

# Safety Data Sheet

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

Article No.: 91  
Print date: 27.12.2022  
Version: 8.0

Nitro-Verdünner N1  
Revision date: 10.12.2022  
Issue date: 10.12.2022

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

### 1.1. product identifiers

Article No. (manufacturer/supplier) 91  
Trade name/designation Nitro-Verdünner N1

### 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

Steinackerweg 11

CH-4537 Wiedlisbach

Telephone: +41 (0) 32 636 50 40

Telefax: +41 (0) 32 636 50 45

#### 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 Dam. 1 / H318

Serious eye damage/eye irritation

Causes serious eye damage.

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.

May be fatal if swallowed and enters airways.

Asp. Tox. 1 / H304

Aspiration hazard

### 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.

H318

Causes serious eye damage.

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.

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.

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.  
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.  
P310 Immediately call a POISON CENTER or doctor/ physician.  
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.  
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

butan-1-ol  
Xylene  
Ethyl acetate

## 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-%
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	25 - 40
205-500-4 141-78-6 607-022-00-5	01-2119475103-46 Ethyl acetate Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	25 - 40
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	25 - 40
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
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	5 - 10
200-751-6 71-36-3 603-004-00-6	01-2119484630-38 butan-1-ol Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / STOT SE 3 H335 / STOT SE 3 H336 / Flam. Liq. 3 H226 Acute toxicity estimate (ATE), ATE (oral): 2292 mg/kg bw	5 - 10

## Additional information

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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

### 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

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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/m<sup>3</sup>; 50 ppm

WEL, STEL: 441 mg/m<sup>3</sup>; 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

Ethyl acetate

Index No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

WEL, TWA: 734 mg/m<sup>3</sup>; 200 ppm

WEL, STEL: 1468 mg/m<sup>3</sup>; 400 ppm

propan-2-ol

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

WEL, TWA: 999 mg/m<sup>3</sup>; 400 ppm

WEL, STEL: 1250 mg/m<sup>3</sup>; 500 ppm

ethylbenzene

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

WEL, TWA: 441 mg/m<sup>3</sup>; 100 ppm

WEL, STEL: 552 mg/m<sup>3</sup>; 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/m<sup>3</sup>; 50 ppm

Remark: (may be absorbed through the skin)

#### Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

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Ceiling : peak limitation

**DNEL:**

Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7  
DNEL long-term dermal (systemic), Workers: 212 mg/kg bw/day  
DNEL acute inhalative (local), Workers: 442 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Workers: 442 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Workers:  
DNEL long-term inhalative (systemic), Workers: 221 mg/m<sup>3</sup>  
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/m<sup>3</sup>  
DNEL acute inhalative (systemic), Consumer: 260 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Consumer: 65,3 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 65,3 mg/m<sup>3</sup>

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/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 1,6 mg/kg bw/day  
DNEL long-term inhalative (systemic), Consumer: 15 mg/m<sup>3</sup>

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/m<sup>3</sup>  
DNEL acute inhalative (systemic), Workers: 310 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Workers: 310 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 310 mg/m<sup>3</sup>  
DNEL long-term oral (local): 3,125 mg/kg  
DNEL long-term inhalative (local), Consumer: 55 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 55 mg/m<sup>3</sup>

Ethyl acetate

Index No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6  
DNEL long-term dermal (systemic), Workers: 63 mg/kg  
DNEL acute inhalative (local), Workers: 1468 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Workers: 1468 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Workers: 734 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 734 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 4,5 mg/kg  
DNEL long-term dermal (systemic), Consumer: 37 mg/kg bw/day  
DNEL acute inhalative (local), Consumer: 734 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Consumer: 734 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Consumer: 367 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 367 mg/m<sup>3</sup>

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/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 102,34 mg/m<sup>3</sup>

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/m<sup>3</sup>  
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/m<sup>3</sup>

