

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

**VFL**  
Vismara Farbladen

Article No.: 2568  
Print date: 10.02.2021  
Version: 1

Hardener Quick A-2605  
Revision date: 05.01.2021  
Issue date: 05.01.2021

EN  
Page 1 / 13

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

1.1. **product identifiers**

Article No. (manufacturer/supplier) 2568  
Trade name/designation Hardener Quick A-2605  
for 2K-ECLAPOX EP

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

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

**supplier (manufacturer/importer/downstream user/distributor)**  
Vismara Unternehmungen CH-5000 Aarau www.farbladen.ch

**Department responsible for information:**

Labor  
E-mail info@eclatin.ch

1.4. **Emergency telephone number**

Emergency telephone number +41 32 622 41 41  
Toxikologisches Zentrum +41 44 251 51 51

**SECTION 2: Hazards identification**

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

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

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

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye 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. 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.

2.2. **Label elements**

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

**Hazard pictograms**



**Hazard statements**

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe vapour.  
P261 Avoid breathing vapours.  
P280 Wear protective gloves and eye/face protection.  
P284 In case of inadequate ventilation wear respiratory protection.  
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.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
P370 + P378 In case of fire: Use extinguishing powder or sand to extinguish.

# Safety Data Sheet

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

Article No.: 2568  
Print date: 10.02.2021  
Version: 1

Hardener Quick A-2605  
Revision date: 05.01.2021  
Issue date: 05.01.2021

EN  
Page 2 / 13

P403 + P235 Store in a well-ventilated place. Keep cool.

## Hazard components for labelling

butan-1-ol  
Alkylated polyamine (cashew)  
Xylene  
Fatty acids, C18-unsaturated, dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

## Supplemental hazard information

not applicable

### 2.3. Other hazards

No information available.

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Description Polyaminaddukt

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

EC No.	REACH No.	weight-%
CAS No.	Designation	
Index No.	classification // Remark	
68413-28-5	Alkylated polyamine (cashew) Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317 / Resp. Sens. 1 H334	25 - 50
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	12.5 - 20
202-859-9 100-51-6 603-057-00-5	01-2119492630-38 benzyl alcohol Acute Tox. 4 H332 / Acute Tox. 4 H302	10 - 12.5
200-751-6 71-36-3 603-004-00-6	01-2119484630-38 butan-1-ol Flam. Liq. 3 H226 / Acute Tox. 4 H302 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / STOT SE 3 H336	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	2.5 - 5
605-296-0 162627-17-0	01-2119970640-38 Fatty acids, C18-unsaturated, dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine Skin Sens. 1 H317	< 0.5

## Additional information

Full text of classification: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, 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.

# Safety Data Sheet

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

Article No.: 2568  
Print date: 10.02.2021  
Version: 1

Hardener Quick A-2605  
Revision date: 05.01.2021  
Issue date: 05.01.2021

EN  
Page 3 / 13

## After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

## Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

## 4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

## 4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

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

#### Unsuitable extinguishing media

strong water jet

### 5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

### 6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### 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

# Safety Data Sheet

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

Article No.: 2568  
Print date: 10.02.2021  
Version: 1

Hardener Quick A-2605  
Revision date: 05.01.2021  
Issue date: 05.01.2021

EN  
Page 4 / 13

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

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)

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)

#### Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

#### DNEL:

Xylene

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

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

DNEL acute inhalative (local), Workers: 442 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Workers:

DNEL long-term inhalative (local), Workers: 221 mg/m<sup>3</sup>

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

# Safety Data Sheet

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

Article No.: 2568 Hardener Quick A-2605  
Print date: 10.02.2021 Revision date: 05.01.2021  
Version: 1 Issue date: 05.01.2021

EN  
Page 5 / 13

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>

benzyl alcohol

Index No. 603-057-00-5 / EC No. 202-859-9 / CAS No. 100-51-6

DNEL acute dermal, short-term (systemic), Workers: 40 mg/kg  
DNEL long-term dermal (systemic), Workers: 8 mg/kg  
DNEL acute inhalative (systemic), Workers: 110 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 22 mg/m<sup>3</sup>  
DNEL acute dermal, short-term (systemic), Consumer: 20 mg/kg  
DNEL long-term dermal (systemic), Consumer: 4 mg/kg  
DNEL acute inhalative (systemic), Consumer: 27 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 5,4 mg/m<sup>3</sup>

**PNEC:**

Xylene

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

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

ethylbenzene

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

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

butan-1-ol

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

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

benzyl alcohol

Index No. 603-057-00-5 / EC No. 202-859-9 / CAS No. 100-51-6

PNEC aquatic, freshwater: 1 mg/L  
PNEC aquatic, marine water: 0,1 mg/L  
PNEC aquatic, intermittent release: 2,3 mg/L  
PNEC sediment, freshwater: 5,27 mg/kg  
PNEC sediment, marine water: 0,527 mg/kg  
PNEC, soil: 0,456 mg/kg  
PNEC sewage treatment plant (STP): 39 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

# Safety Data Sheet

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

Article No.: 2568  
Print date: 10.02.2021  
Version: 1

Hardener Quick A-2605  
Revision date: 05.01.2021  
Issue date: 05.01.2021

EN  
Page 6 / 13

must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

## Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

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

## Eye/face protection

Wear closely fitting protective glasses in case of splashes.

