

Safety Data Sheet

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

Article No.:	26	Universal-Verdünnern U1	
Print date:	26.12.2022	Revision date: 15.12.2022	EN
Version:	9.1	Issue date: 15.12.2022	Page 1 / 17

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

1.1. product identifiers

Article No. (manufacturer/supplier)	26
Trade name/designation	Universal-Verdünnern U1

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

Relevant identified uses:

Solvent / Thinner

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. 2 / H225	Flammable liquids	Highly 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.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging the unborn child.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.

2.2. Label elements

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

Hazard pictograms



Danger

Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361	Suspected of damaging the unborn child.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.

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.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use non-sparking tools.

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P243	Take action to prevent static discharges.
P260	Do not breathe vapour.
P261	Avoid breathing vapours.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye/face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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].
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation 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.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Keep locked up.
P501	Dispose of contents/container to industrial incineration plant.

Hazard components for labelling

Toluene
Xylene

Supplemental hazard information

not applicable

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description Solvents/Thinner

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

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
203-625-9 108-88-3 601-021-00-3	01-2119471310-51 Toluene Flam. Liq. 2 H225 / Repr. 2 H361 / Asp. Tox. 1 H304 / STOT RE 2 H373 / Skin Irrit. 2 H315 / STOT SE 3 H336	25 - 40
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
201-159-0 78-93-3 606-002-00-3	01-2119457290-43 butanone Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	10 - 15
200-661-7 67-63-0 603-117-00-0	01-2119457558-25 propan-2-ol Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	10 - 15
204-658-1 123-86-4 607-025-00-1	01-2119485493-29 n-butyl acetate Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066	5 - 10
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	5 - 10

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202-849-4	01-2119489370-35	
100-41-4	ethylbenzene	5 - 10
601-023-00-4	Flam. Liq. 2 H225 / Acute Tox. 4 H332 / STOT RE 2 H373 / Asp. Tox. 1 H304	

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

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

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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:

Toluene

Index No. 601-021-00-3 / EC No. 203-625-9 / CAS No. 108-88-3

WEL, TWA: 191 mg/m³; 50 ppm

WEL, STEL: 384 mg/m³; 100 ppm

Remark: (may be absorbed through the skin)

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

butanone

Index No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3

WEL, TWA: 600 mg/m³; 200 ppm

WEL, STEL: 899 mg/m³; 300 ppm

propan-2-ol

Index No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

WEL, TWA: 999 mg/m³; 400 ppm

WEL, STEL: 1250 mg/m³; 500 ppm

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

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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)

Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

Toluene

Index No. 601-021-00-3 / EC No. 203-625-9 / CAS No. 108-88-3

DNEL long-term dermal (systemic), Workers: 384 mg/kg bw/day

DNEL acute inhalative (local), Workers: 384 mg/m³

DNEL acute inhalative (systemic), Workers: 384 mg/m³

DNEL long-term inhalative (local), Workers: 192 mg/m³

DNEL long-term inhalative (systemic), Workers: 192 mg/m³

DNEL long-term oral (repeated), Consumer: 8,13 mg/kg bw/day

DNEL long-term dermal (systemic), Consumer: 226 mg/kg bw/day

DNEL acute inhalative (local), Consumer: 226 mg/m³

DNEL acute inhalative (systemic), Consumer: 226 mg/m³

DNEL long-term inhalative (local), Consumer: 56,5 mg/m³

DNEL long-term inhalative (systemic), Consumer: 56,5 mg/m³

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

butanone

Index No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3

DNEL long-term dermal (systemic), Workers: 1161 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 600 mg/m³

DNEL long-term dermal (systemic), Consumer: 412 mg/kg bw/day

DNEL long-term inhalative (systemic), Consumer: 106 mg/m³

Long-term - oral, systemic effects, Consumer: 31 mg/kg bw/day

1-methoxy-2-propanol

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

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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

propan-2-ol

Index No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

DNEL acute dermal, short-term (systemic), Workers: 888 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 500 mg/m³

DNEL long-term oral (repeated), Consumer: 26 mg/kg bw/day

DNEL long-term dermal (systemic), Consumer: 319 mg/kg bw/day

DNEL long-term inhalative (systemic), Consumer: 89 mg/m³

PNEC:

