

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

VFL
Vismara Farbladen

Article No.: 1400
Print date: 29.01.2021
Version: 8

ECLAPOX EP
Revision date: 30.07.2020
Issue date: 30.07.2020

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

1.1. **product identifiers**

Article No. (manufacturer/supplier) 1400
Trade name/designation ECLAPOX EP
2K-phosphate primer

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

Relevant identified uses:

Coating material to protect 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:

Labor
E-mail

1.4. **Emergency telephone number**

Emergency telephone number +41 32 622 41 41
Toxikologisches Zentrum +41 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 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.
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



Warning

Hazard statements

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
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.
P273 Avoid release to the environment.
P280 Wear protective gloves and eye/face protection.
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.

Hazard components for labelling

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700
Fatty acids, C18-unsaturated, dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

Supplemental hazard information

EUH205 Contains epoxy constituents. May produce an allergic reaction.

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2.3. Other hazards

No information available.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description epoxy resin combination

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

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
500-033-5 25068-38-6 603-074-00-8	01-2119456619-26 reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700 Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411 Specific concentration limit (SCL): Eye Irrit. 2 H319 >= 5 / Skin Irrit. 2 H315 >= 5	12.5 - 20
231-944-3 7779-90-0 030-011-00-6	01-2119485044-40 trizinc bis(orthophosphate) Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	5 - 10
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
265-199-0 64742-95-6 649-356-00-4	01-2119455851-35 Solvent naphtha (petroleum), light arom. Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H335 / STOT SE 3 H336 / Aquatic Chronic 2 H411	2.5 - 5
203-539-1 107-98-2 603-064-00-3	01-2119457435-35 1-methoxy-2-propanol Flam. Liq. 3 H226 / STOT SE 3 H336	2.5 - 5
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 - 2.5
200-751-6 71-36-3 603-004-00-6	01-2119484630-38 butan-1-ol Flam. Liq. 3 H226 / Acute Tox. 4 H302 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / STOT SE 3 H336	1 - 2.5
203-905-0 111-76-2 603-014-00-0	01-2119475108-36 2-butoxyethanol Acute Tox. 4 H302 / Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319	1 - 2.5
215-222-5 1314-13-2 030-013-00-7	01-2119463881-32-XXXX zinc oxide Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	< 0.5
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	< 0.5

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,

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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

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.

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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

Solvent naphtha (petroleum), light arom.

Index No. 649-356-00-4 / EC No. 265-199-0 / CAS No. 64742-95-6

WEL, TWA: 500 mg/m³

Remark: (Aromatics)

1-methoxy-2-propanol

Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2

WEL, TWA: 375 mg/m³; 100 ppm

WEL, STEL: 560 mg/m³; 150 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)

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)

2-butoxyethanol

Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

WEL, TWA: 123 mg/m³; 25 ppm

WEL, STEL: 246 mg/m³; 50 ppm

Remark: (may be absorbed through the skin)

BMGV, TWA: 240 mmol/mol creatinine

Remark: Butoxyacetic acid; urine; end of exposure or end of shift

Additional information

TWA : Long-term occupational exposure limit value

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

DNEL:

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Index No. 603-074-00-8 / EC No. 500-033-5 / CAS No. 25068-38-6

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 bw/day

DNEL acute dermal, short-term (systemic), Consumer: 3,571 mg/kg bw/day

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), Consumer: 0,75 mg/kg bw/day

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:

