

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878

VFL
Vismara Farbladen

Article No.: 354 BRICAPOX Epoxy-Primer DS EP-354
Print date: 26.12.2022 Revision date: 22.12.2022 EN
Version: 9.1 Issue date: 22.12.2022 Page 1 / 16

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

1.1. **product identifiers**

Article No. (manufacturer/supplier) 354
Trade name/designation BRICAPOX Epoxy-Primer DS EP-354
MV: 4/1 mit 973
UFI: 7F8V-65HN-H99E-U5US

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

Relevant identified uses:

Coating material to protecting surfaces

1.3. **Details of the supplier of the safety data sheet**

supplier (manufacturer/importer/downstream user/distributor)

Vismara Unternehmungen CH-5000 Aarau www.farbladen.ch

Department responsible for information:

laboratory Manager

E-mail (competent person)

info@knuchel.ch

1.4. **Emergency telephone number**

Emergency telephone number

145 (+41 (0)44 251 51 51)

SECTION 2: Hazards identification

2.1. **Classification of the substance or mixture**

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

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

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

2.2. **Label elements**

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

Hazard pictograms



Danger

Hazard statements

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing vapours.
P264 Wash hands thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.

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P280 Wear protective gloves and eye/face protection.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor/ physician.
 P333 + P313 If skin irritation or rash 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 + P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container to industrial incineration plant.

Hazard components for labelling

butan-1-ol
 reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight $700 < x < 1100$
 Fatty acids, C18-unsaturated., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

Supplemental hazard information

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. **Other hazards**

No information available.

SECTION 3: Composition/information on ingredients

3.2. **Mixtures**

Description solventborne epoxy coating, containing the following hazardous substances:

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

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
25036-25-3	reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight $700 < x < 1100$ Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317	15 - 25
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32 Xylene 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	5 - 10
231-944-3 7779-90-0 030-011-00-6 200-751-6 71-36-3 603-004-00-6	01-2119485044-40 trizinc bis(orthophosphate) Aquatic Acute 1 H400 / Aquatic Chronic 1 H410 01-2119484630-38 butan-1-ol Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / STOT SE 3 H335 / STOT SE 3 H336 / Flam. Liq. 3 H226 Acute toxicity estimate (ATE), ATE (oral): 2292 mg/kg bw	5 - 10 1 - 5
202-422-2 95-47-6 601-022-00-9	01-2119485822-30 Xylene Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT SE 3 H335 / Asp. Tox. 1 H304 / Flam. Liq. 3 H226	1 - 5
203-603-9 108-65-6 607-195-00-7	01-2119475791-29 2-methoxy-1-methylethyl acetate Flam. Liq. 3 H226 Substance with a common (EC) occupational exposure limit value.	1 - 5
406-052-4 125078-60-6 607-337-00-8	01-0000015553-72 di-tert-(C12-14)-alkylammonium 2-benzothiazolylthiosuccinate Flam. Liq. 3 H226 / Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Aquatic Chronic 2 H411	1 - 5

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202-849-4 100-41-4 601-023-00-4	01-2119489370-35 ethylbenzene Flam. Liq. 2 H225 / Acute Tox. 4 H332 / STOT RE 2 H373 / Asp. Tox. 1 H304	1 - 5
203-767-1 110-43-0 606-024-00-3 219-784-2 2530-83-8	01-2119902391-49 heptan-2-one Flam. Liq. 3 H226 / Acute Tox. 4 H332 / Acute Tox. 4 H302 01-2119513212-58 gamma-glycidioxypropyltrimethoxysilane Eye Dam. 1 H318	1 - 5
605-296-0 162627-17-0	01-2119970640-38 Fatty acids, C18-unsaturated., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine Skin Sens. 1 H317	0.1 - 0.5
201-074-9 77-99-6	01-2119486799-10 Propylidynetrimethanol Repr. 2 H361	0.1 - 0.5

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

Take off immediately all contaminated clothing. 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.

Following 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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

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. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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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 section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 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 section 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.

