

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

Print date: 05.02.2018
Revision date: 05.02.2018
Valid from: 05.02.2018
Version: 3

Replace version: 2

KAIFINISH® Base Korrosionsschutz Grundlack/ anti-corrosion basecoat

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

1.1 Product identifier

Substances / Trade name / designation: Kaifinish Base Korrosionsschutz Grundlack / anti-corrosion basecoat.
Index No.: Not applicable.
EC No.: Not applicable.
CAS No.: Not applicable.
REACH Registration No.: Not applicable.

Other means of identification: Kaifinish Base Korrosionsschutz Grundlack/ anti-corrosion basecoat.

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

Uses advised against:

There is no information available for use is discouraged facing.

1.3 Details of the supplier of the safety data sheet

Supplier

Kaimann GmbH

Address

Hansastraße 2-5

D-33161 Hövelhof

Information contact

Kaimann GmbH - Technik

Phone / Fax / E-Mail (competent person)

+49 (0) 5257-9850-0 / +49 (0) 5257-9850-590/ E-Mail: msds@kaimann.de

1.4 Emergency telephone number

Advice Center for Poison Symptoms and Embryo Toxicology (Emergency Phone Line Berlin / Giftnotruf Berlin)
Tel.: +49 (0) 30 -1 92 40 · www.giftnotruf.de

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to (EC) No. 1272/2008

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Flam. Liq. 3 / H226 Flammable liquid and vapour.

Skin Irrit. 2 / H315 Causes skin irritation.

Eye Dam. 1 / H318 Causes serious eye damage.

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

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

2.2 Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



Signal word: Danger.

Hazard statements:

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P243	Take precautionary measures against static discharge.
P260	Do not breathe mist.
P260	Do not breathe steam.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves and protective clothing.
P280	Wear protective eye protection/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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 Information Centre or doctor.
P310	Immediately call a doctor.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use Extinguishing powder or sand to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to industrial incineration plant.

Contains:

propan-1-ol, xylene

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Supplemental hazard information (EU)

EUH208 Contains 2-butanone oxime. May produce an allergic reaction.

SECTION 3: Composition / information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Product description / chemical characterization

Description: alkyd resin, solvent-based.

Hazardous ingredients

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Substance name

xylene	REACH No.: 01-2119488216-32-xxxx; EC No.: 215-535-7; CAS No.: 1330-20-7; INDEX No.: 601-022-00-9; Percentage: 12.5 - 20% Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT SE 3 H335 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Aquatic Chronic 3 H412 / Flam. Liq. 3 H226
propan-1-ol	REACH No.: 01-2119486761-29-xxxx; EC No.: 200-746-9; CAS No.: 71-23-8; INDEX No.: 603-003-00-0; Percentage: 2.5 - 5% Flam. Liq. 2 H225 / Eye Dam. 1 H318 / STOT SE 3 H336
hydrocarbons, C9-C12, n-alkane, iso-alkane, cyclic, aromatic (2-25%)	REACH No.: 01-2119458049-33-xxxx; EC No.: 919-446-0; CAS No.: 64742-82-1; Percentage: 2.5 - 5% STOT SE 3 H336 / STOT RE 1 H372 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411 / Flam. Liq. 3 H226
ethylbenzene	REACH No.: 01-2119489370-35; EC No.: 202-849-4; CAS No.: 100-41-4; INDEX No.: 601-023-00-4; Percentage: 2.5 - 5% Acute Tox. 4 H332 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Aquatic Chronic 3 H412 / Flam. Liq. 2 H225

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trizinc bis(orthophosphate)

REACH No.: 01-2119485044-40-xxxx;

EC No.: 231-944-3; CAS No.: 7779-90-0; INDEX No.: 030-011-00-6;

Percentage: < 0,5%

Aquatic Acute 1 H400 / Aquatic Chronic 1 H410

2-butanone oxime

REACH No.: 01-2119539477-28-xxxx;

EC No.: 202-496-6; CAS No.: 96-29-7; INDEX No.: 616-014-00-0;

Percentage: < 0,5%

Carc. 2 H351 / Acute Tox. 4 H312 / Eye Dam. 1 H318 / Skin Sens. 1 H317

Additional information:

Full text of classification: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation:

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact:

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion:

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3 Mammalian cells (with metabolic activation)

No data available.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: alcohol resistant foam, carbon dioxide, powder, spray mist, (water).