Toluene

Index No. 601-021-00-3 / EC No. 203-625-9 / CAS No. 108-88-3

PNEC aquatic, freshwater: 0,68 mg/L

PNEC aquatic, marine water: 0,68 mg/L

PNEC sediment, freshwater: 16,39 mg/kg

PNEC sediment, marine water: 16,39 mg/kg

PNEC, soil: 2,89 mg/kg

PNEC sewage treatment plant (STP): 13,61 mg/L

PNEC Waters, sporadic release: 0,68 mg/L

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

butanone

Index No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3

PNEC aquatic, freshwater: 55,8 mg/L

PNEC aquatic, marine water: 55,8 mg/L

PNEC aquatic, intermittent release: 55,8 mg/L

PNEC sediment, freshwater: 284,7 mg/kg Sediment dry weight

PNEC sediment, marine water: 284,7 mg/kg Sediment dry weight

PNEC, soil: 22,5 mg/kg

PNEC sewage treatment plant (STP): 709 mg/L

PNEC Secondary Poisoning: 1000 mg/kg food

oral

1-methoxy-2-propanol

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

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

n-butyl acetate

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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

propan-2-ol

Index No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0
PNEC aquatic, freshwater: 140,9 mg/L
PNEC aquatic, marine water: 140,9 mg/L
PNEC aquatic, intermittent release: 140,9 mg/L
PNEC sediment, freshwater: 552 mg/kg dw
PNEC sediment, marine water: 552 mg/kg dw
PNEC, soil: 28 mg/kg
PNEC sewage treatment plant (STP): 2251 mg/L
PNEC Secondary Poisoning: 160 mg/kg food

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:	79 °C Source: butanone
Flammability:	Highly flammable liquid and vapour.
Lower and upper explosion limit:	
Lower explosion limit:	1.27 Vol-%
Upper explosion limit:	13.7 Vol-% Source: 1-methoxy-2-propanol
Flash point:	4 °C

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Method: DIN 53213

Auto-ignition temperature:

287 °C

Source: 1-methoxy-2-propanol

Decomposition temperature:

not applicable

pH at 20 °C:

not applicable

Cinematic viscosity (40°C):

< 20 mm²/s

Viscosity at 20 °C:

10 - 12 sec DIN 4 mm

Solubility(ies):

Water solubility at 20 °C:

partially soluble

Partition coefficient: n-octanol/water:

see section 12

Vapour pressure at 20 °C:

105 mbar

Source: butanone

Density and/or relative density:

Density at 20 °C:

0.85 g/cm³

Relative vapour density:

not applicable

particle characteristics:

not applicable

9.2. Other information

Solid content:

0 weight-%

solvent content:

Organic solvents:

100 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

Toluene

oral, LD50, Rat: 636 mg/kg

Neurotoxicology. Vol. 2, Pg. 567, 1981

dermal, LD50, Rat: 12200 mg/kg

American Industrial Hygiene Association Journal. Vol. 30, Pg. 470, 1969

inhalative (vapours), LC50, Rat: 28,1 mg/L (4 h)

Method: OECD 403

oral, LD50, Rat, male: 5580 mg/kg

Method: EU Test B.1

dermal, LD50, Rabbit, male: > 5000

Xylene

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

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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

butanone
oral, LD50, Rat: 2193 mg/kg ; Evaluation Slightly toxic
Method: OECD 423
dermal, LD50, Rabbit: > 5000 mg/kg
Method: OECD 402
Slightly toxic
inhalative (vapours), LD50, Rat: 34,5 mg/L

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

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

propan-2-ol
oral, LD50, Rat: 5840 mg/kg
Method: OECD 401
dermal, LD50, Rabbit: 13900 mg/kg
Method: OECD 402
inhalative (vapours), LC50, Rat: > 25 mg/L (6 h)
Method: OECD 403

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye irritation.

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

butanone
Skin, Rabbit (4 h)
Method: OECD 404
May dry out the skin and cause discomfort and skin inflammation.
eyes, Rabbit
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
Not to be classified as severe eye damage or eye irritation.

n-butyl acetate
Skin, Rabbit (4 h)
Method: OECD 404

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No skin irritation

eyes

Method: OECD 405

No eye irritation

propan-2-ol

Skin (4 h)

Method: OECD 404

Degreases the skin and makes it dry and rough. ; Prolonged or repeated contact may cause dermatitis.

eyes

Method: OECD 405

Splashes in the eyes can cause severe pain. Steam is irritant.

Respiratory or skin sensitisation

butanone

Skin, Maximization test, Guinea pig: ; Evaluation not sensitising.

Method: OECD 406

Respiratory system, Maximization test, Guinea pig: ; Evaluation not sensitising.