Further information

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 (TRGS 727)".

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 use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values:

Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

WEL, TWA: 220 mg/m³; 50 ppm

WEL, STEL: 441 mg/m³; 100 ppm

Remark: (may be absorbed through the skin)

BMGV, TWA: 650 mmol/mol creatinine

Remark: methyl hippuric acid; urine; end of exposure or end of shift

butan-1-ol

Index No. 603-004-00-6 / EC No. 200-751-6 / CAS No. 71-36-3

WEL, STEL: 154 mg/m³; 50 ppm

Remark: (may be absorbed through the skin)

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Xylene

Index No. 601-022-00-9 / EC No. 202-422-2 / CAS No. 95-47-6

WEL, TWA: 220 mg/m³; 50 ppm

WEL, STEL: 441 mg/m³; 100 ppm

Remark: (may be absorbed through the skin)

2-methoxy-1-methylethyl acetate

Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

WEL, TWA: 274 mg/m³; 50 ppm

WEL, STEL: 548 mg/m³; 100 ppm

Remark: (may be absorbed through the skin)

ethylbenzene

Index No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4

WEL, TWA: 441 mg/m³; 100 ppm

WEL, STEL: 552 mg/m³; 125 ppm

Remark: (may be absorbed through the skin)

heptan-2-one

Index No. 606-024-00-3 / EC No. 203-767-1 / CAS No. 110-43-0

WEL, TWA: 237 mg/m³; 50 ppm

WEL, STEL: 475 mg/m³; 100 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

DNEL:

Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

DNEL long-term dermal (systemic), Workers: 212 mg/kg bw/day

DNEL acute inhalative (local), Workers: 442 mg/m³

DNEL acute inhalative (systemic), Workers: 442 mg/m³

DNEL long-term inhalative (local), Workers:

DNEL long-term inhalative (systemic), Workers: 221 mg/m³

DNEL long-term oral (repeated), Consumer: 12,5 mg/kg bw/day

DNEL long-term dermal (systemic), Consumer: 125 mg/kg bw/day

DNEL acute inhalative (local), Consumer: 260 mg/m³

DNEL acute inhalative (systemic), Consumer: 260 mg/m³

DNEL long-term inhalative (local), Consumer: 65,3 mg/m³

DNEL long-term inhalative (systemic), Consumer: 65,3 mg/m³

ethylbenzene

Index No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4

DNEL long-term dermal (systemic), Workers: 180 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 77 mg/m³

DNEL long-term oral (repeated), Consumer: 1,6 mg/kg bw/day

DNEL long-term inhalative (systemic), Consumer: 15 mg/m³

butan-1-ol

Index No. 603-004-00-6 / EC No. 200-751-6 / CAS No. 71-36-3

DNEL long-term oral (repeated), Workers: 3,125 mg/kg

DNEL acute inhalative (local), Workers: 310 mg/m³

DNEL acute inhalative (systemic), Workers: 310 mg/m³

DNEL long-term inhalative (local), Workers: 310 mg/m³

DNEL long-term inhalative (systemic), Workers: 310 mg/m³

DNEL long-term oral (local): 3,125 mg/kg

DNEL long-term inhalative (local), Consumer: 55 mg/m³

DNEL long-term inhalative (systemic), Consumer: 55 mg/m³

2-methoxy-1-methylethyl acetate

Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

DNEL long-term oral (repeated), Workers: 1,67 mg/kg

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DNEL long-term dermal (systemic), Workers: 54,8 mg/kg
DNEL long-term inhalative (systemic), Workers: 33 mg/m³

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight 700 < x < 1100
CAS No. 25036-25-3

