

Safety Data Sheet

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

Article No.: 475 BRICAPAT Eisenglimmer-Farbe DS
Print date: 26.12.2022 Revision date: 10.12.2022 EN
Version: 8.0 Issue date: 10.12.2022 Page 1 / 17

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

1.1. product identifiers

Article No. (manufacturer/supplier) 475
Trade name/designation BRICAPAT Eisenglimmer-Farbe DS
2 in 1

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)

Knuchel Farben AG
Farben + Lacke Telephone: +41 (0) 32 636 50 40
Steinackerweg 11 Telefax: +41 (0) 32 636 50 45
CH-4537 Wiedlisbach

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 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.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
P260	Do not breathe vapour.
P261	Avoid breathing vapours.

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P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
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.
P314	Get medical advice/attention if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: 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

maleic anhydride
Xylene
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
reaction product of sunflower-oil fatty acids, tall-oil fatty acids and maleic anhydride

Supplemental hazard information

not applicable

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description chlorinated polymer 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-%
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	15 - 25
204-658-1 123-86-4 607-025-00-1 919-446-0	01-2119485493-29 n-butyl acetate Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066	5 - 10
202-849-4 100-41-4 601-023-00-4	01-2119458049-33 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) STOT SE 3 H336 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411 / Flam. Liq. 3 H226	5 - 10
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
231-944-3 7779-90-0 030-011-00-6	01-2119485044-40 trizinc bis(orthophosphate) Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	1 - 5
203-631-1 108-94-1 606-010-00-7	01-2119453616-35 Cyclohexanone Acute Tox. 4 H332 / Flam. Liq. 3 H226 Acute toxicity estimate (ATE), ATE (inhalation, vapour): 11.00 mg/L	1 - 5

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216-823-5 1675-54-3 603-073-00-2	01-2119456619-26 reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700 Eye Irrit. 2 H319 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 Specific concentration limit (SCL): Eye Irrit. 2 H319 >= 5 / Skin Irrit. 2 H315 >= 5	0.5 - 1
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 - 1
288-306-2 85711-46-2	01-2119976378-19 reaction product of sunflower-oil fatty acids, tall-oil fatty acids and maleic anhydride Skin Irrit. 2 H315 / Skin Sens. 1 H317	0.1 - 0.5
203-571-6 108-31-6 607-096-00-9	01-2119463268-32 maleic anhydride Acute Tox. 4 H302 / STOT RE 1 H372 / Skin Corr. 1B H314 / Eye Dam. 1 H318 / Resp. Sens. 1 H334 / Skin Sens. 1A H317 / EUH071 Specific concentration limit (SCL): Skin Sens. 1A H317 >= 0.001	0.001 - 0.005

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.

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

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WEL, TWA: 441 mg/m³; 100 ppm
WEL, STEL: 552 mg/m³; 125 ppm
Remark: (may be absorbed through the skin)

Cyclohexanone

Index No. 606-010-00-7 / EC No. 203-631-1 / CAS No. 108-94-1

WEL, TWA: 41 mg/m³; 10 ppm
WEL, STEL: 82 mg/m³; 20 ppm
Remark: (may be absorbed through the skin)

BMGV, TWA: 2 mmol/mol creatinine

Remark: cyclohexanol; urine; end of exposure or end of shift

maleic anhydride

Index No. 607-096-00-9 / EC No. 203-571-6 / CAS No. 108-31-6

WEL, TWA: 1 mg/m³
WEL, STEL: 3 mg/m³

Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

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

Index No. 603-073-00-2 / EC No. 216-823-5 / CAS No. 1675-54-3

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 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: 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

Cyclohexanone

Index No. 606-010-00-7 / EC No. 203-631-1 / CAS No. 108-94-1

DNEL acute dermal, short-term (systemic), Workers: 100 mg/kg bw/day

DNEL long-term dermal (systemic), Workers: 10 mg/kg bw/day

DNEL acute inhalative (local), Workers: 100 mg/m³

DNEL acute inhalative (systemic), Workers: 100 mg/m³

DNEL long-term inhalative (local), Workers: 20 mg/m³

DNEL long-term inhalative (systemic), Workers: 20 mg/m³

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:
The substance is skin resorptive (can enter the body through the skin).
DNEL long-term oral (repeated), Consumer: 5 mg/kg bw/day
DNEL acute dermal, short-term (systemic), Consumer: 30 mg/kg bw/day
DNEL long-term dermal (systemic), Consumer: 20 mg/kg bw/day
DNEL acute inhalative (local), Consumer: 50 mg/m³
DNEL acute inhalative (systemic), Consumer: 50 mg/m³
DNEL long-term inhalative (local), Consumer: 20 mg/m³
DNEL long-term inhalative (systemic), Consumer: 20 mg/m³
DNEL acute oral (systemic): 10 mg/kg bw/day

n-butyl acetate

Index No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

DNEL short-term oral (acute), Workers:
DNEL long-term inhalative (systemic), Workers: 480 mg/m³
DNEL long-term inhalative (systemic), Consumer: 102,34 mg/m³