**PNEC:**

Xylene

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

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

## ethylbenzene

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

PNEC aquatic, freshwater: 0,1 mg/L  
PNEC aquatic, marine water: 0,01 mg/L  
PNEC sediment, freshwater: 13,7 mg/kg  
PNEC sediment, marine water: 1,37 mg/kg  
PNEC, soil: 2,68 mg/kg  
PNEC sewage treatment plant (STP): 9,6 mg/L

## butan-1-ol

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

PNEC aquatic, freshwater: 0,082 mg/L  
PNEC aquatic, marine water: 0,0082 mg/L  
PNEC aquatic, intermittent release: 2,25 mg/L  
PNEC sediment, freshwater: 0,178 mg/kg  
PNEC sediment, marine water: 0,0178 mg/kg  
PNEC, soil: 0,015 mg/kg  
PNEC sewage treatment plant (STP): 2476 mg/L

## Ethyl acetate

Index No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

PNEC aquatic, freshwater: 0,24 mg/L  
PNEC aquatic, marine water: 0,024 mg/L  
PNEC aquatic, intermittent release: 1,65 mg/L  
PNEC sediment, freshwater: 1,15 mg/kg  
PNEC sediment, marine water: 0,115 mg/kg  
PNEC, soil: 0,148 mg/kg  
PNEC sewage treatment plant (STP): 650 mg/L  
PNEC Secondary Poisoning: 200 mg/kg food

## 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

## 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.

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## 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:	76 °C Source: Ethyl acetate
Flammability:	Highly flammable liquid and vapour.
Lower and upper explosion limit:	
Lower explosion limit:	1.39 Vol-%
Upper explosion limit:	12 Vol-% Source: propan-2-ol
Flash point:	-4 °C Method: DIN 53213
Auto-ignition temperature:	360 °C Source: butan-1-ol
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:	97 mbar Source: Ethyl acetate
Density and/or relative density:	
Density at 20 °C:	0.87 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-%

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### 10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5. Incompatible materials

not applicable

### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Xylene

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

Method: EU Test B.1

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

##### ethylbenzene

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

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

##### butan-1-ol

oral, LD50, Rat: 2292 mg/kg

Method: OECD 401

Harmful if swallowed.

dermal, LD50, Rabbit: 3430 mg/kg

Method: OECD 402

##### Ethyl acetate

oral, LD50, Rat: 5620 mg/kg

dermal, LD50, Rabbit: > 20000 mg/kg

oral, LD50, Rabbit: 4934

Method: OECD 401

inhalative (vapours), LC0, Rat: 29,3 (4 h)

inhalative (vapours), LCLo, Rat: > 6000 ppm (6 h)

inhalative (vapours), LD50, Rabbit, male: > 2000 mg/kg

##### 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**



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Causes skin irritation.

Causes serious eye damage.

ethylbenzene

Skin, Rabbit (24 h)

Causes mild skin irritation.

eyes, Rabbit

Causes slight eye irritation

butan-1-ol

Skin, Rabbit (4 h)

Method: BASF - Test

eyes, Rabbit

Ethyl acetate

Skin (4 h)

No skin irritation (rabbit). Degreases the skin and makes it dry and rough. Prolonged or repeated skin contact can lead to dermatitis.

eyes

Moderate eye irritation (rabbit).

n-butyl acetate

Skin, Rabbit (4 h)

Method: OECD 404

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

Ethyl acetate

Skin, Guinea pig: ; Evaluation not sensitising.

Method: OECD 406

Maximization test

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)

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

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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

**Ethyl acetate**

Germ cell mutagenicity; Evaluation In vitro tests showed no mutagenic effects.  
Carcinogenicity; Evaluation Didn't show any carcinogenic effects in animal tests.  
Reproductive toxicity; Evaluation No reproductive toxicity  
Genotoxicity in vitro; Evaluation negative  
(Chromosome aberration test in vitro; CHO (Chinese hamster ovaries) cells; with and without metabolic activation) (OECD Test Guideline 473).; (Back mutation test on bacteria; Salmonella typhimurium) (OECD test guideline 471).  
Genotoxicity in vivo; Evaluation negative  
Method: OECD 474  
(Chromosome aberration test in vivo; Chinese hamster, male and female) (Oral).

