

Safety Data Sheet

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

Print date: 06.06.2018
Revision date:
Valid from: 06.06.2018
Version: 2

KAIFINISH® Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

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

1.1 Product identifier

Substances / Trade name / designation: Kaifinish Cover Korrosionsschutz Decklack/ anti-corrosion topcoat
Index No.: Not applicable.
EC No.: Not applicable.
CAS No.: Not applicable.
REACH Registration No.: Not applicable.

Other means of identification: Kaifinish Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

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

+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

Safety Data Sheet

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

Print date: 06.06.2018
Revision date:
Valid from: 06.06.2018
Version: 2

KAIFINISH® Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

SECTION 2: Hazards identification

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

The 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 vapour.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves and protective clothing.
P280	Wear protective gloves and eye/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 POISON CENTER 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.

Hazard components for labeling:

propan-1-ol, xylene

Safety Data Sheet

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

Print date: 06.06.2018
Revision date:
Valid from: 06.06.2018
Version: 2

KAIFINISH® Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

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; Wt %: 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 / 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; Wt %: 5 – 10 % 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; Wt %: 2,5 – 5 % STOT SE 3 H336 / STOT RE 1 H372 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411 / Flam. Liq. 3 H226
hydrocarbons, C9-C13, n-alkane, iso-alkane, cyclic, aromatic (<2%)	REACH No. 01-2119463258-33; EC No. 919-857-5; CAS No. 64742-48-9; INDEX No. 649-327-00-6; Wt %: 1 - 2,5 % STOT SE 3 H336 / Asp. Tox. 1 H304 / Flam. Liq. 3 H226

Safety Data Sheet

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

Print date: 06.06.2018
Revision date:
Valid from: 06.06.2018
Version: 2

KAIFINISH® Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

ethylbenzene	REACH No. 02-2119752523-40-0000; EC No. 202-849-4; CAS No. 100-41-4; INDEX No. 601-023-00-4; Wt %: 1 - 2,5 % Acute Tox. 4 H332 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Aquatic Chronic 3 H412 / Flam. Liq. 2 H225
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; Wt %: < 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; Wt %: < 0,5 % Carc. 2 H351 / Acute Tox. 4 H312 / Eye Dam. 1 H318 / Skin Sens. 1 H317
oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine(2:1)	EC No. 251-846-4; CAS No. 34140-91-5; Wt %: < 0,5 % Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT RE 2 H373 / Aquatic Acute 1 H400 (M = 10) / Aquatic Chronic 2 H411

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.

Page: 4 / 16

The information supplied on this safety data sheet complies with our current level of knowledge and is not to be regarded as guaranteed attributes of the product.

Safety Data Sheet

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

Print date: 06.06.2018
Revision date:
Valid from: 06.06.2018
Version: 2

KAIFINISH® Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

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

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

Page: 5 / 16

The information supplied on this safety data sheet complies with our current level of knowledge and is not to be regarded as guaranteed attributes of the product.

Safety Data Sheet

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

Print date: 06.06.2018
Revision date:
Valid from: 06.06.2018
Version: 2

KAIFINISH® Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

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 (TRBS 2153)".

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

xylene, mixture of isomers (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
propan-1-ol (CAS No. 71-23-8)	WEL, TWA: 500 mg/m ³ ; 200 ppm WEL, STEL: 625 mg/m ³ ; 250 ppm
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.)