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

EC No. 919-446-0

DNEL long-term dermal (local), Workers: 44 mg/kg
DNEL long-term dermal (systemic), Workers: 44 mg/kg
DNEL acute inhalative (local), Workers: 570 mg/m³
DNEL acute inhalative (systemic), Workers: 570 mg/m³
DNEL long-term inhalative (local), Workers: 330 mg/m³
DNEL long-term inhalative (systemic), Workers: 330 mg/m³
DNEL long-term oral (repeated), Consumer: 26 mg/kg
DNEL long-term dermal (local), Consumer: 26 mg/kg
DNEL long-term dermal (systemic), Consumer: 26 mg/kg
DNEL acute inhalative (local), Consumer: 570 mg/m³
DNEL long-term inhalative (local), Consumer: 71 mg/m³
DNEL long-term inhalative (systemic), Consumer: 71 mg/m³

PNEC:

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

Index No. 603-073-00-2 / EC No. 216-823-5 / CAS No. 1675-54-3

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. 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

Cyclohexanone

Index No. 606-010-00-7 / EC No. 203-631-1 / CAS No. 108-94-1

PNEC aquatic, freshwater: 0,0329 mg/L
PNEC aquatic, marine water: 0,0032 mg/L

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PNEC aquatic, intermittent release: 0,329 mg/L
PNEC sediment, freshwater: 0,0951 mg/kg Sediment dry weight
PNEC, soil: 0,0143 mg/kg dw
PNEC sewage treatment plant (STP): 10 mg/L

n-butyl acetate

Index No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

PNEC aquatic, freshwater: 0,18 mg/L
PNEC aquatic, marine water: 0,018 mg/L
PNEC aquatic, intermittent release: 0,36 mg/L
PNEC sediment, freshwater: 0,981 mg/kg Sediment dry weight
PNEC sediment, marine water: 0,0981 mg/kg Sediment dry weight
PNEC, soil: 0,0903 mg/kg Sediment dry weight
PNEC sewage treatment plant (STP): 35,6 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. 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:	126 °C Source: n-butyl acetate
Flammability:	Flammable liquid and vapour.
Lower and upper explosion limit:	
Lower explosion limit:	0.91 Vol-%
Upper explosion limit:	8 Vol-% Source: Xylene
Flash point:	25 °C Method: DIN 53213
Auto-ignition temperature:	270 °C Source: Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

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Decomposition temperature:	not applicable
pH at 20 °C:	not applicable
Cinematic viscosity (40°C):	< 400 mm²/s
Viscosity at 20 °C:	1700 - 2100 mPas
Solubility(ies):	
Water solubility at 20 °C:	insoluble
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	13 mbar Source: n-butyl acetate
Density and/or relative density:	
Density at 20 °C:	1.34 g/cm³
Relative vapour density:	not applicable
particle characteristics:	not applicable
9.2. Other information	
Solid content:	63 weight-%
solvent content:	
Organic solvents:	36 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

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, 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

Cyclohexanone

oral, LD50, Rat: 1535 mg/kg

dermal, LD50, Rabbit: 948 mg/kg

inhalative (vapours), LC50, Rat: 11 mg/L (4 h)

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n-butyl acetate
oral, LD50, Rat: 10760 mg/kg
Method: OECD 423
dermal, LD50, Rabbit: 14112 mg/kg
Method: OECD 402
inhalative (dust and mist), LC50, Rat: 23,4 mg/L (4 h)
Method: OECD 403

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
oral, LD50, Rat: 15000 mg/kg
Method: OECD 401
dermal, LD50, Rat: > 2000 mg/kg
dermal, LD50, Rabbit: > 4 mg/kg
inhalative (vapours), LC50, Rat: 13,1 mg/L (4 h)

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

Cyclohexanone

Skin (4 h)

Method: OECD 404

Irritating to skin and mucous membranes.

eyes

n-butyl acetate

Skin, Rabbit (4 h)

Method: OECD 404

No skin irritation

eyes

Method: OECD 405

No eye irritation

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Skin (4 h)

Causes skin irritation.

eyes

Causes serious 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

Cyclohexanone

Skin: ; Evaluation not sensitising.

Respiratory system: ; Evaluation not sensitising.

n-butyl acetate

Skin, Guinea pig: ; Evaluation not sensitising.

Method: OECD 406

Mouse mouse ear swelling test (MEST)

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Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Skin:

No data available (human)

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

Carcinogenicity; Evaluation negative

Method: OECD 453

Mouse; dermal; 2 years; 3 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

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

Cyclohexanone

Germ cell mutagenicity; Evaluation Based on available data, the classification criteria are not met.

Carcinogenicity; Evaluation Based on available data, the classification criteria are not met.