DNEL acute dermal, short-term (systemic), Workers: 8,33 mg/kg bw/day
DNEL long-term dermal (systemic), Workers: 8,33 mg/kg bw/day
DNEL acute inhalative (systemic), Workers: 12,25 mg/m³
DNEL long-term inhalative (systemic), Workers: 12,25 mg/m³
DNEL long-term oral (repeated), Consumer: 0,75 mg/kg
DNEL acute dermal, short-term (systemic), Consumer: 3,571 mg/kg
DNEL long-term dermal (systemic), Consumer: 3,571 mg/kg
DNEL acute inhalative (systemic), Consumer: 0,75 mg/m³
DNEL long-term inhalative (systemic), Consumer: 0,75 mg/m³
DNEL short-term oral (systemic): 0,75 mg/kg bw/day

Xylene

Index No. 601-022-00-9 / EC No. 202-422-2 / CAS No. 95-47-6
DNEL long-term dermal (systemic), Workers: 212 mg/kg bw/day
DNEL acute inhalative (local), Workers: 442 mg/m³
DNEL acute inhalative (systemic), Workers: 442 mg/m³
DNEL long-term inhalative (local), Workers:
DNEL long-term inhalative (systemic), Workers: 221 mg/m³
DNEL long-term oral (repeated), Consumer: 12,5 mg/kg bw/day
DNEL long-term dermal (systemic), Consumer: 125 mg/kg bw/day
DNEL acute inhalative (local), Consumer: 260 mg/m³
DNEL acute inhalative (systemic), Consumer: 260 mg/m³
DNEL long-term inhalative (local), Consumer: 65,3 mg/m³
DNEL long-term inhalative (systemic), Consumer: 65,3 mg/m³

PNEC:

Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7
PNEC aquatic, freshwater: 0,327 mg/L
PNEC aquatic, marine water: 0,327 mg/L
PNEC sediment, freshwater: 12,46 mg/kg
PNEC sediment, marine water: 12,46 mg/kg
PNEC sewage treatment plant (STP): 6,58 mg/L
soil: 2,31 mg/kg

ethylbenzene

Index No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4
PNEC aquatic, freshwater: 0,1 mg/L
PNEC aquatic, marine water: 0,01 mg/L
PNEC sediment, freshwater: 13,7 mg/kg
PNEC sediment, marine water: 1,37 mg/kg
PNEC, soil: 2,68 mg/kg
PNEC sewage treatment plant (STP): 9,6 mg/L

butan-1-ol

Index No. 603-004-00-6 / EC No. 200-751-6 / CAS No. 71-36-3
PNEC aquatic, freshwater: 0,082 mg/L
PNEC aquatic, marine water: 0,0082 mg/L
PNEC aquatic, intermittent release: 2,25 mg/L
PNEC sediment, freshwater: 0,178 mg/kg
PNEC sediment, marine water: 0,0178 mg/kg
PNEC, soil: 0,015 mg/kg
PNEC sewage treatment plant (STP): 2476 mg/L

2-methoxy-1-methylethyl acetate

Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6
PNEC aquatic, freshwater: 0,635 mg/cm³
PNEC aquatic, marine water: 0,0635 mg/cm³
PNEC aquatic, intermittent release: 6,35 mg/cm³
PNEC sediment, freshwater: 3,29 mg/cm³
PNEC sediment, marine water: 0,329 mg/cm³

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PNEC, soil: 0,29 mg/m³
PNEC sewage treatment plant (STP): 100 mg/cm³

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight 700 < x < 1100

CAS No. 25036-25-3

PNEC aquatic, freshwater: 0,006 mg/L
PNEC aquatic, marine water: 0,0006 mg/L
PNEC aquatic, intermittent release: 0,018 mg/L
PNEC sediment, freshwater: 0,996 mg/kg
PNEC sediment, marine water: 0,0996 mg/kg
PNEC, soil: 0,196 mg/kg
PNEC sewage treatment plant (STP): 10 mg/L
PNEC Secondary Poisoning: 11 mg/kg

Xylene

Index No. 601-022-00-9 / EC No. 202-422-2 / CAS No. 95-47-6

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

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.

