

Safety Data Sheet

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

Print date: 06.02.2018
Revision date: 06.02.2018
Valid from: 06.02.2018
Version: 2

KAIFINISH® Primer Haftvermittler / Adhesive Primer

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

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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 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.

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.

Contains:

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

Supplemental hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

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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
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% STOT SE 3 H336 / Flam. Liq. 3 H226
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% 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

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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 - 1%

Aquatic Acute 1 H400 / Aquatic Chronic 1 H410

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

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.

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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.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limit values

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

WEL, TWA: 375 mg/m³; 100 ppm
WEL, STEL: 560 mg/m³; 150 ppm

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

MEL/OES, TWA: 724 mg/m³; 150 ppm
MEL/OES, STEL: 966 mg/m³; 200 ppm

xylene, mixture of isomers
(CAS No.: 1330-20-7)

WEL, TWA: 220 mg/m³; 50 ppm
WEL, STEL: 441 mg/m³; 100 ppm
BMGV, TWA: 650 mmol/mol creatinine
Remark: methyl hippuric acid; urine; end of exposure or end of shift

Additional information:

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

Workers

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 11 mg/kg bw/day (long-term, systemic)
Inhalative:
DNEL w 480 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)

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)

DNEL:

Consumer

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

Oral:
DNEL c 33 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)

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n-butyl acetate (CAS No.: 123-86-4)	Oral: DNEL c 2 mg/kg bw/day (long-term, repeated) Dermal: DNEL c 6 mg/kg bw/day (long-term, systemic) Inhalative: DNEL c 35,7 mg/m ³ (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/m ³ (acute, local) DNEL c 174 mg/m ³ (acute, systemic) DNEL c 14,8 mg/m ³ (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/m ³ (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/m ³ (long-term, systemic)
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)
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)

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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.

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

Appearance:
Physical state: liquid
Colour: refer to label
Odour: characteristic
Odour threshold: not applicable
pH at 20 °C: not applicable
Melting point/freezing point: -97 °C
Source: 1-methoxy-2-propanol
Initial boiling point and boiling range: not applicable
Flash point: 23 °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:

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Lower explosion limit:	0,74 Vol-%
Upper explosion limit:	20 Vol-%
	Source: 1-methoxy-2-propanol
Vapour pressure at 20 °C:	1,8252 mbar
Vapour density:	not applicable
Relative density:	
Density at 20 °C:	1,13 g/cm ³
	Method: ISO 2811, Teil 1
Solubility(ies):	
Water solubility (g/L) at 20 °C:	partially soluble
Partition coefficient: n-octanol/water:	see section 12
Auto-ignition temperature:	270 °C
	Source: 1-methoxy-2-propanol
Decomposition temperature:	not applicable
Viscosity at 20 °C:	17 s 4 mm
	Method: DIN 53211
Explosive properties:	not applicable
Oxidising properties:	not applicable

9.2 Other information

Solid content (%):	32,49 Wt %
solvent content:	
Organic solvents:	67 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

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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 mg/L (Rat)

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

Oral:
LD50 oral 10768 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 3523 mg/kg (Rat)
Dermal:
LD50 dermal 12126 mg/kg (Rabbit)
Inhalative (Gases):
LC50 / 4 h 27,5 mg/L (Rat)

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 2000 - 5000 mg/kg (Rat), Method: OECD 401
Dermal:
LD50 dermal (Rat), Method: OECD 402
Inhalative (vapours):
LC50 / 4 h > 6193 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

Bisphenol-A-Epichlorhydrine MW700-
1100:

Skin (4 h)
Eyes

Respiratory or skin sensitisation

n-butyl acetate:

Skin (Guinea pig), Method: OECD 406

Bisphenol-A-Epichlorhydrine MW700-
1100:

Skin

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Toxicological data are not available.

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

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Aspiration hazard

Solvent naphtha (petroleum), light arom.: 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

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

Fish toxicity, LC50: > 100 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 23300 mg/L (48 h)
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1000 mg/L (168 h)
Fish toxicity, LC0, Leuciscus idus (golden orfe): > 4600 mg/L (96 h)
Bacteria toxicity, EC50, Activated sludge: > 1000 mg/L (3 h)

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

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 18 mg/L (96 h), Method: OECD 203
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 44 mg/L (48 h), Method: EC50
Algae toxicity, ErC50, Desmodesmus subspicatus.: 647,7 mg/L, Method: EC50

xylene
(CAS No. 1330-20-7)

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2,6 mg/L 0 - 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)

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

Fish toxicity, LC50, Pimephales promelas (fathead minnow): > 100 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 100 mg/L (48 h)

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solvent naphtha (petroleum), light arom. (CAS No. 64742-95-6)	Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 9,22 mg/L (96 h) Daphnia toxicity, EC50, Daphnia magna (Big water flea): 6,14 mg/L (48 h) Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 2,9 mg/L 2,6 - 2,9 mg/L (72 h)
trizinc bis(orthophosphate) (CAS No. 7779-90-0)	Daphnia toxicity, EC50, Ceriodaphnia spec: 63,1 mg/L (48 h) Algae toxicity, ErC50, Selenastrum capricornutum: 0,8 mg/L (72 h)

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

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

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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)
Marine pollutant

ENVIRONMENTALLY HAZARDOUS
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

EU-regulation 2010/75/EU on industrial emissions

VOC-value (in g/L): 761

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 %): 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

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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 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

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16.2 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.

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.