

Safety Data Sheet

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

Print date: 12.07.2016
Revision date:
Valid from: 12.07.2016
Version: 1

KAIFINISH® Primer Haftvermittler

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

1.1 Product identifier

Substances / Trade name / designation: Kaifinish Primer Haftvermittler
Index No.: not applicable
EC No.: not applicable
CAS No.: not applicable
REACH Registration No.: not applicable

Other means of identification: Kaifinish Primer Haftvermittler

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

Relevant identified uses:

Primer, especially for corrosion protection.

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

Safety Data Sheet

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

Print date: 12.07.2016
Revision date:
Valid from: 12.07.2016
Version: 1

KAIFINISH® Primer Haftvermittler

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 Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
Aquatic Chronic 2 H411 Toxic 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: Warning

Contains:

Reactionproduct: Bisphenol-A-Epichlorhydrine MW700-1100
Solvent naphtha (petroleum), light arom.
1-methoxy-2-propanol

Hazard statements:

H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic 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.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves and protective clothing.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 Get medical advice/attention if you feel unwell.
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.
P391 Collect spillage.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to industrial incineration plant.

Safety Data Sheet

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

Print date: 12.07.2016
Revision date:
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Version: 1

KAIFINISH® Primer Haftvermittler

Supplemental hazard information (EU)

EUH208 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

Not applicable.
PBT: not applicable
vPvB: not applicable

SECTION 3: Composition / information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Product description / chemical characterization

Description: Polymer preparations and compounds

Hazardous ingredients

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

Substance name

1-methoxy-2-propanol	REACH No. 01-2119457435-35; EC No. 203-539-1; CAS No. 107-98-2; INDEX No. 603-064-00-3; Percentage: 25 – 50 % Flam. Liq. 3 H226; STOT SE 3 H336
solvent naphtha (petroleum), light arom.	REACH No. 01-2119455851-35-xxxx; EC No. 918-668-5; CAS No. 64742-95-6; Percentage: 20 – 25 % Flam. Liq. 3 H226; Asp. Tox. 1 H304; STOT SE 3 H335, STOT SE 3 H336; Aquatic Chronic 2 H411
Reactionsproduct: Bisphenol-A-Epichlorhydrine MW700-1100	EC No. 500-033-5; CAS No. 25068-38-6; Percentage: 2,5 – 5 % Skin Irrit. 2 H315; Eye Irrit. 2 H319; Skin Sens. 1 H317

Safety Data Sheet

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

Print date: 12.07.2016
Revision date:
Valid from: 12.07.2016
Version: 1

KAIFINISH® Primer Haftvermittler

xylene	REACH No. 01-2119488216-32-xxxx; EC No. 215-535-7; CAS No. 1330-20-7; INDEX No. 601-022-00-9; Percentage: 1 – 2,5 % Flam. Liq. 3 H226; Acute Tox. 4 H312; Acute Tox. 4 H332; Skin Irrit. 2 H315; Eye Irrit. 2 H319; Asp. Tox. 1 H304; STOT RE 2 H373; STOT SE 3 H335
n-butyl acetate	REACH No. 01-2119485493-29-xxxx; EC No. 204-658-1; CAS No. 123-86-4; INDEX No. 607-025-00-1; Percentage: 1 – 2,5 % Flam. Liq. 3 H226; STOT SE 3 H336
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

(Full text of R-, H- and EUH-phrases: 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 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Fire-fighting measures

Page: 4 / 16

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Safety Data Sheet

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

Print date: 12.07.2016
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KAIFINISH® Primer Haftvermittler

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

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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: 12.07.2016
Revision date:
Valid from: 12.07.2016
Version: 1

KAIFINISH® Primer Haftvermittler

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

xylene, mixture of isomers
(CAS No. 1330-20-7)
TRGS 900, AGW long-term: 440 mg/m³; 100 ppm
TRGS 900, AGW short-term: 880 mg/m³; 200 ppm
TRGS 903, BGW, long-term: 1,5 mg/L
Remark: xylene; blood; end of exposure or end of shift
TRGS 903, BGW, long-term: 2000 mg/L
Remark: methyl hippuric acid; urine; end of exposure or end of shift

1-methoxy-2-propanol
(CAS No. 107-98-2)
TRGS 900, AGW, long-term: 370 mg/m³; 100 ppm
TRGS 900, AGW, short-term: 740 mg/m³; 200 ppm
TRGS 903, BGW, long-term: 15 mg/L
Remark: 2-methoxypropanole; urine; end of exposure or end of shift

n-butyl acetate
(CAS-Nr. 123-86-4)
TRGS 900, AGW, long-term: 300 mg/m³; 62 ppm
TRGS 900, AGW, short-term: 600 mg/m³; 124 ppm