Method: OECD 406

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, Guinea pig: ; Evaluation not sensitising.

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

n-butyl acetate

Skin, Guinea pig: ; Evaluation not sensitising.

Method: OECD 406

Mouse mouse ear swelling test (MEST)

propan-2-ol

Skin, Guinea pig: ; Evaluation not sensitising.

Method: OECD 406

Buhler test

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Suspected of damaging the unborn child.

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

butanone

Germ cell mutagenicity; Evaluation Not known as germ cell mutagen. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 471 473 474 476.

Carcinogenicity; Evaluation Not known to cause cancer.

Reproductive toxicity; Evaluation Is not known to be toxic to reproduction.

Based on test results for structurally similar substances. Test(s) equivalent or similar to OECD Guideline 414 416.

Lactation; Evaluation No harmful effect on infants known through breast milk.

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 Does not qualify as a carcinogen.

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.

In animal experiments, the substance showed a fruit-damaging effect in high doses, which were toxic for the mother animals.

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n-butyl acetate

Germ cell mutagenicity; Evaluation Ames test negative.

propan-2-ol

Germ cell mutagenicity; Evaluation In vitro tests showed no mutagenic effects.

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

Reproductive toxicity; Evaluation In vitro tests showed no mutagenic effects.

Method: NOAEL (Parents)

853 mg/kg body weight/day (One-generation reproductive toxicity study; rat, Wistar, male and female)(Oral)(OECD Test

Guideline 415)No negative effects. ; 500 mg/kg body weight/day (Two-generation reproductive toxicity test; rat,

Sprague-Dawley, male and female)(Oral)(OECD Test Guideline 416)No negative effects.

teratogenicity; Evaluation In vitro tests showed no mutagenic effects.

Genotoxicity in vitro; Evaluation negative

(Back mutation test on bacteria; Salmonella typhimurium; with and without metabolic activation) (OECD test guideline 471)

negative (in vitro gene mutation test on mammalian cells; CHO (Chinese hamster ovaries) cells; with and without metabolic activation) (OECD test guideline 476)

Genotoxicity in vivo; Evaluation negative

Method: OECD 474

(In vivo microkernel test; mouse, CD1) (intraperitoneal;)

STOT-single exposure; STOT-repeated exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or 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

butanone

Specific target organ toxicity (repeated exposure)

Liver damage is possible.; Danger of serious damage to health by prolonged exposure.

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).

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.

propan-2-ol

Specific target organ toxicity (single exposure)

central nervous system; May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

Repeated oral and inhalative exposure studies have shown that effects in target organs in both male rats (kidney) and male and female mice (thyroid gland) cannot be related to humans.

Aspiration hazard

May be fatal if swallowed and enters airways.

butanone

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Aspiration hazard; Evaluation Inhalation of high vapour concentrations may cause symptoms such as headache, dizziness, fatigue, nausea and vomiting.

Chronic exposure may cause dermatitis. ; Irritating to eyes and respiratory system.

1-methoxy-2-propanol

Aspiration hazard

Not to be classified as aspirational.

n-butyl acetate

Aspiration hazard; Evaluation No classification for aspiration toxicity

propan-2-ol

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

Danger of aspiration if swallowed - can get into the lungs and damage them.; Aspiration can lead to pulmonary edema and pneumonia.

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

Toluene

Fish toxicity, LC50, Oncorhynchus kisutch (silver salmon): 5,5 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia pulex (water flea): 3,78 mg/L (48 h)

Algae toxicity, EC50, Chlamydomonas angulosa: 134 mg/L (3 h)

Bacteria toxicity, EC50, Nitrosomonas sp: 84 mg/L (24 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)

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butanone

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 2993 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna: 308 mg/L (48 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 2029 mg/L (96 h)

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 - 25,9 mg/L (48 h)

Method: ESR-ES-15

Fish toxicity, LC50, Leuciscus idus (golden orfe) 4,6 - 10 mg/L (96 h)

Method: DIN 38412 / part 15

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

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)

Method: OECD 209

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)

propan-2-ol

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 9640 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, Daphnia magna: 9714 mg/L (24 h)

Method: OECD 202

Static test

Algae toxicity, EC50, Scenedesmus subspicatus: > 100 mg/L (72 h)

Algae toxicity, LOEC: 1000 mg/L (8 d)

Bacteria toxicity: 100 mg/L ; Evaluation No harmful effect

Long-term Ecotoxicity

Toluene

Fish toxicity, NOEC, Oncorhynchus kisutch (silver salmon): 1,39 mg/L (40 d)

Daphnia toxicity, NOEC, Daphnia pulex (water flea): 0,74 mg/L (7 d)

Fish toxicity, LOEC: , Oncorhynchus kisutch (silver salmon): 2,77 mg/L (40 d)

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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1-methoxy-2-propanol

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

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

12.2. Persistence and degradability

Toluene

Persistence and degradability: Evaluation Rapid photochemical oxidation in air

Biodegradation: 86 percent (20 d)

Readily biodegradable (according to OECD criteria)

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)

butanone

Hydrolysis: Evaluation No significant transformation due to hydrolysis is expected.