Personal protection equipment

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. 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: > 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 EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

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 section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	refer to label
Odour:	characteristic
Odour threshold:	not applicable
Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	139 °C Source: Xylene
Flammability:	Flammable liquid and vapour.
Lower and upper explosion limit:	
Lower explosion limit:	1.01 Vol-%
Upper explosion limit:	11.3 Vol-%

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Source: butan-1-ol

Flash point: **25 °C**
Method: DIN 53213

Auto-ignition temperature: **305 °C**
Source: heptan-2-one

Decomposition temperature: **not applicable**

pH at 20 °C: **not applicable**

Cinematic viscosity (40°C): **3825.31 mm²/s**

Viscosity at 20 °C: **6000 - 7000 mPas**

Solubility(ies):
Water solubility at 20 °C: **insoluble**

Partition coefficient: n-octanol/water: **see section 12**

Vapour pressure at 20 °C: **8 mbar**
Source: Xylene

Density and/or relative density:
Density at 20 °C: **1.57 g/cm³**

Relative vapour density: **not applicable**

particle characteristics: **not applicable**

9.2. Other information

Solid content: **76 weight-%**

solvent content:
Organic solvents: **24 weight-%**
Water: **0 weight-%**

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

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

not applicable

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

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Xylene

oral, LD50, Rat, male: 5,523 mg/kg

Method: EU Test B.1

inhalative (vapours), LC50, Rat, male: 6700 ppm (4 h)

ethylbenzene

oral, LD50, Rat: 3,5 mg/kg

dermal, LD50, Rabbit: 15,4 mg/kg

butan-1-ol

oral, LD50, Rat: 2292 mg/kg

Method: OECD 401

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Harmful if swallowed.
dermal, LD50, Rabbit: 3430 mg/kg
Method: OECD 402

2-methoxy-1-methylethyl acetate
dermal, LD50, Rabbit: > 2000 mg/kg

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight $700 < x < 1100$
oral, LD50, Rat: 11400 mg/kg
dermal, LD50, Rabbit: 23000 mg/kg

Xylene

oral, LD50, Rat, male: 5,523 mg/kg
Method: EU Test B.1
inhalative (vapours), LC50, Rat, male: 6700 ppm (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye damage.

ethylbenzene

Skin, Rabbit (24 h)
Causes mild skin irritation.
eyes, Rabbit
Causes slight eye irritation

butan-1-ol

Skin, Rabbit (4 h)
Method: BASF - Test
eyes, Rabbit

2-methoxy-1-methylethyl acetate

Skin (4 h)
Method: OECD 404
Not to be classified as skin etching/irritant.
eyes
Not to be classified as severe eye damage or eye irritation.

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight $700 < x < 1100$

Skin, Rabbit (4 h)
Irritant
eyes, Rabbit
Irritant

Respiratory or skin sensitisation

May cause an allergic skin reaction.

2-methoxy-1-methylethyl acetate

Skin: ; Evaluation not sensitising.
Method: OECD 406
Respiratory system:
No data available

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight $700 < x < 1100$

Skin:
No data available
Respiratory system:
No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

ethylbenzene

Germ cell mutagenicity; Evaluation negative
Hamster; Mouse; ovaries
Carcinogenicity; Evaluation Carc. Cat. 2
Method: Group II B (IARC): Possible carcinogenic to humans (ethylbenzene)
human

butan-1-ol

teratogenicity, oral

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878

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Method: NOAEL
Rat; 1.454 mg/kg; Toxicological effects in dams
teratogenicity, oral

Method: NOAEL
Rat; 5.654 mg/kg
teratogenicity, inhalative

Method: NOAEL
Rat; 10.8 mg/l; Toxicological effects in dams
teratogenicity, inhalative

Method: NOAEL
Rat; 24.7 mg/l
Reproductive toxicity, inhalative

Method: NOAEL
Rat; 18.5 mg/l; parents
Reproductive toxicity, inhalative

Method: NOAEL
Mouse; 18.5 mg/l; F1

2-methoxy-1-methylethyl acetate

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Lactation

No data available

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight $700 < x < 1100$

Germ cell mutagenicity; Evaluation positive

Method: OECD 471 (Ames test)

Carcinogenicity; Evaluation negative

Method: OECD 453

Rat; oral; 2 years; 7 days per week

Reproductive toxicity

Method: OECD 416

Rat; oral; 540 mg/kg NOEL

Germ cell mutagenicity; Evaluation positive

Method: OECD 476

In vitro gene mutation test on mammalian cells

Germ cell mutagenicity; Evaluation negative

Method: OECD 478

Genetic Toxicology: Rodent Dominant Lethal Test

STOT-single exposure; STOT-repeated exposure

Xylene

Specific target organ toxicity (repeated exposure)

Liver and kidney damage; central nervous system

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).