Extinguishing media which must not be used for safety reasons: strong water jet.

5.2 Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3 Advice for firefighters

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Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous. Cool closed containers that are near the source of the fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

6.4 Reference to other sections

Observe protective provisions (see chapter 7 and 8).

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (BGR 132)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3 Specific end uses

Observe technical data sheet. Observe instructions for use.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

xylene (CAS No.: 1330-20-7)	WEL, TWA: 220 mg/m ³ ; 50 ppm WEL, STEL: 441 mg/m ³ ; 100 ppm BMGV, TWA: 650 mmol/mol creatinine Remark: methyl hippuric acid; urine; end of exposure or end of shift
ethylbenzene (CAS No.: 100-41-4)	WEL, TWA: 441 mg/m ³ ; 100 ppm WEL, STEL: 552 mg/m ³ ; 125 ppm Remark: May be absorbed through the skin.
propan-1-ol (CAS No.: 71-23-8)	WEL, TWA: 500 mg/m ³ ; 200 ppm WEL, STEL: 625 mg/m ³ ; 250 ppm

Additional information:

TWA: long-term occupational exposure limit value
STEL: short-term occupational exposure limit value
Ceiling: peak limitation

DNEL:

Workers

xylene (CAS No.: 1330-20-7)	Dermal: DNEL w 180 mg/kg bw/day (long-term, systemic) Inhalative: DNEL w 289 mg/m ³ (acute, local) DNEL w 289 mg/m ³ (acute, systemic) DNEL w 77 mg/m ³ (long-term, systemic)
hydrocarbons, C9-C12, n-alkane, iso- alkane, cyclic, aromatic (2-25%) (CAS No.: 64742-82-1)	Dermal: DNEL w 44 mg/kg bw/day (long-term, systemic) Inhalative: DNEL w 330 mg/m ³ (long-term, systemic)
propan-1-ol (CAS No.: 71-23-8)	Oral: DNEL w 61 mg/kg bw/day (long-term, repeated) Dermal: DNEL w 136 mg/kg bw/day (long-term, systemic) Inhalative: DNEL w 1723 mg/m ³ (acute, systemic) DNEL w 268 mg/m ³ (long-term, systemic)
trizinc bis(orthophosphate) (CAS No. 7779-90-0)	Dermal: DNEL w 83 mg/kg bw/day (long-term, systemic) Inhalative: DNEL w 5 mg/m ³ (long-term, systemic)

DNEL:

Consumer

xylene (CAS No.: 1330-20-7)	Oral: DNEL c 1,6 mg/kg bw/day (long-term, repeated) Dermal: DNEL c 108 mg/kg bw/day (long-term, systemic) Inhalative: DNEL c 174 mg/m ³ (acute, local) DNEL c 174 mg/m ³ (acute, systemic) DNEL c 14,8 mg/m ³ (long-term, systemic)
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hydrocarbons, C9-C12, n-alkane, iso-
alkane, cyclic, aromatic (2-25%)
(CAS No.: 64742-82-1)

Oral:
DNEL c 26 mg/kg bw/day (long-term, repeated)
Dermal:
DNEL c 26 mg/kg bw/day (long-term, systemic)
Inhalative:
DNEL c 71 mg/m³ (long-term, systemic)

propan-1-ol
(CAS No.: 71-23-8)

Oral:
DNEL c 61 mg/kg bw/day (long-term, repeated)
Dermal:
DNEL w 136 mg/kg bw/day (long-term, systemic)
Inhalative:
DNEL w 1036 mg/m³ (acute, systemic)
DNEL c 80 mg/m³ (long-term, systemic)

trizinc bis(orthophosphate)
(CAS No.: 7779-90-0)

Oral:
DNEL c 0,83 mg/kg bw/day (long-term, repeated)
Dermal:
DNEL w 83 mg/kg bw/day (long-term, systemic)
Inhalative:
DNEL w 2,54 mg/m³ (long-term, systemic)

PNEC:

xylene
(CAS No.: 1330-20-7)