Derived no-effect level (DNELs) worker

1-methoxy-2-propanol
(CAS No. 107-98-2)
Dermal:
DNEL w 50,6 mg/kg bw/day (long-term, systemic)
Inhalative:
DNEL w 553,5 mg/m³ (acute, local)
DNEL w 369 mg/m³ (long-term, systemic)

n-butyl acetate
(CAS No. 123-86-4)
Dermal:
DNEL w 7 mg/kg bw/day (long-term, systemic)
Inhalative:
DNEL w 48 mg/m³ (long-term, systemic)

xylene
(CAS No. 1330-20-7)
Dermal:
DNEL w 180 mg/kg bw/day (long-term, systemic)
Inhalative:
DNEL w 289 mg/m³ (acute, local)
DNEL w 77 mg/m³ (acute, systemic)
DNEL w 77 mg/m³ (long-term, systemic)

Page: 6 / 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: 12.07.2016
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KAIFINISH® Primer Haftvermittler

solvent naphtha (petroleum), light arom.
(CAS No. 64742-95-6)

Dermal:
DNEL w 25 mg/kg bw/day (long-term, systemic)
Inhalative:
DNEL w 150 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

1-methoxy-2-propanol
(CAS No. 107-98-2)

Oral:
DNEL c 3,3 mg/kg bw/day (long-term, repeated)
Dermal:
DNEL c 18,1 mg/kg bw/day (long-term, systemic)
Inhalative:
DNEL c 43,9 mg/m³ (long-term, systemic)

n-butyl acetate
(CAS-Nr. 123-86-4)

Oral:
DNEL c 3,4 mg/kg bw/day (long-term, repeated)
Dermal:
DNEL c 3,4 mg/kg bw/day (long-term, systemic)
Inhalative:
DNEL c 12 mg/m³ (long-term, systemic)

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 14,8 mg/m³ (acute, systemic)
DNEL c 14,8 mg/m³ (long-term, systemic)

solvent naphtha (petroleum), light arom.
(CAS No. 64742-95-6)

Oral:
DNEL c 11 mg/kg bw/day (long-term, repeated)
Dermal:
DNEL w 11 mg/kg bw/day (long-term, systemic)
Inhalative:
DNEL w 32 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)

Predicted no-effect concentration (PNEC)

1-methoxy-2-propanol
(CAS No. 107-98-2)

PNEC water 10 mg/l (freshwater)
PNEC water 1 mg/l (marine water)
PNEC sediment 41,6 mg/kg (freshwater)
PNEC sediment 4,17 mg/kg (marine water)
PNEC soil 2,47 mg/kg (soil)
PNEC (STP) 100 mg/l (sewage treatment plant)

Safety Data Sheet

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

Print date: 12.07.2016
Revision date:
Valid from: 12.07.2016
Version: 1

KAIFINISH® Primer Haftvermittler

n-butyl acetate (CAS No. 123-86-4)	PNEC water 0,18 mg/l (freshwater) PNEC water 0,018 mg/l (marine water) PNEC water 0,36 mg/l (intermittent release) PNEC sediment 0,981 mg/kg (freshwater) PNEC sediment, marine water: 0,0981 mg/kg PNEC soil 0,0903 mg/kg (soil) PNEC (STP) 35,6 mg/l (sewage treatment plant)
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 (freshwater) PNEC sediment 12,46 mg/kg (marine water) PNEC soil 2,31 mg/kg (soil) PNEC (STP) 6,58 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 (freshwater); Method: Zinc PNEC sediment 56,5 mg/kg (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.

Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m³ (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.), Particle filter device (DIN EN 143).

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

Page: 8 / 16

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Safety Data Sheet

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

Print date: 12.07.2016
Revision date:
Valid from: 12.07.2016
Version: 1

KAIFINISH® Primer Haftvermittler

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
Smell:	characteristic
Flash point:	23 °C (DIN 53213)
Ignition temperature in °C:	270 °C
Lower explosion limit:	0,6 Vol-%
Upper explosion limit:	13,7 Vol-%
Vapour pressure at 20 °C:	6 mbar
Density at 20 °C:	1,12 g/cm ³
Water solubility (g/L):	partially soluble
Viscosity at 20 °C:	17 s 4 mm (DIN 53211)
Solvent separation test (%):	< 3 %
Solid content (%):	32,49 Gew-%
solvent content	
- Organic solvents:	67 Gew-%
- Water:	0 Gew-%

9.2 Other information

No data available.

