463881-32	zinc oxide ☒ N R50/53 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5-4.99%
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3 Reg.nr.: 02-2119457435-35	1-methoxypropan-2-ol R10-67 ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	1.0-2.49%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35	ethylbenzene ☒ Xn R20; ☒ F R11 ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 4, H332	1.0-2.49%
CAS: 64742-94-5 EINECS: 265-198-5 Index number: 649-424-00-3	Solvent naphtha (petroleum), heavy arom. ☒ Xn R65; ☒ N R51/53 R66-67 ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	0.1-0.49%
CAS: 68647-95-0	Fettsäuren, C18-unges., Dimere, Verbindungen mit Kokosalkylamin ☒ Xi R38; ☒ Xi R43 R52/53 ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	0.1-0.49%

· **SVHC**

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

- NONE

· **Additional information** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**· **General information** Take affected persons out of danger area and instruct to lie down.· **After inhalation**

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact** Instantly wash with water and soap and rinse thoroughly.· **After eye contact** Rinse opened eye for several minutes under running water.· **After swallowing**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

· **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.

GB

(Contd. on page 4)

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

Printing date 14.03.2013

Version number 1

Revision: 14.03.2013

Trade name Renitherm Primer EP 61, Komp. A
Artikel-Nr.: RE-PRI.52001

(Contd. of page 3)

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, sand, extinguishing powder. Do not use water.
Alcohol-resistant foam
- **For safety reasons unsuitable extinguishing agents**
Water.
Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Can be released in case of fire
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**
Cool endangered containers with water spray jet.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
Wear protective clothing.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or water bodies.
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, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **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**
Keep containers tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** 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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class**
LGK VCI/D
3

(Contd. on page 5)

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

Printing date 14.03.2013

Version number 1

Revision: 14.03.2013

Trade name Renitherm Primer EP 61, Komp. A
Artikel-Nr.: RE-PRI.52001

(Contd. of page 4)

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

SECTION 8: Exposure controls/personal protection

· 8.1 *Control parameters*· *Components with critical values that require monitoring at the workplace:***123-86-4 n-butyl acetate**

WEL (Great Britain)	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
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1330-20-7 xylene, mixed isomers

WEL (Great Britain)	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
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IOELV (European Union)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm
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107-98-2 1-methoxypropan-2-ol

WEL (Great Britain)	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm Sk
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IOELV (European Union)	Short-term value: 568 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
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100-41-4 ethylbenzene

WEL (Great Britain)	Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 100 ppm Sk
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IOELV (European Union)	Short-term value: 884 mg/m ³ , 200 ppm Long-term value: 442 mg/m ³ , 100 ppm
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· *DNELs***123-86-4 n-butyl acetate**

Inhalative	DNEL	480 mg/m ³ (worker long time) 960 mg/m ³ (worker short time) 102 mg/m ³ (consumer long time) 860 mg/m ³ (consumer short time)
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7779-90-0 trizinc bis(orthophosphate)

Inhalative	DNEL	1 mg/m ³ (worker long time)
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1330-20-7 xylene, mixed isomers

Oral	DNEL	1.6 mg/kg bw/d (consumer long time)
Dermal	DNEL	180 mg/kg bw/d (worker long time) 108 mg/kg bw/d (consumer long time)
Inhalative	DNEL	289 mg/m ³ (worker long time) 14.8 mg/m ³ (consumer long time) 174 mg/m ³ (consumer short time)

1314-13-2 zinc oxide

Oral	DNEL	0.83 mg/kg bw/d (consumer long time)
Dermal	DNEL	83 mg/kg bw/d (worker long time) 83 mg/kg bw/d (consumer long time)
Inhalative	DNEL	5 mg/m ³ (worker long time) 2.5 mg/m ³ (consumer long time)

(Contd. on page 6)

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

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Version number 1

Revision: 14.03.2013

Trade name Renitherm Primer EP 61, Komp. A
Artikel-Nr.: RE-PRI.52001

(Contd. of page 5)

107-98-2 1-methoxypropan-2-ol

Dermal	DNEL	50.6 mg/kg bw/d (worker long time)
Inhalative	DNEL	369 mg/m ³ (worker long time)

100-41-4 ethylbenzene

Dermal	DNEL	180 mg/kg bw/d (worker long time)
		108 mg/kg bw/d (consumer long time)
Inhalative	DNEL	77 mg/m ³ (worker long time)
		289 mg/m ³ (worker short time)
		174 mg/m ³ (consumer short time)

· **PNECs****123-86-4 n-butyl acetate**

PNEC	0.981 mg/L (sediment fresh water)
	0.0981 mg/L (sediment sea water)
	35.6 mg/L (sewage)
	0.018 mg/L (sea water)
	0.18 mg/L (fresh water)

7779-90-0 trizinc bis(orthophosphate)