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

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-butoxyethanol

Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

DNEL acute dermal, short-term (systemic), Workers: 89 mg/kg bw/day

DNEL long-term dermal (systemic), Workers: 75 mg/kg bw/day

DNEL acute inhalative (local), Workers: 246 mg/m³

DNEL acute inhalative (systemic), Workers: 663 mg/m³

DNEL long-term inhalative (systemic), Workers: 98 mg/m³

DNEL long-term oral (repeated), Consumer: 3,2 mg/kg bw/day

DNEL acute dermal, short-term (systemic), Consumer: 44,5 mg/kg

DNEL long-term dermal (systemic), Consumer: 38 mg/kg

DNEL acute inhalative (local), Consumer: 123 mg/m³

DNEL acute inhalative (systemic), Consumer: 426 mg/m³

DNEL long-term inhalative (systemic), Consumer: 49 mg/m³

DNEL short-term oral (systemic): 13,4 mg/kg bw/day

1-methoxy-2-propanol

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Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2
DNEL long-term dermal (systemic), Workers: 183 mg/kg bw/day
DNEL acute inhalative (local), Workers: 553,5 mg/m³
DNEL long-term inhalative (systemic), Workers: 369 mg/m³
DNEL long-term oral (repeated), Consumer: 3,3 mg/kg bw/day
DNEL long-term dermal (systemic), Consumer: 18,1 mg/kg bw/day
DNEL long-term inhalative (systemic), Consumer: 43,9 mg/m³

Solvent naphtha (petroleum), light arom.

Index No. 649-356-00-4 / EC No. 265-199-0 / CAS No. 64742-95-6
DNEL long-term dermal (systemic), Workers: 25 mg/kg bw/day
DNEL long-term inhalative (systemic), Workers: 150 mg/m³
DNEL long-term oral (repeated), Consumer: 11 mg/kg
DNEL long-term dermal (systemic), Consumer: 11 mg/kg bw/day

PNEC:

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Index No. 603-074-00-8 / EC No. 500-033-5 / CAS No. 25068-38-6
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. 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, soil: 2,31 mg/kg
PNEC sewage treatment plant (STP): 6,58 mg/L

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):

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-butoxyethanol

Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2
PNEC aquatic, freshwater: 8,8 mg/L
PNEC aquatic, marine water: 0,88 mg/L
PNEC aquatic, intermittent release: 9,1 mg/L
PNEC sediment, freshwater: 34,6 mg/kg dw
PNEC, soil:
PNEC sewage treatment plant (STP): 463 mg/L

1-methoxy-2-propanol

Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2

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PNEC aquatic, freshwater: 10 mg/L
PNEC aquatic, marine water: 1 mg/L
PNEC aquatic, intermittent release: 100 mg/L
PNEC sediment, freshwater: 52,3 mg/kg
PNEC sediment, marine water: 5,2 mg/kg
PNEC, soil: 4,59 mg/kg
PNEC sewage treatment plant (STP): 100 mg/L

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. 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: > 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

Appearance:

Physical state:

Liquid

Colour:

refer to label

Odour:

characteristic

Odour threshold:

not applicable

pH at 20 °C:

not applicable

Melting point/freezing point:

not applicable

Initial boiling point and boiling range:

139 °C

Source: Xylene

Flash point:

28 °C

Method: DIN 53213

Evaporation rate:

not applicable

flammability

Burning time:

not applicable

Upper/lower flammability or explosive limits:

Lower explosion limit:

0.92 Vol-%

Upper explosion limit:

13.7 Vol-%

Source: 1-methoxy-2-propanol

Vapour pressure at 20 °C:

0.655 mbar

Vapour density:

not applicable

Relative density:

*

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Density at 20 °C:	1.68 g/cm³
Solubility(ies):	
Water solubility at 20 °C:	insoluble
Partition coefficient: n-octanol/water:	see section 12
Auto-ignition temperature:	240 °C Source: 2-butoxyethanol
Decomposition temperature:	not applicable
Viscosity at °C:	4000 - 5000 mPas
Explosive properties:	not applicable
Oxidising properties:	not applicable

9.2. Other information

Solid content:	78 weight-%
solvent content:	
Organic solvents:	22 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

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

11.1. Information on toxicological effects

Acute toxicity

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

oral, LD50, Rat: 11400 mg/kg

dermal, LD50, Rabbit: 23000 mg/kg

Xylene

oral, LD50, Rat: 4300 mg/kg

dermal, LD50, Rabbit: 2000 mg/kg

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

Method: EU Test B.1

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

Method: OECD 201

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

Harmful if swallowed.

