

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARALDITE® PZ 985 E

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 27.04.2023  |
| 2.1     | 14.12.2023     | 400001008617 | Date of first issue: 12.10.2018 |

Print Date 30.09.2024

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

#### 1.1 Product identifier

Trade name : ARALDITE® PZ 985 E

Unique Formula Identifier (UFI) : ME3G-M0E0-P00E-W27A

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

Use of the Substance/Mixture : Epoxy constituents

Recommended restrictions on use : For industrial use only.

#### 1.3 Details of the supplier of the safety data sheet

Company : Huntsman Advanced Materials (Europe) BV

Address : Everslaan 45  
3078 Everberg  
Belgium

Telephone : +41 61 299 20 41

Telefax : +41 61 299 20 40

E-mail address of person responsible for the SDS : Global\_Product\_EHS\_AdMat@huntsman.com

#### 1.4 Emergency telephone number

Emergency telephone number : Centres Antipoison et de Toxicovigilance:

ANGERS: 02 41 48 21 21

BORDEAUX: 05 56 96 40 80

LILLE: 0 825 812 822

LYON: 04 72 11 69 11

MARSEILLE 04 91 75 25 25

NANCY: 03 83 32 36 36

PARIS: 01 40 05 48 48

RENNES: 02 99 59 22 22

STRASBOURG: 03 88 37 37 37

TOULOUSE: 05 61 77 74 47

EUROPE: +32 35 75 1234

France ORFILA: +33(0)145425959

ASIA: +65 6336-6011

China: +86 20 39377888  
+86 532 83889090

India: + 91 22 42 87 5333

Australia: 1800 786 152

New Zealand: 0800 767 437

USA: +1 800-424-9300

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

|                                                |                                                          |
|------------------------------------------------|----------------------------------------------------------|
| Flammable liquids, Category 3                  | H226: Flammable liquid and vapour.                       |
| Skin irritation, Category 2                    | H315: Causes skin irritation.                            |
| Eye irritation, Category 2                     | H319: Causes serious eye irritation.                     |
| Carcinogenicity, Category 2                    | H351: Suspected of causing cancer if inhaled.            |
| Long-term (chronic) aquatic hazard, Category 3 | H412: Harmful to aquatic life with long lasting effects. |

### 2.2 Label elements

#### Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

|                     |      |                                                    |
|---------------------|------|----------------------------------------------------|
| Hazard statements : | H226 | Flammable liquid and vapour.                       |
|                     | H315 | Causes skin irritation.                            |
|                     | H319 | Causes serious eye irritation.                     |
|                     | H351 | Suspected of causing cancer if inhaled.            |
|                     | H412 | Harmful to aquatic life with long lasting effects. |

|                            |                                                                                                   |                                                                                                |
|----------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Precautionary statements : | <b>Prevention:</b>                                                                                |                                                                                                |
|                            | P201                                                                                              | Obtain special instructions before use.                                                        |
|                            | P210                                                                                              | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
|                            | P264                                                                                              | Wash skin thoroughly after handling.                                                           |
|                            | P273                                                                                              | Avoid release to the environment.                                                              |
| P280                       | Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. |                                                                                                |

#### Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

#### Hazardous components which must be listed on the label:

Hydrocarbons, C10, aromatics >1% naphthalene

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Hazardous components

| Chemical name                                   | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number      | Classification                                                                                                                                                                                                      | Concentration<br>(% w/w) |
|-------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Hydrocarbons, C10, aromatics<br>>1% naphthalene | Not Assigned<br>-<br>01-2119463588-24                      | Carc. 2; H351<br>STOT SE 3; H336<br>(Central nervous system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411                                                                                                     | >= 10 -<br>< 20          |
| 2-butoxyethanol                                 | 111-76-2<br>203-905-0<br>603-014-00-0<br>01-2119475108-36  | Acute Tox. 4; H302<br>Acute Tox. 3; H331<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br><br>Acute toxicity estimate<br><br>Acute oral toxicity:<br>1 200 mg/kg<br>Acute inhalation toxicity<br>(vapour):<br>3 mg/l | >= 10 -<br>< 20          |
| xylene                                          | 1330-20-7<br>215-535-7<br>601-022-00-9<br>01-2119488216-32 | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>(Respiratory system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3;<br>H412           | >= 2,5 -<br>< 10         |
| 4-methylpentan-2-ol                             | 108-11-2<br>203-551-7<br>603-008-00-8<br>01-2119473979-13  | Flam. Liq. 3; H226<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>(Respiratory system)<br><br>specific concentration<br>limit                                                                                          | >= 1 - <<br>10           |

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|  |  |                           |  |
|--|--|---------------------------|--|
|  |  | STOT SE 3; H335<br>≥ 25 % |  |
|--|--|---------------------------|--|