PNEC water 0,327 mg/l (freshwater)
PNEC water 0,327 mg/l (marine water)
PNEC water 0,327 mg/l (intermittent release)
PNEC sediment 12,46 mg/kg (sediment, freshwater)
PNEC sediment 12,46 mg/kg (sediment, marine water)
PNEC soil 2,31 mg/kg (soil)
PNEC (STP) 6,58 mg/l (sewage treatment plant)

propan-1-ol
(CAS No.: 71-23-8)

PNEC water 10 mg/l (freshwater)
PNEC water 1 mg/l (marine water)
PNEC water 10 mg/l (intermittent release)
PNEC sediment 22,8 mg/kg (freshwater)
PNEC sediment 2,28 mg/kg
PNEC sediment 2,2 mg/kg (marine water)
PNEC (STP) 96 mg/l (sewage treatment plant)

trizinc bis(orthophosphate)
(CAS No.: 7779-90-0)

PNEC water 20,6 µg/L (freshwater)
Method: Zinc
PNEC water 6,1 µg/L (marine water)
Method: Zinc
PNEC sediment 117,8 mg/kg (sediment, freshwater)
Method: Zinc
PNEC sediment 56,5 mg/kg (sediment, marine water)
Method: Zinc
PNEC soil 35,6 mg/kg (soil)
Method: Zinc

8.2 Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls

Respiratory protection

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If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber). Thickness of the glove material > 0,4 mm; Breakthrough time (maximum wearing time) > 480 min. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374. Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	
Physical state:	liquid
Colour:	refer to label
Odour:	characteristic
Odour threshold:	not applicable
pH at 20 °C:	not applicable
Melting point/freezing point:	-50 °C
	Source: Polymer
Initial boiling point and boiling range:	78 °C
Flash point:	Source: Ethanol 26 °C
	Method: DIN 53213-1 (08/2002: replaced by EN ISO 1523)
Evaporation rate:	not applicable
Flammability (solid, gas):	
burning time (s):	not applicable
Upper/lower flammability or explosive limits:	
Lower explosion limit:	0,6 Vol-%
Upper explosion limit:	13,5 Vol-%
	Source: propan-1-ol
Vapour pressure at 20 °C:	3,4251 mbar
Vapour density:	not applicable
Relative density:	
Density at 20 °C:	1,45 g/cm ³
	Method: ISO 2811, part 1
Solubility(ies):	
Water solubility (g/L) at 20 °C:	insoluble
Partition coefficient: n-octanol/water:	see section 12
Auto-ignition temperature:	205 °C

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	Source: hydrocarbons, C9-C12, n-alkane, iso-alkane, cyclic, aromatic (2-25%)
Decomposition temperature:	not applicable
Viscosity at 20 °C:	65 s 6 mm Method: DIN 53211
Explosive properties:	not applicable
Oxidising properties:	not applicable

9.2 Other information

Solid content (%):	70,70 Wt %
solvent content:	
Organic solvents:	29 Wt %
Water:	0 Wt %
Solvent separation test (%):	< 3 Wt % (ADR/RID)

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3 Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4 Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

Classification according to Regulation (EC) No. 1272/2008 [CLP]
No data on preparation itself available.

11.1 Information on toxicological effects

Acute toxicity

ethylbenzene (CAS No.: 100-41-4)	Oral: LD50 oral 3500 – 4700 mg/kg (Rat) Inhalative (vapours): LC50 / 4 h 17,4 mg/l (Rat)
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xylene (CAS No.: 1330-20-7)	Oral: LD50 oral 3523 mg/kg (Rat) Dermal: LD50 dermal 12126 mg/kg (Rabbit) Inhalative (Gases): LC50 / 4 h 27,5 mg/l (Rat)
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hydrocarbons, C9-C12, n-alkane, iso-alkane, cyclic, aromatic (2-25%)
(CAS No.: 64742-82-1)

Oral:
LD50 oral > 15000 mg/kg (Rat), Method: OECD 401
Dermal:
LD50 dermal 3400 mg/kg (Rat), Method: OECD 402
Inhalative (vapours):
LC50 / 4 h 13,1 mg/l (Rat), Method: OECD 403

propan-1-ol
(CAS No.: 71-23-8)

Oral:
LD50 oral 1870 mg/kg (Rat)
Dermal:
LD50 dermal 4000 - 10000 mg/kg (Rabbit)
Inhalative (vapours):
LC50 / 4 h 33,8 mg/l (Rat)

trizinc bis(orthophosphate)
(CAS No.: 7779-90-0)

