

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.05.2019

Version number 3

Revision: 22.05.2019

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

### 1.1 Product identifier

- Trade name: **Rust Primer**
- Article number: 90201, 90202, 90203, 90204, 90208, 90209

### 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

Priming

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

- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH  
Lechstrasse 28  
D 90451 Nürnberg
- Tel. +49(0)911-642960  
Fax. +49(0)911-644456  
e-mail info@akemi.de

### Further information obtainable from:

Laboratory

### 1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH  
Tel. +49(0)911-64296-59  
Reachable during the following office hours:  
Monday – Thursday from 07:30 a.m. to 16:30 p.m.  
Friday from 07:30 a.m. to 13:30 p.m.  
+44 (171) 635 91 91  
National Poison Inform. Centre  
Medical Toxicology Unit  
Avalonley Road  
London SE14 5ER

## 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 central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.



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.

- Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Store in a well-ventilated place. Keep cool.

• Storage:

### • 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:

xylene  
cobalt(II) 2-ethylhexanoate  
2-butanone oxime

• Hazard statements

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.  
H411 Toxic 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 label before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe mist/vapours/spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves / eye 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.  
P314 Get medical advice/attention if you feel unwell.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P403+P235 Store in a well-ventilated place. Keep cool.  
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.

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· <u>Dangerous components:</u>		
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119555267-33 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	12.5-25%
CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4 Reg.nr.: 01-2119486773-24 01-2119455851-35	Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H335-H336	12.5-25%
CAS: 7779-90-0 EINECS: 231-944-3 Index number: 030-011-00-6 Reg.nr.: 01-2119485044-40-0000	trizinc bis(orthophosphate) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1-5%
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 Reg.nr.: 01-2119484630-38	butanol Flam. Liq. 3, H226 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	1-5%
CAS: 149-57-5 EINECS: 205-743-6 Index number: 607-230-00-6 Reg.nr.: 01-2119488942-23-xxxx	2-ethylhexanoic acid Repr. 2, H361d	1-5%
CAS: 64742-48-9 EINECS: 265-150-3 Index number: 649-327-00-6 Reg.nr.: 01-2119463258-33	Naphtha (petroleum), hydrotreated heavy Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336	1-5%
CAS: 85203-81-2 EINECS: 286-272-3 Reg.nr.: 01-2119979093-30	Hexansäure, 2-Ethyl-, Zinksalz, basisch Repr. 2, H361d Eye Irrit. 2, H319 Aquatic Chronic 3, H412	<1%
CAS: 136-51-6 EINECS: 205-249-0	calcium bis(2-ethylhexanoate) Repr. 2, H361 Eye Dam. 1, H318	<1%
CAS: 136-52-7 EINECS: 205-250-6 Reg.nr.: 01-2119524678-29-xxxx	cobalt(II) 2-ethylhexanoate Repr. 2, H361f Aquatic Acute 1, H400 Eye Irrit. 2, H319; Skin Sens. 1A, H317 Aquatic Chronic 3, H412	<1%
CAS: 96-29-7 EINECS: 202-496-6 Index number: 616-014-00-0 Reg.nr.: 01-2119539477-28-xxx	2-butanone oxime Carc. 2, H351 Eye Dam. 1, H318 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Sens. 1, H317	<1%

· Additional information:

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

**SECTION 4: First aid measures**· **4.1 Description of first aid measures**· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Immediately remove any clothing soiled by the product.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

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

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- After skin contact: Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.  
A person vomiting while laying on their back should be turned onto their side.
- **4.2 Most important symptoms and effects, both acute and delayed**
  - Headache
  - Dizziness
  - Dizziness
- **4.3 Indication of any immediate medical attention and special treatment needed**
  - No further relevant information available.

#### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
  - Formation of toxic gases is possible during heating or in case of fire.
  - In case of fire, the following can be released:
  - Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- Protective equipment:
  - Wear self-contained respiratory protective device.
  - Do not inhale explosion gases or combustion gases.
- Additional information
  - Cool endangered receptacles with water spray.
  - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

#### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Ensure adequate ventilation
  - Keep away from ignition sources.
  - 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).
  - Ensure adequate ventilation.
  - Dispose contaminated material as waste according to item 13.
  - 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 disposal information.

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**SECTION 7: Handling and storage**

• **7.1 Precautions for safe handling**

Keep receptacles tightly sealed.  
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.