Liver and kidney damage; central nervous system; hearing organs

ethylbenzene

Repeated dose toxicity, Rat: 75 mg/kg

Method OECD 407

RTECS-no.;; DA0700000

Depression of central nervous system

movement disorders; headache; Vomiting

2-methoxy-1-methylethyl acetate

Specific target organ toxicity (single exposure)

No data available

Specific target organ toxicity (repeated exposure)

No data available

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reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight $700 < x < 1100$

Specific target organ toxicity (single exposure)

No data available

Specific target organ toxicity (repeated exposure)

No data available

Xylene

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).

Liver and kidney damage; central nervous system; hearing organs

Aspiration hazard

butan-1-ol

Aspiration hazard

2-methoxy-1-methylethyl acetate

Aspiration hazard

Not to be classified as aspirational.

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight $700 < x < 1100$

Aspiration hazard

No data available

Practical experience/human evidence

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.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

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

Do not allow to enter into surface water or drains.

12.1. Toxicity

Xylene

Fish toxicity, LC50, fish: 2,6 mg/L (96 h)

Method: OECD 203

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 4,6 mg/L (72 h)

Method: OECD 201

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 4,6 mg/L (72 h)

Method: OECD 201

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout) (96 h)

Method: OECD 203

Daphnia toxicity, IC50, Daphnia magna: 1 mg/L (24 h)

Method: OECD 202

Algae toxicity, EC50, Selenastrum capricornutum: 2,2 mg/L (73 h)

Method: OECD 201

Daphnia toxicity, growth test (Eb-Cx) 10%“, Daphnia magna: 1,91 mg/L (21 d)

Method: OECD 211

Bacteria toxicity, NOEC, Activated sludge: 16 mg/L (28 t)

Method: OECD 301 F

ethylbenzene

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 4,2 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea) 1,8 - 2,4 mg/L (48 h)

Algae toxicity, EC50, Skeletonema costatum: 4,9 mg/L (72 h)

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Algae toxicity, EC50, Pseudokirchneriella subcapitata: 7,2 mg/L (48 h)
Shellfish Toxicity, LC50, Mysidopsis bahia: > 5,2 mg/L (48 h)
Toxicity of Microorganisms, EC50, microorganisms: 96 mg/L (24 h)

butan-1-ol

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 1376 mg/L (96 h)
Method: OECD 203
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1328 mg/L (48 h)
Method: OECD 202
Algae toxicity, EC50, Selenastrum capricornutum: 225 mg/L
Method: OECD 201
literature value
Bacteria toxicity, EC10, Pseudomonas putida: 2476 mg/L (17 h)
Method: DIN 38412

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight $700 < x < 1100$

Fish toxicity, LC50, Leuciscus idus (golden orfe): 2 mg/L (96 h)
Fish toxicity, EC50, Leuciscus idus (golden orfe): 3,6 mg/L (96 h)
Fish toxicity, EC50, Selenastrum capricornutum: 220 mg/L (96 h)
Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 0,3 mg/L (21 d)
Algae toxicity, EC50, Scenedesmus capricornutum: 9,4 mg/L (72 h)
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2 mg/L (96 h)