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dermal, LD50, Rabbit: 3430 mg/kg
Method: OECD 402

2-butoxyethanol

oral, LD50, Rat: 1300 mg/kg
Method: OECD 401
dermal, LD50, Rat: > 2000 mg/kg
oral, LD50, Guinea pig: 1414 mg/kg
Method: OECD 401
inhalative (vapours), LC0, Guinea pig, female: > 3,1 mg/L
Method: (49 CFR 173.132)
inhalative (vapours), LC0, Guinea pig, male: > 3,4 mg/L
Method: (49 CFR 173.132)
dermal, LD50, Rabbit, male: 1,06 mg/kg

1-methoxy-2-propanol

oral, LD50, Rat: 4,016 mg/kg
Method: EU Test B.1
depression of central nervous system
dermal, LD50, Rat: > 2 mg/kg
Method: EU Test B.3
inhalative (vapours), LC50, Rat: 36,67 mg/L (4 h)
Method: OECD 403

zinc oxide

oral, LD50, Rat: > 15000 mg/kg
inhalative (dust and mist), LC50, Rat: > 5,7 mg/L (4 h)
oral, LD50:, Mouse: 7950 mg/kg

Solvent naphtha (petroleum), light arom.

oral, LD50, Rat: 3492 mg/kg
Method: OECD 401
dermal, LD50, Rabbit: > 3160 mg/kg
Method: OECD 402

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye irritation.

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Skin, Rabbit (4 h)

Irritant

eyes, Rabbit

Irritant

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

2-butoxyethanol

Skin, Rabbit (4 h)
Method: Directive 67/548/EEC, Annex V, B.4.
eyes, Rabbit (24 h)
Method: OECD 405

1-methoxy-2-propanol

Skin (4 h)
Method: EU Test B.4
Not to be classified as skin etching/irritant.
eyes
Method: EU Test B.5

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Not to be classified as severe eye damage or eye irritation.

Solvent naphtha (petroleum), light arom.

Skin (4 h)

Method: OECD 404

Not to be classified as skin etching/irritant.

eyes

Method: OECD 405

Not to be classified as severe eye damage or eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Skin:

No data available

Respiratory system:

No data available

2-butoxyethanol

Skin, Guinea pig: ; Evaluation not sensitising.

Method: OECD 406

Maximization test

1-methoxy-2-propanol

Skin, Guinea pig: ; Evaluation Not to be classified as skin sensitising.

Method: Directive 67/548/EEC, Annex V, B.6.

Respiratory system: ; Evaluation not sensitising.

Method: Directive 67/548/EEC, Annex V, B.6.

Solvent naphtha (petroleum), light arom.

Skin:

Method: OECD 406

Not to be classified as skin sensitising.

Respiratory system:

No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

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

Carcinogenicity; Evaluation negative

Method: OECD 453

Rat; dermal; 2 years; 5 days per week

teratogenicity

Method: OECD 414

Rat, female; >540 mg/kg NOEL

teratogenicity

Method: EPA CFR

Rabbit, female; > 300 mg/kg NOEL

teratogenicity

Method: OECD 414

Rabbit, female; 180 mg/kg NOAEL

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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
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-butoxyethanol

Germ cell mutagenicity; Evaluation In vitro tests showed no mutagenic effects.
Carcinogenicity; Evaluation Didn't show any carcinogenic effects in animal tests.
Reproductive toxicity
teratogenicity; Evaluation Didn't show any effect on fetus development in animal studies.

1-methoxy-2-propanol

Germ cell mutagenicity; Evaluation Not to be classified as germ cell mutagen (mutagen).
Carcinogenicity; Evaluation Does not qualify as a carcinogen.
Method: OECD 453
Reproductive toxicity; Evaluation Not to be classified as toxic to reproduction.
Method: OECD 416

The toxic effect on reproduction was only demonstrated in animal experiments after the administration of very high amounts of substances.

Lactation

No data available

teratogenicity; Evaluation No effect on fertility in animal studies.

Solvent naphtha (petroleum), light arom.