**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

**Ethyl acetate**

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Specific target organ toxicity (single exposure)  
Inhalation; central nervous system; May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

No data available

Repeated dose toxicity: 900 mg/kg

Method NOAEL

Repeated dose toxicity, Rat: 3600 mg/kg (92 d)

Method LOAEL

oral

Repeated dose toxicity, Rat: 350 ppm (94 d)

Method NOEC

inhalative (vapours); 5 days/week

Repeated dose toxicity, Rat: 350 ppm (94 d)

Method LOEC:

inhalative (vapours); 5 days/week

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.

butan-1-ol

Aspiration hazard

Ethyl acetate

Aspiration hazard

no classification

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

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**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)

**butan-1-ol**

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

**Ethyl acetate**

Fish toxicity, LC50, *Pimephales promelas* (fathead minnow): 230 mg/L (96 h)  
Flow test; US-EPA  
Daphnia toxicity, EC50, *Daphnia magna*: 610 mg/L (48 h)  
Daphnia toxicity, EC50, *Daphnia cucullata* (Helmet water flea): 165 mg/L (48 h)  
Algae toxicity, EC50, *Desmodesmus subspicatus*: 5600 mg/L (48 h)  
Method: DIN 38412  
Static test; end; Rate of growth  
Algae toxicity, NOEC, *Desmodesmus subspicatus*: > 100 mg/L (72 h)  
Method: OECD 201  
Static test; end; Rate of growth  
Bacteria toxicity, EC10, *Photobacterium phosphoreum*: 1650 mg/L (15 min.)  
Static test; end; Rate of growth  
Bacteria toxicity, EC50, *Photobacterium phosphoreum*: 5870 mg/L (15 min.)  
Static test; end; Rate of growth

**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)

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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**

**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)

**butan-1-ol**

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

**Ethyl acetate**

Fish toxicity, NOEC, *Pimephales promelas* (fathead minnow): > 9,65 mg/L (32 d)  
Method: OECD 211  
semistatic

**12.2. Persistence and degradability**

**Xylene**

Persistence and degradability:  
Method: Rapid photochemical oxidation in air  
Biodegradation: 98 percent (28 d)  
Readily biodegradable (according to OECD criteria)

**ethylbenzene**

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

**butan-1-ol**

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

**Ethyl acetate**

Persistence and degradability: Evaluation The product evaporates easily from the water surface.  
Biodegradation: 79 percent (20 d); Evaluation Readily biodegradable (according to OECD criteria).  
Method: OECD 301D  
Related to: Biochemical oxygen demand

**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:

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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

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

Ethyl acetate

Partition coefficient: n-octanol/water:

Distribution coefficient n-octanol/water (log KOW): 0,68 ; Evaluation Bioaccumulation is not to be expected.

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)

Ethyl acetate

Bioconcentration factor (BCF): 30

## 12.4. Mobility in soil

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.

Ethyl acetate

Water: Evaluation Swims on water and does not dissolve.

Air: Evaluation Slightly volatile, quickly distributed in the air.

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

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\*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.  
(ethylacetate)

Sea transport (IMDG):

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

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

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

### 14.3. Transport hazard class(es)

3

### 14.4. Packing group

II

### 14.5. Environmental hazards

Land transport (ADR/RID)

not applicable

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): 866

#### 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
205-500-4 141-78-6	Ethyl acetate	01-2119475103-46

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204-658-1 123-86-4	n-butyl acetate	01-2119485493-29
200-661-7 67-63-0	propan-2-ol	01-2119457558-25
202-849-4 100-41-4	ethylbenzene	01-2119489370-35
200-751-6 71-36-3	butan-1-ol	01-2119484630-38

## 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.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
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. 2	Flammable liquids	On basis of test data.
Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Eye Dam. 1	Serious eye damage/eye irritation	Calculation method.
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



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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.