Xylene

Fish toxicity, LC50, fish: 2,6 mg/L (96 h)
Method: OECD 203
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 4,6 mg/L (72 h)
Method: OECD 201
Algae toxicity, EC50, Pseudokirchneriella subcapitata: 4,6 mg/L (72 h)
Method: OECD 201
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout) (96 h)
Method: OECD 203
Daphnia toxicity, IC50, Daphnia magna: 1 mg/L (24 h)
Method: OECD 202
Algae toxicity, EC50, Selenastrum capricornutum: 2,2 mg/L (73 h)
Method: OECD 201
Daphnia toxicity, growth test (Eb-Cx) 10%“, Daphnia magna: 1,91 mg/L (21 d)
Method: OECD 211
Bacteria toxicity, NOEC, Activated sludge: 16 mg/L (28 t)
Method: OECD 301 F

Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

Xylene

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 4,36 mg/L (73 h)
Method: OECD 201
Fish toxicity, NOEC, fish: > 1,3 mg/L (56 d)
Daphnia toxicity, NOEC, Daphnia pulex (water flea): 1,17 mg/L (7 d)
Method: US EPA 600/4-91-003
Daphnia toxicity, EL50, Daphnia magna: 2,9 mg/L (21 d)
Method: OECD 211
Algae toxicity, EC50, Pseudokirchneriella subcapitata: 2,2 mg/L (73 h)
Method: OECD 201
Daphnia toxicity, LOEC:, Daphnia magna (Big water flea): 3,16 mg/L (21 d)
Method: OECD 211
Algae toxicity, growth test (Eb-Cx) 10%“, Pseudokirchneriella subcapitata: 0,72 mg/L (73 h)
Method: OECD 201

ethylbenzene

Daphnia toxicity, NOEC, Ceriodaphnia dubia (Wasserfloh): 0,96 mg/L (7 d)
Daphnia toxicity, LC50, Ceriodaphnia dubia (Wasserfloh): 3,6 mg/L (7 d)
Bacteria toxicity, EC50, Nitrosomonas sp: 96 mg/L (24 h)
Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 3,4 mg/L (96 h)
Daphnia toxicity, LOEC:, Ceriodaphnia dubia (Wasserfloh): 1,7 mg/L (7 d)

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Daphnia toxicity, NOEL, Daphnia magna (Big water flea): 4,1 mg/L (21 d)
Method: OECD 211

Xylene

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 4,36 mg/L (73 h)
Method: OECD 201

Fish toxicity, NOEC, fish: > 1,3 mg/L (56 d)

Daphnia toxicity, NOEC, Daphnia pulex (water flea): 1,17 mg/L (7 d)

Method: US EPA 600/4-91-003

Daphnia toxicity, EL50, Daphnia magna: 2,9 mg/L (21 d)

Method: OECD 211

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 2,2 mg/L (73 h)

Method: OECD 201

Daphnia toxicity, LOEC:, Daphnia magna (Big water flea): 3,16 mg/L (21 d)

Method: OECD 211

Algae toxicity, growth test (Eb-Cx) 10%“, Pseudokirchneriella subcapitata: 0,72 mg/L (73 h)

Method: OECD 201

12.2. Persistence and degradability

Xylene

Persistence and degradability:

Method: Rapid photochemical oxidation in air

Biodegradation: 98 percent (28 d)

Readily biodegradable (according to OECD criteria)

ethylbenzene

Biodegradation, aerobic: 70 - 80 percent (28 d); Evaluation Readily biodegradable (according to OECD criteria)

butan-1-ol

Biodegradation: 92 percent (20 d); Evaluation Readily biodegradable (according to OECD criteria)
aerobic.; Activated sludge; Biochemical oxygen demand

2-methoxy-1-methylethyl acetate

Persistence and degradability:

No data available

Biodegradation: Evaluation Readily biodegradable (according to OECD criteria).

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight $700 < x < 1100$

Biodegradation: 5 percent (28 d); Evaluation Not readily biodegradable (according to OECD criteria)

Method: OECD 301F

Xylene

Persistence and degradability:

Method: Rapid photochemical oxidation in air

Biodegradation: 98 percent (28 d)

Readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential

Xylene

Distribution coefficient n-octanol/water (log KOW): 3,49

ethylbenzene

Distribution coefficient n-octanol/water (log KOW): 3,6

butan-1-ol

Partition coefficient: n-octanol/water:

Bioaccumulation is not to be expected.