Germ cell mutagenicity
Not to be classified as germ cell mutagen (mutagen).
Carcinogenicity
No data available

STOT-single exposure; STOT-repeated exposure

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

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)

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

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Repeated dose toxicity, Rat: 75 mg/kg
Method OECD 407
RTECS-no.: DA0700000
depression of central nervous system
movement disorders; headache; Vomiting
1-methoxy-2-propanol
Specific target organ toxicity (single exposure)
Inhalation; central nervous system; May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure) Evaluation Not to be classified as specific target organ toxic (repeated exposure).
Solvent naphtha (petroleum), light arom.
Specific target organ toxicity (single exposure)
May cause respiratory irritation.; May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)
No data available

Aspiration hazard

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Aspiration hazard
No data available

butan-1-ol

Aspiration hazard

1-methoxy-2-propanol

Aspiration hazard

Not to be classified as aspirational.

Solvent naphtha (petroleum), light arom.

Aspiration hazard

May be fatal if swallowed and enters airways.

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.

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

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Fish toxicity, LC50, *Leuciscus idus* (golden orfe): 2 mg/L (96 h)

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 1,8 mg/L (48 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* (Süßwasser-alge): 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, LC50, *Pseudokirchneriella subcapitata*: 4,6 mg/L (72 h)

Method: OECD 201

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

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Method: OECD 203
Daphnia toxicity, IC50, Daphnia magna: 1 mg/L (24 h)
Method: OECD 202
Algae toxicity, LC50, Selenastrum capricornutum: 2,2 mg/L (73 h)
Method: OECD 201
Bacteria toxicity, NOEC, Activated sludge: 16 mg/L (28 d)
Method: OECD 301 F

ethylbenzene

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 4,2 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna 1,8 - 2,4 mg/L (48 h)
Algae toxicity, EC50, Skeletonema costatum: 4,9 mg/L (72 h)
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, EC50, Selenastrum capricornutum: 225 mg/L (96 h)
Method: OECD 201
literature value
Bacteria toxicity, EC10, Pseudomonas putida: 2476 mg/L (17 h)
Method: DIN 38412

2-butoxyethanol

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 1474 mg/L (96 h)
Method: OECD 203
Daphnia toxicity, EC50, Daphnia pulex (water flea): 1550 mg/L (48 h)
Method: OECD 202
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1 mg/L (72 h)
Method: OECD 201
Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 62,5 mg/L (72 h)
Method: OECD 201
Bacteria toxicity, EC0, Pseudomonas putida: 700 mg/L (16 h)
Method: DIN 38412
Daphnia toxicity, EC50, Daphnia magna: 1,55 mg/L (48 h)
Method: OECD 202
Algae toxicity, EbC50, Desmodesmus subspicatus: 623 mg/L (72 h)
Method: OECD 201
Daphnia toxicity, EC50, Daphnia magna: 297 mg/L (21 d)
Method: OECD 211
Daphnia toxicity, NOEC, Daphnia magna: 100 mg/L (21 d)
Method: OECD 211
Daphnia toxicity, growth test (Eb-Cx) 10%“, Daphnia magna: 134 mg/L (21 d)
Method: OECD 211
Algae toxicity, growth test (Eb-Cx) 10%“, Pseudokirchneriella subcapitata: 308 mg/L (72 h)
Method: OECD 201
Algae toxicity, Growth rate (ErCx) 10%, Pseudokirchneriella subcapitata: 679 mg/L (72 h)
Method: OECD 201

1-methoxy-2-propanol

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 1 mg/L (96 h)
Method: OECD 203
Daphnia toxicity, EC50, Daphnia magna: 21,1 mg/L 25,9 (48 h)
Method: ESR-ES-15
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1 mg/L (7 d)
Fish toxicity, LC50, Leuciscus idus (golden orfe) 4,6 - 10 mg/L (96 h)
Method: DIN 38412 / part 15
Acute aquatic toxicity Evaluation Based on available data, the classification criteria are not met.
Fish toxicity, LC50, Pimephales promelas (fathead minnow): 20,8 mg/L (96 h)
Bacteria toxicity, IC50, Activated sludge: 1 mg/L (3 h)

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Method: OECD 209

zinc oxide

Fish toxicity, LC50: > 10000 mg/L (96 h)

Solvent naphtha (petroleum), light arom.