Oral:
LD50 oral > 5000 mg/kg (Rat)
Inhalative (dust and mist):
LC50 / 4 h > 5,7 mg/l (Rat)

2-butanone oxime
(CAS No.: 96-29-7)

Oral:
LD50 oral (Rat)
Dermal:
LD50 1000-1800 mg/kg (Rabbit)
Inhalative (vapours):
LC50 / 4 h 20 mg/l (Rat)

Skin corrosion/irritation; Serious eye damage/eye irritation

2-butanoneoxime: Eyes

Respiratory or skin sensitisation

2-butanone oxime: Skin

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

2-butanone oxime: Carcinogenicity

Specific target organ toxicity

hydrocarbons, C9-C12, n-alkane, iso-alkane, cyclic, aromatic (2-25%): Specific target organ toxicity (repeated exposure)

Aspiration hazard

ethylbenzene: Aspiration hazard

Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties

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The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

SECTION 12: Ecological information

Overall evaluation

Classification according to Regulation (EC) No. 1272/2008 [CLP].

There is no information available on the preparation itself.

Do not allow to enter into surface water or drains.

12.1 Toxicity

ethylbenzene (CAS No.: 100-41-4)	Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 4,2 mg/l (96 h), Method: OECD 203 Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 5,4 mg/l 0 - 4,6 mg/l (72 h), Method: OECD 201
xylene (CAS No.: 1330-20-7)	Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2,6 - 8,4 mg/l (96 h) Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1 mg/l 0 - 2,9 mg/l (48 h) Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 2,2 mg/l 0 - 4,9 mg/l (72 h)
hydrocarbons, C9-C12, n-alkane, iso-alkane, cyclic, aromatic (2-25%) (CAS No.: 64742-82-1)	Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 20 mg/l 0 - 30 mg/l (96 h), Method: OECD 203 Daphnia toxicity, EC50, Daphnia magna (Big water flea): 4,5 mg/l (48 h), Method: OECD 202 Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 4,6 mg/l (72 h)
propan-1-ol (CAS No.: 71-23-8)	Fish toxicity, LC50, Pimephales promelas (fathead minnow): 4555 mg/l (96 h) Daphnia toxicity, EC50, Daphnia magna (Big water flea): 3644 mg/l (48 h) Algae toxicity, ErC50, Scenedesmus quadricauda: 3100 mg/l (168 h) Bacteria toxicity, EC50, Pseudomonas putida: 2700 mg/l (16 h)
trizinc bis(orthophosphate) (CAS No. 7779-90-0)	Daphnia toxicity, EC50, Daphnia magna (Big water flea): 63,1 mg/l (48 h) Algae toxicity, ErC50, Selenastrum capricornutum: 0,8 mg/l (72 h)
2-butanone oxime (CAS No.: 96-29-7)	Daphnia toxicity, EC50, Daphnia pulex (water flea): 750 mg/l (48 h) Algae toxicity, ErC50, Algae: 83 mg/l (17 h) Fish toxicity, LC50, fish: 560 mg/l (48 h) Bacteria toxicity, EC50: 281 mg/l (17 h)

Long-term Ecotoxicity

hydrocarbons, C9-C12, n-alkane, iso-alkane, cyclic, aromatic (2 - 25%)	Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 0,097 mg/l (21 D) Daphnia toxicity, LOEC, Daphnia magna (Big water flea): 0,203 mg/l (21 D)
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12.2 Persistence and degradability

propan-1-ol
Biodegradation, OECD 301 F: 83 - 92 % (28 d);
Evaluation: Readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

Toxicological data are not available.

12.4 Mobility in soil

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Toxicological data are not available.

12.5 Results of PBT assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

080111: waste paint and varnish containing organic solvents or other dangerous substances.

Packaging

Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1 UN number

UN 1263

14.2 UN proper shipping name

Land transport (ADR/RID):

Paint

Sea transport (IMDG):

PAINT

Air transport (ICAO-TI / IATA-DGR):

Paint

14.3 Transport hazard class(es)

Land transport (ADR/RID):

No good of class 3

Sea transport (IMDG)

bei Gebinden > 450 l Klasse 3

for packages < 30 litres:

3

Air transport (ICAO-TI / IATA-DGR)

Transport in accordance with the provisions of paragraph 2.3.2.5 of the IMDG Code.