Distribution coefficient n-octanol/water (log KOW): 0,88

2-methoxy-1-methylethyl acetate

Distribution coefficient n-octanol/water (log KOW): 1,2

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight $700 < x < 1100$

Distribution coefficient n-octanol/water (log KOW):

No data available

Xylene

Distribution coefficient n-octanol/water (log KOW): 3,49

12.4. Mobility in soil

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Xylene

soil: Evaluation Absorbs slowly into the soil

Water: Evaluation Floats on the water

butan-1-ol

Mobility in soil:

The substance does not evaporate from the water surface into the atmosphere.; Does not adsorb to the ground.

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight $700 < x < 1100$

soil:

No data available

Xylene

soil: Evaluation Absorbs slowly into the soil

Water: Evaluation Floats on the water

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No 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. Dispose of waste according to applicable legislation.

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

080111* Waste paint and varnish containing organic solvents or other dangerous substances

*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package Recommendation

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

SECTION 14: Transport information

14.1. UN number or ID 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)

3

14.4. Packing group

III

14.5. Environmental hazards

Land transport (ADR/RID) UMWELTGEFÄHRDEND
Marine pollutant p

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)

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Tunnel restriction code
 in packages <= 5 litres D/E
 KEINE GÜTER DER KLASSE 3

Sea transport (IMDG)

EmS-No. F-E, S-E
 in packages <= 5 litres Transport in accordance with the provisions of paragraph 2.3.2.5 of the
 IMDG Code.

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

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 [Industrial Emissions Directive]

VOC-value (in g/L): 369

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

15.2. Chemical Safety Assessment

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

EC No. CAS No.	Designation	REACH No.
215-535-7 1330-20-7	Xylene	01-2119488216-32
231-944-3 7779-90-0	trizinc bis(orthophosphate)	01-2119485044-40
200-751-6 71-36-3	butan-1-ol	01-2119484630-38
202-422-2 95-47-6	Xylene	01-2119485822-30
203-603-9 108-65-6	2-methoxy-1-methylethyl acetate	01-2119475791-29
406-052-4 125078-60-6	di-tert-(C12-14)-alkylammonium 2-benzothiazolythiosuccinate	01-0000015553-72
202-849-4 100-41-4	ethylbenzene	01-2119489370-35
203-767-1 110-43-0	heptan-2-one	01-2119902391-49
219-784-2 2530-83-8	gamma-glycidoxypropyltrimethoxysilane	01-2119513212-58
605-296-0 162627-17-0	Fatty acids, C18-unsaturated., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine	01-2119970640-38
201-074-9 77-99-6	Propylidynetrimethanol	01-2119486799-10

SECTION 16: Other information

Full text of classification in section 3

Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs (or state all organs affected, if known) through prolonged or

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Asp. Tox. 1 / H304	Aspiration hazard
Flam. Liq. 3 / H226	Flammable liquids
Aquatic Acute 1 / H400	Hazardous to the aquatic environment
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment
Acute Tox. 4 / H302	Acute toxicity (oral)
Eye Dam. 1 / H318	Serious eye damage/eye irritation
STOT SE 3 / H336	STOT-single exposure
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment
Flam. Liq. 2 / H225	Flammable liquids
Repr. 2 / H361	Reproductive toxicity

repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
May be fatal if swallowed and enters airways.
Flammable liquid and vapour.
Very toxic to aquatic organisms.
Very toxic to aquatic life with long lasting effects.
Harmful if swallowed.
Causes serious eye damage.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.
Highly flammable liquid and vapour.
Suspected of damaging fertility. Suspected of damaging the unborn child.

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3	Flammable liquids	On basis of test data.
Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Eye Dam. 1	Serious eye damage/eye irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
Aquatic Chronic 2	Hazardous to the aquatic environment	Calculation method.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

Further 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 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.