• **7.2 Conditions for safe storage, including any incompatibilities**

• **Storage:**

• **Requirements to be met by storerooms and receptacles:**

Store in a cool location.  
Store only in the original receptacle.

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

Store away from foodstuffs.

• **Further information about storage conditions:**

Keep container tightly sealed.

• **7.3 Specific end use(s)**

No further relevant information available.

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

• **Additional information about design of technical facilities:**

No further data; see item 7.

• **8.1 Control parameters**

• **Ingredients with limit values that require monitoring at the workplace:**

**71-36-3 butanol**

WEL Short-term value: 154 mg/m<sup>3</sup>, 50 ppm  
Sk

**136-52-7 cobalt(II) 2-ethylhexanoate**

WEL Long-term value: 0.1 mg/m<sup>3</sup>  
as Co; Carc, Sen

• **DNELs**

**1330-20-7 xylene**

Oral	DNEL (Langzeit-wiederholt)	1.6 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	180 mg/kg bw/day (ARB)
		108 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	289 mg/m <sup>3</sup> Air (ARB)
		174 mg/m <sup>3</sup> Air (BEV)
	DNEL (Langzeit-wiederholt)	77 mg/m <sup>3</sup> Air (ARB)
		14.8 mg/m <sup>3</sup> Air (BEV)

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

Oral	DNEL (Langzeit-wiederholt)	11 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	25 mg/kg bw/day (ARB)
		11 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	150 mg/m <sup>3</sup> Air (ARB)
		32 mg/m <sup>3</sup> Air (BEV)

**7779-90-0 trizinc bis(orthophosphate)**

Oral	DNEL (Langzeit-wiederholt)	0.83 mg/kg bw/day (BEV)
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Dermal	DNEL ( Langzeit-wiederholt)	83 mg/kg bw/day (ARB) 83 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	5 mg/m³ Air (ARB) 2.5 mg/m³ Air (BEV)

**71-36-3 butanol**

Oral	DNEL (Langzeit-wiederholt)	3.125 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	310 mg/m³ Air (ARB) 55 mg/m³ Air (BEV)

**64742-48-9 Naphtha (petroleum), hydrotreated heavy**

Oral	DNEL (Kurzzeit-akut)	125 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	300 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	125 mg/kg bw/day (BEV)
	DNEL ( Langzeit-wiederholt)	208 mg/kg bw/day (ARB) 125 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	900 mg/m³ Air (BEV)
	DNEL (Langzeit-wiederholt)	871 mg/m³ Air (ARB) 185 mg/m³ Air (BEV)

**136-52-7 cobalt(II) 2-ethylhexanoate**

Oral	DNEL (Langzeit-wiederholt)	0.0558 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	0.235 mg/m³ Air (ARB) 0.037 mg/m³ Air (BEV)

**96-29-7 2-butanone oxime**

Inhalative	DNEL (Langzeit-wiederholt)	3.33-9 mg/m³ Air (ARB)
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## · PNECs

**1330-20-7 xylene**

PNEC (wässrig)	6.58 mg/l (KA) 0.327 mg/l (MW) 0.327 mg/l (SW) 0.327 mg/l (WAS)
PNEC (fest)	2.31 mg/kg Trockengew (BO) 12.46 mg/kg Trockengew (MWS) 12.46 mg/kg Trockengew (SWS)

**71-36-3 butanol**

PNEC (wässrig)	2.476 mg/l (KA) 0.008 mg/l (MW) 0.082 mg/l (SW) 2.25 mg/l (WAS)
PNEC (fest)	0.015 mg/kg Trockengew (BO) 0.018 mg/kg Trockengew (MWS) 0.178 mg/kg Trockengew (SWS)

**136-52-7 cobalt(II) 2-ethylhexanoate**

PNEC (wässrig)	0.37 mg/l (KA) 0.00236 mg/l (MW) 0.00051 mg/l (SW)
PNEC (fest)	10.9 mg/kg Trockengew (BO) 9.5 mg/kg Trockengew (MWS) 9.5-11.2 mg/kg Trockengew (SWS)

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- Additional information: The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.  
 Use skin protection cream for skin protection.  
 Clean skin thoroughly immediately after handling the product.  
 Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.  
 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.  
 Short term filter device:  
 Filter A/P2
- Protection of hands:

Preventive skin protection by use of skin-protecting agents is recommended.  
 After use of gloves apply skin-cleaning agents and skin cosmetics.  
 The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.  
 This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).  
 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