## Body protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

## Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

## Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance:

Physical state: Liquid  
Colour: refer to label

Odour: characteristic

Odour threshold: not applicable

pH at 20 °C: not applicable

Melting point/freezing point: not applicable

Initial boiling point and boiling range: 116 °C  
Source: butan-1-ol

Flash point: 25 °C  
Method: DIN 53213

Evaporation rate: not applicable

#### flammability

Burning time: not applicable

#### Upper/lower flammability or explosive limits:

Lower explosion limit: 1.05 Vol-%

Upper explosion limit: 13 Vol-%  
Source: benzyl alcohol

Vapour pressure at 20 °C: 1.44 mbar

Vapour density: not applicable

#### Relative density:

Density at 20 °C: 1.27 g/cm<sup>3</sup>

#### Solubility(ies):

Water solubility at 20 °C: insoluble

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

Auto-ignition temperature: 360 °C  
Source: butan-1-ol

Decomposition temperature: not applicable

Viscosity at 20 °C: 115 s 6 mm  
Method: DIN 53211

Explosive properties: not applicable

Oxidising properties: not applicable

### 9.2. Other information

# Safety Data Sheet

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

Article No.: 2568  
Print date: 10.02.2021  
Version: 1

Hardener Quick A-2605  
Revision date: 05.01.2021  
Issue date: 05.01.2021

EN  
Page 7 / 13

<b>Solid content:</b>	<b>65 weight-%</b>
<b>solvent content:</b>	
<b>Organic solvents:</b>	<b>35 weight-%</b>
<b>Water:</b>	<b>0 weight-%</b>
<b>Solvent separation test:</b>	<b>&lt; 3 weight-% (ADR/RID)</b>

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

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

### 10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5. Incompatible materials

not applicable

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

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

### 11.1. Information on toxicological effects

#### Acute toxicity

##### Xylene

oral, LD50, Rat: 4300 mg/kg  
dermal, LD50, Rabbit: 2000 mg/kg  
oral, LD50, Rat, male: 5,523 mg/kg  
Method: EU Test B.1  
Algae toxicity, EC50, Pseudokirchneriella subcapitata: 2,2 mg/L (73 h)  
Method: OECD 201  
inhalative (vapours), LC50, Rat, male: 6700 ppm (4 h)

##### ethylbenzene

oral, LD50, Rat: 3,5 mg/kg  
dermal, LD50, Rabbit: 15,4 mg/kg

##### butan-1-ol

oral, LD50, Rat: 2292 mg/kg  
Method: OECD 401  
Harmful if swallowed.  
dermal, LD50, Rabbit: 3430 mg/kg  
Method: OECD 402

##### benzyl alcohol

oral, LD50, Rat: 1,23 mg/kg  
dermal, LD50, Rat: 1,23 mg/kg  
dermal, LD50, Rabbit: 2 mg/kg  
oral, NOEL, Rat: 400 mg/kg  
oral, NOEL, Mouse: 200  
inhalative (vapours), NOAEC, Rat: 1072 mg/m<sup>3</sup>  
Method: OECD 412

#### Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye damage.

ethylbenzene

# Safety Data Sheet

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

Article No.: 2568  
Print date: 10.02.2021  
Version: 1

Hardener Quick A-2605  
Revision date: 05.01.2021  
Issue date: 05.01.2021

EN  
Page 8 / 13

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

benzyl alcohol

Skin, Rabbit (4 h)  
Method: OECD 404  
non-irritant.; not corrosive  
eyes, Rabbit  
Method: OECD 405  
Causes serious eye irritation.; not corrosive

## Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

benzyl alcohol

Skin, Guinea pig: ; Evaluation not sensitising.  
Method: OECD 406

## 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  
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

benzyl alcohol

Germ cell mutagenicity; Evaluation negative  
Method: OECD 471 (Ames test)  
OECD 474  
Carcinogenicity  
No data available  
Reproductive toxicity  
No data available

## STOT-single exposure; STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.



# Safety Data Sheet

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

Article No.: 2568  
Print date: 10.02.2021  
Version: 1

Hardener Quick A-2605  
Revision date: 05.01.2021  
Issue date: 05.01.2021

EN  
Page 9 / 13

## 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

## benzyl alcohol

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

Repeated dose toxicity (subacute, subchronic, chronic)

No data available

## Aspiration hazard

### butan-1-ol

Aspiration hazard

### benzyl alcohol

Aspiration hazard

May be harmful if swallowed.; May be harmful if inhaled.; non-irritant.

## Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

## Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

## SECTION 12: Ecological information

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

Do not allow to enter into surface water or drains.