Additional information:

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

Derived no-effect level (DNELs):

Worker:

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-C13, n-alkane, iso- alkane, cyclic, aromatic (<2%) (CAS No. 64742-48-9)	Dermal: DNEL w 300 mg/kg (long-term, systemic) Inhalative: DNEL w 900 mg/m ³ (acute, 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)

Safety Data Sheet

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

Print date: 06.06.2018
Revision date:
Valid from: 06.06.2018
Version: 2

KAIFINISH® Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

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

Oral:
DNEL w 61 mg/kg bw/day (long-term, repeated)
Dermal:
DNEL w 81 mg/kg bw/day (long-term, systemic)
Inhalative:
DNEL w 1723 mg/m³ (acute, systemic)
DNEL w 268 mg/m³ (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/m³ (long-term, systemic)

Derived no-effect level (DNELs):

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/m³ (acute, local)
DNEL c 174 mg/m³ (acute, systemic)
DNEL c 14.8 mg/m³ (long-term, systemic)

hydrocarbons, C9-C13, n-alkane, iso-
alkane, cyclic, aromatic (<2%)
(CAS No. 64742-48-9)

Oral:
DNEL c 300 mg/kg (long-term, repeated)
Dermal:
DNEL c 300 mg/kg (long-term, repeated)
Inhalative:
DNEL c 900 mg/m³ (long-term, systemic)

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

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

Oral:
DNEL w 0.83 mg/kg bw/day (long-term, repeated)
Dermal:
DNEL c 83 mg/kg bw/day (long-term, systemic)
Inhalative:
DNEL w 2.54 mg/m³ (long-term, systemic)

Predicted no-effect concentration (PNEC):

Safety Data Sheet

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

Print date: 06.06.2018
Revision date:
Valid from: 06.06.2018
Version: 2

KAIFINISH® Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

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

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.

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

Safety Data Sheet

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

Print date: 06.06.2018
Revision date:
Valid from: 06.06.2018
Version: 2

KAIFINISH® Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

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
	Source: Ethanol
Flash point:	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:	3.5645 mbar
Vapour density:	not applicable
Relative density:	
Density at 20 °C:	1.42 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:	201 °C
	Source: hydrocarbons, C9-C13, n-alkane, iso-alkane, cyclic, aromatic (<2%
Decomposition temperature:	not applicable
Viscosity at 20 °C:	60 s 6 mm
	Method: DIN 53211
Explosive properties:	not applicable
Oxidising properties:	not applicable

9.2 Other information

Solid content (%):	71.19 Wt %
solvent content:	
Organic solvents:	28 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

Page: 9 / 16

The information supplied on this safety data sheet complies with our current level of knowledge and is not to be regarded as guaranteed attributes of the product.

Safety Data Sheet

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

Print date: 06.06.2018
Revision date:
Valid from: 06.06.2018
Version: 2

KAIFINISH® Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

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

LD/LC50 values that are relevant for classification

ethylbenzene	Oral: LD50 oral 3500 mg/kg 3500 - 4700 mg/kg (Rat) Inhalative (vapours): LC50 / 4 h: 17.4 mg/l (Rat)
xylene	Oral: LD50 oral 3523 mg/kg (Rat) Dermal: LD50 dermal 12126 mg/kg (Rabbit) Inhalative (Gases): LC50 / 4 h inhalative: 27.5 mg/l (Rat)
hydrocarbons, C9-C13, n-alkane, iso-alkane, cyclic, aromatic (<2%)	Oral: LD50 oral > 5000 mg/kg (Rat) Dermal: LD50 dermal > 5000 mg/kg (Rabbit) Inhalative (Gases): LC50 / 4 h inhalative: > 5000 mg/l (Rat)
hydrocarbons, C9-C12, n-alkane, iso-alkane, cyclic, aromatic (2-25%)	Oral: LD50 oral > 15000 mg/kg (Rat); Method: OECD 401 Dermal: LD50 dermal 3400 mg/kg (Rat); Method: OECD 402 Inhalative (Gases): LC50 / 4 h inhalative: 13.1 mg/l (Rat); Method: OECD 403
propan-1-ol	Oral: LD50 oral 1870 mg/kg (Rat) Dermal: LD50 dermal 4000 - 10000 mg/kg (Rabbit) Inhalative (vapours): LC50 / 4 h inhalative: 33.8 mg/l (Rat)
trizinc bis(orthophosphate)	Oral: LD50 oral > 5000 mg/kg (Rat) Inhalative (dust and mist): LC50 / 4 h inhalative: > 5,7 mg/l (Rat)