Reproductive toxicity; Evaluation Based on available data, the classification criteria are not met.

teratogenicity; Evaluation Based on available data, the classification criteria are not met.

n-butyl acetate

Germ cell mutagenicity; Evaluation Ames test negative.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Lactation

No data available

STOT-single exposure; STOT-repeated exposure

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May cause damage to organs through prolonged or 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

Repeated dose toxicity, Rat: 75 mg/kg

Method OECD 407

RTECS-no.: DA0700000

Depression of central nervous system

movement disorders; headache; Vomiting

Cyclohexanone

Specific target organ toxicity (single exposure) Evaluation Inhalation of high vapour concentrations can lead to CNS depression and anesthesia.

headache; Unconsciousness

Specific target organ toxicity (repeated exposure)

No data available

n-butyl acetate

Specific target organ toxicity (single exposure)

central nervous system; May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

human; Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).; Steam in high concentration leads to unconsciousness.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Specific target organ toxicity (single exposure)

May cause respiratory irritation.; May cause drowsiness or dizziness.

Aspiration hazard

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

Aspiration hazard

No data available

Cyclohexanone

Aspiration hazard

No data available

n-butyl acetate

Aspiration hazard; Evaluation No classification for aspiration toxicity

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Aspiration hazard

Based on available data, the classification criteria are not met.

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

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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

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*: 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

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)
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)

Cyclohexanone

Fish toxicity, LC50, *Pimephales promelas* (fathead minnow) 527 - 732 mg/L (96 h)
Daphnia toxicity, EC50: 820 mg/L (48 h)
Fish toxicity, LC50, *Leuciscus idus* (golden orfe) 536 - 752 (48 h)
Daphnia toxicity, LC50, *Daphnia magna* (Big water flea): 800 mg/L (24 h)
Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 820 (24 h)
Algae toxicity, EC50, *Chlamydomonas reinhardtii*: 32,9 mg/L (72 h)
Algae toxicity, EC10, *Chlamydomonas reinhardtii*: 3,56 mg/L (72 h)

n-butyl acetate

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)
Algae toxicity, ErC50
Algae toxicity, EC50, *Desmodesmus subspicatus*: 647,7 mg/L (72 h)
(Growth inhibition)
Algae toxicity, NOEC, *Desmodesmus subspicatus*: 200 mg/L
Bacteria toxicity, IC50, *Tetrahymena*: 356 mg/L (40 h)

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Fish toxicity, LL50:, *Oncorhynchus mykiss* (Rainbow trout) 10 - 30 mg/L (96 h)
Method: OECD 203
Daphnia toxicity, EL50, *Daphnia magna* (Big water flea) 10 - 22 mg/L (48 h)
Method: OECD 202

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Algae toxicity, ELb50, *Pseudokirchneriella subcapitata* 4,1 - 4,6 mg/L (72 h)
Method: OECD 201

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)

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
Daphnia toxicity, EC50: 9 mg/L (48 h)

12.2. Persistence and degradability

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

Cyclohexanone

Persistence and degradability:
No data available
Biodegradation: 90 - 100 percent (28 d); Evaluation Readily biodegradable (according to OECD criteria) ; Exposure duration: 14 days = 87 %

n-butyl acetate

Persistence and degradability: Evaluation No data available
Biodegradation: 83 percent (28 d); Evaluation Readily biodegradable (according to OECD criteria).
Method: OECD 301D
aerobic.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
Biodegradation: 74,7 percent (28 d)

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

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Cyclohexanone

Distribution coefficient n-octanol/water (log KOW): 0,86 ; Evaluation The product has a low bioaccumulation potential

n-butyl acetate

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

No data available

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

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

No data available

Bioconcentration factor (BCF)

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

Bioconcentration factor (BCF): 31

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Bioconcentration factor (BCF): 500

high

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

Cyclohexanone

soil: Evaluation Highly mobile in the ground

n-butyl acetate

:

No data available

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

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.

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

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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)	
Tunnel restriction code	D/E
in packages <= 5 litres	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): 492

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
204-658-1 123-86-4	n-butyl acetate	01-2119485493-29
919-446-0	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	01-2119458049-33
202-849-4 100-41-4	ethylbenzene	01-2119489370-35
231-944-3 7779-90-0	trizinc bis(orthophosphate)	01-2119485044-40
203-631-1 108-94-1	Cyclohexanone	01-2119453616-35
216-823-5 1675-54-3	reaction product: bisphenol-A-(epichlorhydrin) with average molecular weight ≤ 700	01-2119456619-26

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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
288-306-2 85711-46-2	reaction product of sunflower-oil fatty acids, tall-oil fatty acids and maleic anhydride	01-2119976378-19
203-571-6 108-31-6	maleic anhydride	01-2119463268-32

SECTION 16: Other information

Full text of classification in section 3

Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H335	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.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
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.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
STOT RE 1 / H372	STOT-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).
Skin Corr. 1B / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Resp. Sens. 1 / H334	Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1A / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.

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.
STOT RE 2	STOT-repeated exposure	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

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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.