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.

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: 12.07.2016
Revision date:
Valid from: 12.07.2016
Version: 1

KAIFINISH® Primer Haftvermittler

11.1 Information on toxicological effects

Acute toxicity

1-methoxy-2-propanol
(CAS No. 107-98-2)

Oral:
LD50 oral 2000 - 5000 mg/kg (Rat)
Dermal:
LD50 dermal > 5000 mg/kg (Rabbit)
Inhalative (vapours):
LC50 / 4 h 6 ppmV (Rat)

n-butyl acetate
(CAS No. 123-86-4)

Oral:
LD50 oral 10760 mg/kg (Rat); Method: OECD 423
Dermal:
LD50 dermal 14112 mg/kg (Rabbit), Method: OECD 402
Inhalative (dust and mist):
LC50 / 4 h 23,4 mg/l (Rat); Method: OECD 403

xylene
(CAS No. 1330-20-7)

Oral:
LD50 oral 4300 mg/kg (Rat)
Dermal:
LD50 dermal 4300 mg/kg (Rabbit)
Inhalative (Gases):
LC50 / 4 h 27,5 ppmV (Rat)

Reactionsproduct: Bisphenol-A-
Epichlorhydrine MW700-1100
(CAS No. 25068-38-6)

Oral:
LD50 oral > 2000 mg/kg (Rat)
Dermal:
LD50 dermal 23000 mg/kg (Rabbit)

solvent naphtha (petroleum), light
arom.
(CAS No. 64742-95-6)

Oral:
LD50 oral 3592 mg/kg (Rat), Method: OECD 401
Dermal:
LD50 dermal > 3160 mg/kg (Rat), Method: OECD 402
Inhalative (vapours):
LC50 / 4 h > 6,193 mg/l (Rat), Method: OECD 403

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)

Skin corrosion/irritation; Serious eye damage/eye irritation

n-butyl acetate:

Skin (Rabbit), Method: OECD 404
Eyes (Rabbit), Method: OECD 405

Reactionsproduct: Bisphenol-A-
Epichlorhydrine MW700-1100:

Skin (4 h)
Eyes

Respiratory or skin sensitisation

n-butyl acetate:

Skin (Guinea pig), Method: OECD 406

Reactionsproduct: Bisphenol-A-
Epichlorhydrine MW700-1100:

Skin

Safety Data Sheet

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

Print date: 12.07.2016
Revision date:
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Version: 1

KAIFINISH® Primer Haftvermittler

Specific target organ toxicity

n-butyl acetate:	Specific target organ toxicity (single exposure), drowsiness
Solvent naphtha (petroleum), light arom.	Specific target organ toxicity (single exposure), irritation Specific target organ toxicity (single exposure), drowsiness

Aspiration hazard

Solvent naphtha (petroleum), light arom.	Aspiration hazard
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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.

Remark

There is no information available on the preparation itself.

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

1-methoxy-2-propanol (CAS No. 107-98-2)	LC 50 / 96 h: > 100 mg/l (Fish) EC 50 / 48 h: 23300 mg/l (Daphnia magna, Big water flea) EC 50 / 168 h: > 1000 mg/l (Pseudokirchneriella subcapitata, Algae toxicity) LC0 / 96 h: > 4600 mg/l (Leuciscus idus, golden orfe) EC50: > 1000 mg/l (Bacteria toxicity, Activated sludge)
n-butyl acetate (CAS No. 123-86-4)	LC 50 / 96 h: 18 mg/l (Pimephales promelas, fathead minnow), Method: OECD 203 EC 50 / 48 h: 44 mg/l (Daphnia magna, Big water flea), Method: EC50 EC 50: 647,7 mg/l (Desmodesmus subspicatus, Algae toxicity), Method: EC50 NOEC: 200 (Desmodesmus subspicatus, Algae), Method: NOEC