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  $\leq$  6, 480 min  
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- For the permanent contact gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)  
 Vitoject (KCL, Art\_No. 890)
- As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR  
 Camatril (KCL, 730, 731, 732, 733)
- Not suitable are gloves made of the following materials:

Leather gloves  
 Strong material gloves

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· Eye protection:

Tightly sealed goggles

· Body protection:

Protective work clothing

## SECTION 9: Physical and chemical properties

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

#### · General Information

#### · Appearance:

Form:

Fluid

Colour:

According to product specification

#### · Odour:

Specific type

#### · pH-value:

Not applicable

#### · Change in condition

Melting point/freezing point:

Undetermined.

Initial boiling point and boiling range: 137 °C

#### · Flash point:

&gt; 23 °C

#### · Ignition temperature:

450 °C

#### · Auto-ignition temperature:

Product is not selfigniting.

#### · Explosive properties:

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

#### · Explosion limits:

Lower:

0.7 Vol %

Upper:

7.5 Vol %

#### · Vapour pressure at 20 °C:

5 hPa

#### · Density at 20 °C:

1.25 g/cm<sup>3</sup>

#### · Solubility in / Miscibility with water:

Not miscible or difficult to mix.

#### · Viscosity:

Dynamic:

Not determined.

Kinematic at 20 °C:

150 s (DIN 53211/4)

#### · Solvent content:

Organic solvents:

38 - 42 %

Solids content:

61.0 %

#### · 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.

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· **10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

**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:

**ATE (Acute Toxicity Estimates)**

Inhalative	LC50/4 h	>47.7 mg/l (rat)
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**1330-20-7 xylene**

Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rbt)
Inhalative	LC50/4h	29,000 mg/m3 (rat)
	LC50/4 h	21.7 mg/l (rat)
	LC50/48h	86 mg/l (Leuciscus idus)

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

Oral	LD50	>6,800 mg/kg (rat)
Dermal	LD50	>3,400 mg/kg (rabbit)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

**7779-90-0 trizinc bis(orthophosphate)**

Oral	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h	>5.7 mg/l (rat)

**71-36-3 butanol**

Oral	LD50	3,430 mg/kg (rabbit) (OECD 402)
		2,292 mg/kg (rat) (OECD 401)
Dermal	LD50	3,400 mg/kg (rbt)
Inhalative	LC50/4 h	8,000 mg/l (rat)

**64742-48-9 Naphtha (petroleum), hydrotreated heavy**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rabbit)
Inhalative	LC50/4h	4,951 mg/m3 (rat)
	LC50	>12 mg/l (rat)
	LC50/4 h	<5,000 mg/l (rat)

**96-29-7 2-butanone oxime**

Oral	LD50	2,326 mg/kg (rat)
Dermal	LD50	200-2,000 mg/kg (rat)
Inhalative	LC50/4 h	20 mg/l (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.

· 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 the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

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· Aspiration hazard

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

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

· Aquatic toxicity:

**1330-20-7 xylene**

EC50/24h	>175 mg/l (bacteria)
	165 mg/l (daphnia magna)
EC50	10 mg/l (bacteria)
IC50	96 mg/l (BES)
	1 mg/l (daphnia magna)
LC50	2 mg/l (piscis)
LC50/24h	32 mg/l (Iepomis macrochirus)
IC50/72h	2.2 mg/l (green alge)
	3.3 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	2.1-7.4 mg/l (daphnia magna)
EC50/72h	4.7 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	16.9 mg/l (carassius auratus)
	1.57 mg/l (Cyprinus carpio)
	3.77-13.5 mg/l (piscis)
	20.9 mg/l (Iepomis macrochirus)
	7.6 mg/l (Oncorhynchus mykiss)
	8.9-16 mg/l (pimephales promelas)

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

EC50/96h	19 mg/l (Desmodesmus subspicatus)
EC50/48h	3.2 mg/l (daphnia magna)
LL50/96h	9.2 mg/l (piscis)
EC50/72h	2.9 mg/l (Desmodesmus subspicatus)
	2.6 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	>100 mg/l (rainbow trout)

**7779-90-0 trizinc bis(orthophosphate)**

EC50/48h	28.2 mg/l (daphnia magna)
ErC50/72h	<0.3 mg/l (Desmodesmus subspicatus)
EC50/48h	<1.7 mg/l (daphnia magna)
EC50/72h	0.28 mg/l (Selenastrum capricornutum)
LC50/96h	<5.1 mg/l (Oncorhynchus mykiss)