PNEC	235.6 mg/L (sediment fresh water)
	113 mg/L (sediment sea water)
	5.2 mg/L (sewage)
	6.1 mg/L (sea water)
	20.6 mg/L (fresh water)

1330-20-7 xylene, mixed isomers

PNEC	12.46 mg/L (sediment fresh water)
	12.46 mg/L (sediment sea water)
	6.58 mg/L (sewage)
	0.327 mg/L (sea water)
	0.327 mg/L (fresh water)

1314-13-2 zinc oxide

PNEC	235.6 mg/L (sediment fresh water)
	113 mg/L (sediment sea water)
	0.0061 mg/L (sea water)
	0.0206 mg/L (fresh water)

107-98-2 1-methoxypropan-2-ol

PNEC	41.6 mg/L (sediment fresh water)
	4.16 mg/L (sediment sea water)
	10 mg/L (fresh water)

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

BMGV (Great Britain)	650 mmol/mol creatinine
	Medium: urine
	Sampling time: post shift
	Parameter: methyl hippuric acid

· **Additional information:** The lists that were valid during the compilation were used as basis.

(Contd. on page 7)

GB

Safety data sheet
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Trade name Renitherm Primer EP 61, Komp. A
Artikel-Nr.: RE-PRI.52001

(Contd. of page 6)

- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures should be adhered to in handling the chemicals.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
- **Breathing equipment:**



Only during spraying without adequate removal by suction.

- **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
To avoid skin problems reduce the wearing of gloves to the required minimum.
Avoid direct contact with the chemical/ the product/ the preparation by organizational measures.

- **Material of gloves**

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Recommended thickness of the material:

≥ 0,6 mm

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**

Value for the permeation: Level ≥

6

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses recommended during refilling.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	According to product specification
Smell:	Characteristic

(Contd. on page 8)

GB

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

Printing date 14.03.2013

Version number 1

Revision: 14.03.2013

Trade name Renitherm Primer EP 61, Komp. A
Artikel-Nr.: RE-PRI.52001

(Contd. of page 7)

· Odour threshold:	<i>Not determined.</i>
· pH-value:	<i>Not applicable</i>
· Change in condition	
Melting point/Melting range:	<i>Not determined</i>
Boiling point/Boiling range:	<i>124 °C</i>
· Flash point:	<i>27 °C</i>
· Inflammability (solid, gaseous)	<i>Not applicable.</i>
· Ignition temperature:	<i>370 °C</i>
· Decomposition temperature:	<i>Not determined</i>
· Self-inflammability:	<i>Product is not selfigniting.</i>
· Danger of explosion:	<i>Product is not explosive. However, formation of explosive steam/air mixtures is possible.</i>
· Critical values for explosion:	
Lower:	<i>1.0 Vol %</i>
Upper:	<i>11.5 Vol %</i>
· Oxidizing properties	<i>Not applicable</i>
· Vapor pressure at 20 °C:	<i>13 hPa</i>
· Density at 20 °C	<i>1.51 g/cm³</i>
· Relative density	<i>Not determined.</i>
· Vapour density	<i>Not determined</i>
· Evaporation rate	<i>Not determined.</i>
· Solubility in / Miscibility with	
Water:	<i>Not miscible or difficult to mix</i>
· Partition coefficient (n-octanol/water):	<i>Not determined</i>
· Viscosity:	
dynamic:	<i>Not determined.</i>
kinematic at 20 °C:	<i>33 s (ISO 6 mm) divergent determination acc. DIN 53211/6 (in 6mm beaker)</i>
· Solvent content:	
Organic solvents:	<i>32.1 %</i>
Water:	<i>0.0 %</i>
Solids content: (calculated)	<i>67.8 %</i>
· 9.2 Other information	<i>No further relevant information available.</i>

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **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:** *None*

GB

(Contd. on page 9)

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

Printing date 14.03.2013

Version number 1

Revision: 14.03.2013

Trade name Renitherm Primer EP 61, Komp. A
Artikel-Nr.: RE-PRI.52001

(Contd. of page 8)

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:

- LD/LC50 values that are relevant for classification:

123-86-4 n-butyl acetate

Oral	LD50	14000 mg/kg (rat)
Dermal	LD50	>17000 mg/kg (kan)
Inhalative	LC50/4 h	>21 mg/L (rat)

7779-90-0 trizinc bis(orthophosphate)

Oral	LD50	>5000 mg/kg (rat)
Inhalative	LC50/4 h	5.7 mg/L (rat)

25068-38-6 Epoxidharze (Bisphenol-A-Epichlorhydrin) 700 < MG <1100

Oral	LD50	>2000 mg/kg (rat)
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1330-20-7 xylene, mixed isomers

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rbt)
Inhalative	LC50/4 h	>20 mg/L (rat)

1314-13-2 zinc oxide

Oral	LD50	>5000 mg/kg (rat)
Inhalative	LC50/4 h	>5.7 mg/L (rat)