Safety Data Sheet

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

Print date: 12.07.2016
Revision date:
Valid from: 12.07.2016
Version: 1

KAIFINISH® Primer Haftvermittler

xylene (CAS No. 1330-20-7)	EC 50 / 96 h: 13,4 mg/l (Oncorhynchus mykiss, Rainbow trout) EC 50 / 48 h: 150 mg/l (Daphnia magna, Big water flea) EC 50 / 72 h: 3,6 - 4,9 mg/l (Pseudokirchneriella subcapitata)
Reactionsproduct: Bisphenol-A- Epichlorhydrine MW700-1100 (CAS No. 25068-38-6) solvent naphtha (petroleum), light arom. (CAS No. 64742-95-6)	LC 50 / 96 h: > 100 mg/l (Pimephales promelas, fathead minnow) EC 50 / 48 h: > 100 mg/l (Daphnia magna, Big water flea) LC 50 / 96 h: 9,22 mg/l (Oncorhynchus mykiss, Rainbow trout) EC 50 / 48 h: 6,14 mg/l (Daphnia magna, Big water flea) EC 50 / 72 h: 2,6 - 2,9 mg/l (Pseudokirchneriella subcapitata)
trizinc bis(orthophosphate) (CAS No. 7779-90-0)	EC 50 / 48 h: 2,44 mg/l (Ceriodaphnia spec) EC 50 / 72 h: 0,8 mg/l (Selenastrum capricornutum)

12.2 Persistence and degradability

1-methoxy-2-propanol	OECD 301E/ EEC 92/69/V, C.4-B: 90 % (28 d); evaluation Readily biodegradable (according to OECD criteria).
n-butyl acetate	OECD 301D/ EEC 92/69/V, C.4-E: 0 (28 aerobic.); evaluation Readily biodegradable (according to OECD criteria). Method: OECD 301D/ EEC 92/69/V, C.4-E
Solvent naphtha (petroleum), light arom.	Biodegradation: 78 % (28 d); evaluation Readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

n-butyl acetate:	Distribution coefficient (n-octanol / water) (log P O/W), Method: OECD 117
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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

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.

Safety Data Sheet

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

Print date: 12.07.2016
Revision date:
Valid from: 12.07.2016
Version: 1

KAIFINISH® Primer Haftvermittler

SECTION 14: Transport information

14.1 UN nummer

123

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)

3

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID): ENVIRONMENTALLY HAZARDOUS
Marine pollutant: p / HYDROCARBONS, LIQUID, N.O.S.

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.

Additional information

Land transport (ADR/RID)

tunnel restriction code D/E
SONDERVORSCHRIFT 640E

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

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/L) ISO 11890-2: 758
VOC-value (in g/L) ASTM D 2369: 759

according to EU-regulation 2004/42/EC (appendix II)

EU limit value for this product (cat. (Cat. A/i)): 600 g/l (2007)/500 g/l (2010).
This product contains max 465 g/l VOC.

National regulations

Restrictions of occupation

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

Safety Data Sheet

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

Print date: 12.07.2016
Revision date:
Valid from: 12.07.2016
Version: 1

KAIFINISH® Primer Haftvermittler

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 %): 67

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
1-methoxy-2-propanol	REACH No. 01-2119457435-35 EC No. 203-539-1 CAS No. 107-98-2
n-butyl acetate	REACH No. 01-2119485493-29-xxxx EC No. 204-658-1 CAS No. 123-86-4
hydrocarbons, C9, aromatics	REACH No. 01-2119455851-35-xxxx EC No. 918-668-5 CAS No. 64742-95-6

SECTION 16: Other information

16.1 Indication of changes

Adapted to CLP/GHS requirements.

16.2 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)

Page: 14 / 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: 12.07.2016
Revision date:
Valid from: 12.07.2016
Version: 1

KAIFINISH® Primer Haftvermittler

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

16.3 Key literature references and sources for data

The information contained in this safety data sheet reflects our current level of knowledge and complies with national and EU legislation. However, the working conditions of the user are unknown to us and are outside of our control.

The details in this safety specification sheet describe the safety requirements for our products and offer no assurance as to the product's properties.

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

Flam. Liq. 3 H226	Flammable liquids	Flammable liquid and vapour.
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.
Asp. Tox. 1 H304	Aspiration hazard.	May be fatal if swallowed and enters airways.
		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).
STOT RE 2 H373	Specific target organ toxicity (repeated exposure)	
STOT SE 3 H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
STOT SE 3 H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
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 life.
Aquatic Chronic 1 H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
Skin Sens. 1 H317	Respiratory or skin sensitization.	May cause an allergic skin reaction.

16.5 Relevant R-, H- and EUH-phrases (number and full text)

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H304 May be fatal if swallowed and enters airways.

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: 12.07.2016
Revision date:
Valid from: 12.07.2016
Version: 1

KAIFINISH® Primer Haftvermittler

H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H317 May cause an allergic skin reaction.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.

16.6 Training advice

Regular education and training is consulted when working with dangerous goods.
See Kaiflex® manuals.

16.7 Further information

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 section 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.