Daphnia toxicity, EL50, Daphnia magna: 3,2 mg/L (48 h)

Method: OECD 202

Algae toxicity, EL50, Pseudokirchneriella subcapitata: 3,8 mg/L (72 h)

Method: OECD 201

Fish toxicity, LL50:, Oncorhynchus mykiss (Rainbow trout): 9,2 mg/L (96 h)

Method: OECD 203

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

Method: OECD 211

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

Method: US EPA 600/4-91-003

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

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

Method: OECD 211

ethylbenzene

Daphnia toxicity, NOEC, Ceriodaphnia dubia (Wasserfloh): 0,96 mg/L (7 d)

Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 3,4 mg/L (96 h)

Daphnia toxicity, LC50, Ceriodaphnia dubia (Wasserfloh): 3,6 mg/L (7 d)

Bacteria toxicity, EC50, Nitrosomonas sp: 96 mg/L (24 h)

Daphnia toxicity, LOEC:, Ceriodaphnia dubia (Wasserfloh): 1,7 mg/L (7 d)

butan-1-ol

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

Method: OECD 211

1-methoxy-2-propanol

Chronic aquatic toxicity Evaluation Based on available data, the classification criteria are not met.

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1 mg/L (7 d)

Solvent naphtha (petroleum), light arom.

Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 0,07 mg/L (72 h)

Method: OECD 201

12.2. Persistence and degradability

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight \leq 700

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)

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-butoxyethanol

Biodegradation: 90,4 percent (28 d); Evaluation Readily biodegradable (according to OECD criteria).

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Method: OECD 301B

aerobic; activated sludge; based on: CO₂ formation (% of theoretical value).; The criterion for the 10 day time window is fulfilled.

1-methoxy-2-propanol

Persistence and degradability:

No data available

Biodegradation: 96 percent (28 d); Evaluation Readily biodegradable (according to OECD criteria).

Method: OECD 301E

Solvent naphtha (petroleum), light arom.

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

12.3. Bioaccumulative potential

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

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

No data available

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-butoxyethanol

Distribution coefficient n-octanol/water (log KOW): 0,81 ; Evaluation Bioaccumulation is not to be expected.

1-methoxy-2-propanol

Distribution coefficient n-octanol/water (log KOW): < 1 ; Evaluation The product has a low bioaccumulation potential

Solvent naphtha (petroleum), light arom.

Distribution coefficient n-octanol/water (log KOW): 3,7 - 4,5

Bioconcentration factor (BCF)

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

Bioconcentration factor (BCF): 31

1-methoxy-2-propanol

Bioconcentration factor (BCF): 3,16

12.4. Mobility in soil

reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700

soil:

No data available

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.

2-butoxyethanol

Water: Evaluation The substance does not evaporate from the water surface into the atmosphere.

The product is water soluble.

soil: Evaluation Adsorption at ground level not to be expected.

1-methoxy-2-propanol

soil: Evaluation Highly mobile in the ground

Water: Evaluation The product is insoluble in water.

Solvent naphtha (petroleum), light arom.

soil:

No data available

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.

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- 12.6. **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.

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

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 / BISPHENOL A EPOXY RESIN

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

tunnel restriction code D/E

Sea transport (IMDG)

EmS-No. F-E, S-E

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

not applicable

SECTION 15: Regulatory information

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

EU legislation

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 361

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).

15.2. Chemical Safety Assessment

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

EC No. CAS No.	Designation	REACH No.
500-033-5 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700	01-2119456619-26
231-944-3 7779-90-0	trizinc bis(orthophosphate)	01-2119485044-40
215-535-7 1330-20-7	Xylene	01-2119488216-32
265-199-0 64742-95-6	Solvent naphtha (petroleum), light arom.	01-2119455851-35
203-539-1 107-98-2	1-methoxy-2-propanol	01-2119457435-35
202-849-4 100-41-4	ethylbenzene	01-2119489370-35
200-751-6 71-36-3	butan-1-ol	01-2119484630-38
203-905-0 111-76-2	2-butoxyethanol	01-2119475108-36
215-222-5 1314-13-2	zinc oxide	01-2119463881-32-XXXX
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

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.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
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 repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.

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 Irrit. 2	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

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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.

* Data changed compared with the previous version