107-98-2 1-methoxypropan-2-ol

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	13500 mg/kg (rbt)
Inhalative	LC50/4 h	>6 mg/L (rat)

100-41-4 ethylbenzene

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

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritant effect.
- Sensitization: Sensitization possible by skin contact.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

123-86-4 n-butyl acetate

EC50/48h	44 mg/L (Daphnia magna)
EC50/72h	675 mg/L (Pseudokirchneriella subcapitata)
LC50/96h	18 mg/L (Piscis)
NOEC(21d)	23 mg/L (Daphnia magna)

7779-90-0 trizinc bis(orthophosphate)

EC50/48h (static)	<1 mg/L (Daphnia magna)
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(Contd. on page 10)

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

Printing date 14.03.2013

Version number 1

Revision: 14.03.2013

Trade name Renitherm Primer EP 61, Komp. A
Artikel-Nr.: RE-PRI.52001

(Contd. of page 9)

EC50/72h (static)	<1 mg/L (Pseudokirchneriella subcapitata)
LC50/96h (static)	<1 mg/L (Piscis)
25068-38-6 Epoxidharze (Bisphenol-A-Epichlorhydrin) 700 < MG <1100	
EC50/48h	>100 mg/L (Daphnia magna)
EC50/96h	>100 mg/L (Pseudokirchneriella subcapitata)
LC50/96h	>100 mg/L (Piscis)
1330-20-7 xylene, mixed isomers	
EC50/24h	10<x<100 mg/L (Daphnia magna)
LC50/48h	8.5 mg/L (Crustacea)
LC50/96h	1<x<10 mg/L (Piscis)
1314-13-2 zinc oxide	
EC50/48h	>1000 mg/L (Daphnia magna)
107-98-2 1-methoxypropan-2-ol	
EC50/48h	>100 mg/L (Pseudokirchneriella subcapitata)
	>500 mg/L (Daphnia magna)
EC50/96h	>100 mg/L (Daphnia magna)
IC50/72h	>1000 mg/L (Pseudokirchneriella subcapitata)
LC50/96h (static)	>4600 mg/L (Leuciscus idus)
	>100 mg/L (Piscis)
100-41-4 ethylbenzene	
EC50/48h	2.97 mg/L (Daphnia magna)
LC50/96h	4.2 mg/L (Oncorhynchus mykiss)
	10<x<100 mg/L (Piscis)

- **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.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.
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 of together with household garbage. Do not allow product to reach sewage system.
Hand over to disposers of hazardous waste.

- **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
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(Contd. on page 11)

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

Printing date 14.03.2013

Version number 1

Revision: 14.03.2013

Trade name Renitherm Primer EP 61, Komp. A
Artikel-Nr.: RE-PRI.52001

(Contd. of page 10)

08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances

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

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA** UN1263

· **14.2 UN proper shipping name**

· **ADR** 1263 PAINT, ENVIRONMENTALLY HAZARDOUS

· **IMDG** PAINT, MARINE POLLUTANT

· **IATA** PAINT

· **14.3 Transport hazard class(es)**

· **ADR, IMDG**



· **Class** 3 Flammable liquids.

· **Label** 3

· **IATA**



· **Class** 3 Flammable liquids.

· **Label** 3

· **14.4 Packing group**

· **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:** Product contains environmentally hazardous substances:
Zincphosphate, zinc oxide

· **Marine pollutant:** Yes
Symbol (fish and tree)

· **Special marking (ADR):** Symbol (fish and tree)

· **14.6 Special precautions for user** Warning: Flammable liquids.

· **Kemler Number:** 30

· **EMS Number:** F-E,S-E

· **Segregation groups** N/A

· **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)** 5L

· **Transport category** 3

· **Tunnel restriction code** D/E

(Contd. on page 12)

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

Printing date 14.03.2013

Version number 1

Revision: 14.03.2013

Trade name Renitherm Primer EP 61, Komp. A
Artikel-Nr.: RE-PRI.52001

(Contd. of page 11)

· **Remarks:**

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· **IMDG**· **Remarks:**· **UN "Model Regulation":**

UN1263, PAINT, ENVIRONMENTALLY HAZARDOUS, 3,
III

SECTION 15: Regulatory information

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

· **National regulations**

· **Other regulations, limitations and prohibitive regulations**

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

None of the ingredients is listed.

· **VOC-EU (1999/13/EG):** 32.12 %

· **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.

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.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

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.

H412 Harmful to aquatic life with long lasting effects.

R10 Flammable.

R11 Highly flammable.

R20 Harmful by inhalation.

R20/21 Harmful by inhalation and in contact with skin.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful; may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

· **Department issuing data specification sheet:** Responsible Department: GL / R&D

· **Abbreviations and acronyms:**

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

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

(Contd. on page 13)

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(Contd. of page 12)

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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 Harmonized System of Classification and Labelling of Chemicals

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

GB