**71-36-3 butanol**

EC50/96h	225 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC50	4,400 mg/l (pseudomonas putida)
IC50/72h	>500 mg/l (Desmodesmus subspicatus)
NOEC/21d	4.1 mg/l (daphnia magna)
EC50/48h	1,328 mg/l (daphnia magna) (OECD 202)
EC50/72h	8,500 mg/l (green alge)
LC50/96h	1,200 mg/l (Leuciscus idus)
	1,376 mg/l (pimephales promelas) (OECD 203)

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	>500 mg/l (Scenedesmus subspicatus)
<b>64742-48-9 Naphtha (petroleum), hydrotreated heavy</b>	
EC50	>1,000 mg/l (green alge) >1-<10 mg/l (bacteria) >1,000 mg/l (daphnia magna)
LC50	>1,000 mg/l (piscis)
EL0/48h	1,000 mg/l (daphnia magna)
EL50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata)
LL50/96h	>1,000 mg/l (Oncorhynchus mykiss)
	51 mg/l (rainbow trout)
NOELR/72h	100 mg/l (Pseudokirchneriella subcapitata)
<b>136-52-7 cobalt(II) 2-ethylhexanoate</b>	
IC50/72h	528 mg/l (green alge)
<b>96-29-7 2-butanone oxime</b>	
IC50/72h	6.1 mg/l (selenastrum capricornutum)
EC50/48h	201 mg/l (daphnia magna)
LC50/96h	>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:

Do not allow product to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

Danger to drinking water if even small quantities leak into the ground.

Toxic for aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

• **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

• Uncleaned packaging:

• Recommendation:

Disposal must be made according to official regulations.

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GB

# Safety data sheet

according to 1907/2006/EC, Article 31

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**SECTION 14: Transport information**• **14.1 UN-Number**

• ADR, IMDG, IATA

UN1263

• **14.2 UN proper shipping name**

• ADR

• IMDG

• IATA

1263 PAINT, ENVIRONMENTALLY HAZARDOUS  
PAINT (Solvent naphtha (petroleum), light arom., trizinc  
bis(orthophosphate)), MARINE POLLUTANT  
PAINT• **14.3 Transport hazard class(es)**

• ADR



• Class

• Label

3 (F1) Flammable liquids.

3

• IMDG



• Class

• Label

3 Flammable liquids.

3

• IATA



• Class

• Label

3 Flammable liquids.

3

• **14.4 Packing group**

• ADR, IMDG, IATA

III

• **14.5 Environmental hazards:**

• Marine pollutant:

• Special marking (ADR):

Product contains environmentally hazardous substances:

Yes

Symbol (fish and tree)

Symbol (fish and tree)

• **14.6 Special precautions for user**

• Danger code (Kemler):

• EMS Number:

• Stowage Category

Warning: Flammable liquids.

30

F-E, S-E

A

• **14.7 Transport in bulk according to Annex II of  
Marpol and the IBC Code**

Not applicable.

• Transport/Additional information:

• ADR

• Limited quantities (LQ)

• Excepted quantities (EQ)

5L

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

• Transport category

3

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• <u>Tunnel restriction code</u>	D/E
• <u>IMDG</u>	
• <u>Limited quantities (LQ)</u>	5L
• <u>Excepted quantities (EQ)</u>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
• <u>UN "Model Regulation":</u>	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
- National regulations:
- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- VOC EU 518.8 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

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

- Relevant phrases
  - H226 Flammable liquid and vapour.
  - 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.
  - H361f Suspected of damaging fertility.
  - H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.
  - 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.

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- Recommended restriction of use refer to Technical Data Sheet (TDS)
- Department issuing SDS: Laboratory
- Contact: Dieter Zimmermann  
Elke Hake  
Fon ++49 (0)911 64296-59  
@mail E.Hake@akemi.de
- 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 Organisation  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (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 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  
 vPvB: very Persistent and very Bioaccumulative  
 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  
 Skin Sens. 1A: Skin sensitisation – Category 1A  
 Carc. 2: Carcinogenicity – Category 2  
 Repr. 2: Reproductive toxicity – 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 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  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3  
 REACH directive 1907/2006/EC
- Sources
- \* Data compared to the previous version altered. Adaptation in accordance with REACH directive 1907/2006/EC