Photolysis: Evaluation Due to photolysis, no significant transformation is to be expected.

Air oxidation: Evaluation Moderate degradation is to be expected in air.

Biodegradation: 98 percent (28 d); Evaluation Readily biodegradable (according to OECD criteria).

1-methoxy-2-propanol

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

Method: OECD 301E

Persistence and degradability:

No data available

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.

propan-2-ol

Persistence and degradability:

Transformation by hydrolysis is not expected to be significant.

Biodegradation: 53 percent ; Evaluation Readily biodegradable (according to OECD criteria).

aerobic; domestic waste water; related to: O2 consumption; exposure duration: 5d)(Directive 67/548/EEC, Annex V, C.5.

12.3. Bioaccumulative potential

Toluene

Distribution coefficient n-octanol/water (log KOW): 2,65

Method: BCF: 90

The product has a low bioaccumulation potential

Xylene

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

ethylbenzene

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

1-methoxy-2-propanol

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

n-butyl acetate

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

No data available

propan-2-ol

Distribution coefficient n-octanol/water (log KOW): 0,05 ; Evaluation Bioaccumulation is not to be expected.

Bioconcentration factor (BCF)

Toluene

Bioconcentration factor (BCF): 90 ; Evaluation The product has a low bioaccumulation potential

1-methoxy-2-propanol

Bioconcentration factor (BCF): 3,16

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12.4. Mobility in soil

Toluene

Water: Evaluation Floats on the water
soil: Evaluation Mobile in the ground

Xylene

soil: Evaluation Absorbs slowly into the soil
Water: Evaluation Floats on the water

butanone

:

1-methoxy-2-propanol

soil: Evaluation Highly mobile in the ground
Water: Evaluation The product is insoluble in water.

n-butyl acetate

:

No data available

propan-2-ol

Water: Evaluation The product is water soluble.
soil: Evaluation Mobile in the ground

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

140603* other solvents and solvent mixtures

*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 1993

14.2. UN proper shipping name

Land transport (ADR/RID):

Flammable liquid, n.o.s.
(TOLUOL)

Sea transport (IMDG):

FLAMMABLE LIQUID, N.O.S.
(TOLUOL)

Air transport (ICAO-TI / IATA-DGR):

Flammable liquid, n.o.s.
(TOLUOL)

14.3. Transport hazard class(es)

3

14.4. Packing group

II

14.5. Environmental hazards

Land transport (ADR/RID)

not applicable

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Marine pollutant not applicable

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. 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): 854

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.
203-625-9 108-88-3	Toluene	01-2119471310-51
215-535-7 1330-20-7	Xylene	01-2119488216-32
201-159-0 78-93-3	butanone	01-2119457290-43
200-661-7 67-63-0	propan-2-ol	01-2119457558-25
204-658-1 123-86-4	n-butyl acetate	01-2119485493-29
203-539-1 107-98-2	1-methoxy-2-propanol	01-2119457435-35
202-849-4 100-41-4	ethylbenzene	01-2119489370-35

SECTION 16: Other information

Full text of classification in section 3

Flam. Liq. 2 / H225 Flammable liquids
Repr. 2 / H361 Reproductive toxicity
Asp. Tox. 1 / H304 Aspiration hazard
STOT RE 2 / H373 STOT-repeated exposure

Skin Irrit. 2 / H315 Skin corrosion/irritation
STOT SE 3 / H336 STOT-single exposure

Highly flammable liquid and vapour.
Suspected of damaging the unborn child.
May be fatal if swallowed and enters airways.
May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Causes skin irritation.
May cause drowsiness or dizziness.

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Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.

Classification procedure

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

Flam. Liq. 2	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.
Repr. 2	Reproductive toxicity	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.
STOT RE 2	STOT-repeated exposure	Calculation method.
Asp. Tox. 1	Aspiration hazard	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.