3

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID)

not applicable

Marine pollutant

not applicable

14.6 Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling: see parts 6 - 8.

Further information

Land transport (ADR/RID)

tunnel restriction code

00

for packages > 450 litres:

D/E

Sea transport (IMDG)

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EmS-No.

F-E, S-E

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU legislation

Directive 2010/75/EU on industrial emissions

VOC-value (in g/L): 423

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

VOC product category: (Cat. A/i); VOC limit value: 500 g/l

Maximum VOC content (g/L) of the product in a ready to use condition: 423

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations, restrictions and prohibition regulations

Other information

Additional information

0

VOC Switzerland (weight fraction in %): 29

15.2 Chemical Safety Assessment

For the following substances of this preparation a chemical safety assessment has been carried out:

xylene	REACH No.: 01-2119488216-32-xxxx
	EC No.: 215-535-7
	CAS No.: 1330-20-7
propan-1-ol	REACH No.: 01-2119486761-29-xxxx
	EC No.: 200-746-9
	CAS No.: 71-23-8
hydrocarbons, C9-C12, n-alkane, iso-alkane, cyclic, aromatic (2-25%)	REACH No.: 01-2119458049-33-xxxx
	EC No.: 919-446-0
	CAS No.: 64742-82-1
ethylbenzene	REACH No.: 01-2119489370-35
	EC No.: 202-849-4
	CAS No.: 100-41-4

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trizinc bis(orthophosphate)	REACH No.: 01-2119485044-40-XXXX
	EC No.: 231-944-3
	CAS No.: 7779-90-0
2-butanone oxime	REACH No.: 01-2119539477-28-xxxx
	EC No.: 202-496-6
	CAS No.: 96-29-7

SECTION 16: Other information

16.1 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)
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
BCF: Biological Concentration Factor
CAS: Chemical Abstracts Service (division of the American Chemical Society)
CMR: Cancerogenic-mutagenic-reproductive toxic
DNEL: Derived No-Effect Level
EAK: Europäischer Abfallkatalog
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
Eye Irrit.: Serious eye damage/eye irritation
Flam. Liq.: Flammable liquids
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOEC: No Observed Effect Concentration
NOEL: No Observed Effect Level
OEL: Occupational Exposure Limits
PBT: Persistent, bioaccumulative, toxic
PNEC: Predicted No-Effect Concentration (REACH)
Repr.: Reproductive toxicity
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
Skin Irrit.: Skin corrosion/irritation
Skin Sens.: Sensitisation – Skin
STOT: Specific target organ toxicity
STOT SE: Specific target organ toxicity - Single exposure
STOT RE: Specific target organ toxicity - Repeated exposure
SVHC: Substance of Very High Concern
vPvB: very Persistent, very Bioaccumulative

16.2 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008

Acute Tox. 4 / H312	Acute toxicity (dermal).	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative).	Harmful if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation.	Causes skin irritation.

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Eye Irrit. 2 / H319	Serious eye damage/eye irritation.	Causes serious eye irritation.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
STOT RE 2 / H373	Specific target organ toxicity (repeated exposure)	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Asp. Tox. 1 / H304	Aspiration hazard.	May be fatal if swallowed and enters airways.
Flam. Liq. 3 / H226	Flammable liquids.	Flammable liquid and vapour.
Flam. Liq. 2 / H225	Flammable liquids.	Highly flammable liquid and vapour.
Eye Dam. 1 / H318	Serious eye damage/eye irritation.	Causes serious eye damage.
STOT SE 3 / H336	Specific target organ toxicity (single exposure).	May cause drowsiness or dizziness.
STOT RE 1 / H372	Specific target organ toxicity (repeated exposure).	Causes damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment.	Toxic to aquatic life with long lasting effects.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment.	Harmful to aquatic life with long lasting effects.
Aquatic Chronic 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic life.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
Carc. 2 / H351	Carcinogenicity.	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Skin Sens. 1 / H317	Respiratory or skin sensitization.	May cause an allergic skin reaction.

Additional information

Classification according to Regulation (EC) No. 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.