Safety Data Sheet

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

Print date: 06.06.2018
Revision date:
Valid from: 06.06.2018
Version: 2

KAIFINISH® Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

2-butanone oxime

Oral:
LD50 oral 930 mg/kg (Rat)
Dermal:
LD50 dermal 1000 - 1800 mg/kg (Rabbit)
Inhalative (vapours):
LC50 / 4 h inhalative: 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-C13, n-alkane, iso-alkane, cyclic, aromatic (<2%): Specific target organ toxicity (single exposure), drowsiness

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

Aspiration hazard

ethylbenzene: Aspiration hazard

hydrocarbons, C9-C13, n-alkane, iso-alkane, cyclic, aromatic (<2%): 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

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

Safety Data Sheet

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

Print date: 06.06.2018
Revision date:
Valid from: 06.06.2018
Version: 2

KAIFINISH® Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

ethylbenzene	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	Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2.6 – 8.4 mg/l (96 h) Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1.8 – 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%)	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	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)
triazine bis(orthophosphate)	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	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%): NOEC / 21 d: 0.097 mg/l (Daphnia magna, Big water flea)
LOEC / 21 d: 0.203 mg/l (Daphnia magna, Big water flea)

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

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

-

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.

Page: 12 / 16

The information supplied on this safety data sheet complies with our current level of knowledge and is not to be regarded as guaranteed attributes of the product.

Safety Data Sheet

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

Print date: 06.06.2018
Revision date:
Valid from: 06.06.2018
Version: 2

KAIFINISH® Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

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
for packages > 450 l Class 3
Sea transport (IMDG) 3
for packages < 30 litres: Transport in accordance with the provisions of
paragraph 2.3.2.5 of the IMDG Code.
Air transport (ICAO-TI / IATA-DGR): 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)

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): 409

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: 409

Safety Data Sheet

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

Print date: 06.06.2018
Revision date:
Valid from: 06.06.2018
Version: 2

KAIFINISH® Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

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 information

Further information

MAL-KODE: 3-3

VOC Switzerland (weight fraction in %): 28

15.2 Chemical Safety Assessment

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

xylene, mixture of isomers	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
hydrocarbons, C9-C13, n-alkane, iso-alkane, cyclic, aromatic (<2%)	REACH No. 01-2119463258-33
	EC No. 919-857-5
	CAS No. 64742-48-9
ethylbenzene	REACH No. 01-2119489370-35
	EC No. 202-849-4
	CAS No. 100-41-4
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

Safety Data Sheet

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

Print date: 06.06.2018
Revision date:
Valid from: 06.06.2018
Version: 2

KAIFINISH® Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

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: Biokonzentrationsfaktor
CAS: Chemical Abstracts Service (division of the American Chemical Society)
CMR: Kanzerogen-mutagen-reproduktionstoxisch
DNEL: Abgeleitetes Null-Effekt-Niveau
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; schwere Augenreizung
Flam. Liq.: Flammable liquids; entzündliche Flüssigkeit
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: Konzentration ohne beobachtbare Wirkung
NOE: Dosis ohne beobachtbare Wirkung

16.2 Full text of classification in section 3:

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.
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.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment.	Harmful to aquatic life with long lasting effects.
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 Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
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

Page: 15 / 16

The information supplied on this safety data sheet complies with our current level of knowledge and is not to be regarded as guaranteed attributes of the product.

Safety Data Sheet

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

Print date: 06.06.2018
Revision date:
Valid from: 06.06.2018
Version: 2

KAIFINISH® Cover Korrosionsschutz Decklack/ anti-corrosion topcoat

Skin Sens. 1 / H317 Respiratory or skin sensitization. other routes of exposure cause the hazard).
May cause an allergic skin reaction.

Further information

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

Weitere Informationen

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.