### 12.1. Toxicity

#### Xylene

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

Method: OECD 203

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

Method: OECD 201

Algae toxicity, LC50, Pseudokirchneriella subcapitata: 4,6 mg/L (72 h)

Method: OECD 201

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

Method: OECD 203

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

Method: OECD 202

Algae toxicity, LC50, Selenastrum capricornutum: 2,2 mg/L (73 h)

Method: OECD 201

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

Method: OECD 301 F

#### ethylbenzene

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

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

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

# Safety Data Sheet

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

Article No.: 2568  
Print date: 10.02.2021  
Version: 1

Hardener Quick A-2605  
Revision date: 05.01.2021  
Issue date: 05.01.2021

EN  
Page 10 / 13

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

#### butan-1-ol

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

#### benzyl alcohol

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2,18 mg/L (96 h)  
Daphnia toxicity, EC50, Daphnia pulex (water flea): 2,94 mg/L (48 h)  
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 0,11 mg/L (72 h)  
Algae, EC50, Algae: 2,6 mg/L (72 h)  
Fish toxicity, LC50, Lepomis macrochirus (Bluegill): 10 ppm (96 h)  
Algae toxicity, NOEC, Skeletonema costatum: 0,027 mg/L (72 h)

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

#### ethylbenzene

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

#### butan-1-ol

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

## 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

#### benzyl alcohol

Biodegradation: 92 - 96 percent (14 d)  
Method: OECD 301C

# Safety Data Sheet

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

Article No.: 2568 Hardener Quick A-2605  
Print date: 10.02.2021 Revision date: 05.01.2021  
Version: 1 Issue date: 05.01.2021

EN  
Page 11 / 13

Readily biodegradable (according to OECD criteria)

## 12.3. Bioaccumulative potential

Xylene

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

ethylbenzene

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

butan-1-ol

Partition coefficient: n-octanol/water:

Bioaccumulation is not to be expected.

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

benzyl alcohol

Distribution coefficient n-octanol/water (log KOW): 1,05

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

## Bioconcentration factor (BCF)

benzyl alcohol

Bioconcentration factor (BCF), fish: 1,37

## 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.

benzyl alcohol

soil:

No further relevant information 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. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

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

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

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

#### Appropriate disposal / Package Recommendation

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

## SECTION 14: Transport information

### 14.1. UN number

UN 1263

### 14.2. UN proper shipping name

Land transport (ADR/RID):

Paint

Sea transport (IMDG):

PAINT

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

Paint

### 14.3. Transport hazard class(es)

Land transport (ADR/RID):

KEINE GÜTER DER KLASSE 3

bei Gebinden > 450 l Klasse 3

Sea transport (IMDG)

3

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

Article No.: 2568 Hardener Quick A-2605  
 Print date: 10.02.2021 Revision date: 05.01.2021 EN  
 Version: 1 Issue date: 05.01.2021 Page 12 / 13

- for packages < 30 litres: Transport in accordance with 2.3.2.5 of the IMDG Code.  
 Air transport (ICAO-TI / IATA-DGR) 3
- 14.4. **Packing group**  
 III
- 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. **Transport in bulk according to Annex II of Marpol and the IBC Code**  
 not applicable

**SECTION 15: Regulatory information**

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

**EU legislation**

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

VOC-value (in g/L): 449

**National regulations**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
 Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.2. **Chemical Safety Assessment**

**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
202-859-9 100-51-6	benzyl alcohol	01-2119492630-38
200-751-6 71-36-3	butan-1-ol	01-2119484630-38
202-849-4 100-41-4	ethylbenzene	01-2119489370-35
605-296-0 162627-17-0	Fatty acids, C18-unsaturated, dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine	01-2119970640-38

**SECTION 16: Other information**

**Full text of classification in section 3**

Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Resp. Sens. 1 / H334	Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs (or state all

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Article No.: 2568  
Print date: 10.02.2021  
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Hardener Quick A-2605  
Revision date: 05.01.2021  
Issue date: 05.01.2021

EN  
Page 13 / 13

Asp. Tox. 1 / H304	Aspiration hazard
Flam. Liq. 3 / H226	Flammable liquids
Acute Tox. 4 / H302	Acute toxicity (oral)
Eye Dam. 1 / H318	Serious eye damage/eye irritation
STOT SE 3 / H336	STOT-single exposure
Flam. Liq. 2 / H225	Flammable liquids

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).  
May be fatal if swallowed and enters airways.  
Flammable liquid and vapour.  
Harmful if swallowed.  
Causes serious eye damage.  
May cause drowsiness or dizziness.  
Highly flammable liquid and vapour.

## Classification procedure

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

Flam. Liq. 3	Flammable liquids	On basis of test data.
Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Eye Dam. 1	Serious eye damage/eye irritation	Calculation method.
Resp. Sens. 1	Respiratory or skin sensitisation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
STOT RE 2	STOT-repeated exposure	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.