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- |                            |                                                                                                                                                                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice             | : Move out of dangerous area.<br>Consult a physician.<br>Show this safety data sheet to the doctor in attendance.<br>Treat symptomatically.<br>Get medical attention if symptoms occur.                                                                                                             |
| Protection of first-aiders | : First Aid responders should pay attention to self-protection and use the recommended protective clothing<br>If potential for exposure exists refer to Section 8 for specific personal protective equipment.<br>No action shall be taken involving any personal risk or without suitable training. |
| If inhaled                 | : Consult a physician after significant exposure.<br>If inhaled, remove to fresh air.<br>Get medical attention if symptoms occur.                                                                                                                                                                   |
| In case of skin contact    | : If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.                                                                                                                                                                            |
| In case of eye contact     | : Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.                                                                                                                                |
| If swallowed               | : Keep respiratory tract clear.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital.                                                                                                                         |

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

- |       |                                                                                                        |
|-------|--------------------------------------------------------------------------------------------------------|
| Risks | : Causes skin irritation.<br>Causes serious eye irritation.<br>Suspected of causing cancer if inhaled. |
|-------|--------------------------------------------------------------------------------------------------------|

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

- |           |                          |
|-----------|--------------------------|
| Treatment | : Treat symptomatically. |
|-----------|--------------------------|

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : Exercise caution when using a high volume water jet as it may scatter and spread fire

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

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Refer to protective measures listed in sections 7 and 8.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform

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respective authorities.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information., For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Keep in properly labelled containers.

Advice on common storage : For incompatible materials please refer to Section 10 of this SDS.

Recommended storage temperature : 2 - 40 °C

Further information on storage stability : Stable under normal conditions.

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### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components          | CAS-No.                                                                       | Value type (Form of exposure) | Control parameters               | Basis      |
|---------------------|-------------------------------------------------------------------------------|-------------------------------|----------------------------------|------------|
| 2-butoxyethanol     | 111-76-2                                                                      | TWA                           | 20 ppm<br>98 mg/m <sup>3</sup>   | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative |                               |                                  |            |
|                     |                                                                               | STEL                          | 50 ppm<br>246 mg/m <sup>3</sup>  | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative |                               |                                  |            |
|                     |                                                                               | VLCT (VLE)                    | 50 ppm<br>246 mg/m <sup>3</sup>  | FR VLE     |
| Further information | Risk of penetration through skin, Regulatory binding exposure limits          |                               |                                  |            |
|                     |                                                                               | VME                           | 10 ppm<br>49 mg/m <sup>3</sup>   | FR VLE     |
| Further information | Risk of penetration through skin, Regulatory binding exposure limits          |                               |                                  |            |
| xylene              | 1330-20-7                                                                     | TWA                           | 50 ppm<br>221 mg/m <sup>3</sup>  | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative |                               |                                  |            |
|                     |                                                                               | STEL                          | 100 ppm<br>442 mg/m <sup>3</sup> | 2000/39/EC |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative |                               |                                  |            |
|                     |                                                                               | VME                           | 50 ppm<br>221 mg/m <sup>3</sup>  | FR VLE     |
| Further information | Risk of penetration through skin, Regulatory binding exposure limits          |                               |                                  |            |
|                     |                                                                               | VLCT (VLE)                    | 100 ppm<br>442 mg/m <sup>3</sup> | FR VLE     |
| Further information | Risk of penetration through skin, Regulatory binding exposure limits          |                               |                                  |            |
| 4-methylpentan-2-ol | 108-11-2                                                                      | VME                           | 25 ppm<br>100 mg/m <sup>3</sup>  | FR VLE     |
| Further information | Risk of penetration through skin, Indicative exposure limits                  |                               |                                  |            |

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects   | Value                 |
|----------------|---------|-----------------|----------------------------|-----------------------|
| xylene         | Workers | Inhalation      | Long-term systemic effects | 221 mg/m <sup>3</sup> |
|                | Workers | Inhalation      | Acute systemic effects     | 442 mg/m <sup>3</sup> |
|                | Workers | Inhalation      | Long-term local effects    | 221 mg/m <sup>3</sup> |
|                | Workers | Inhalation      | Acute local effects        | 442 mg/m <sup>3</sup> |
|                | Workers | Dermal          | Long-term systemic effects | 212 mg/kg bw/day      |

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|                 |           |            |                            |                   |
|-----------------|-----------|------------|----------------------------|-------------------|
|                 | Consumers | Inhalation | Long-term systemic effects | 65,3 mg/m3        |
|                 | Consumers | Inhalation | Acute systemic effects     | 260 mg/m3         |
|                 | Consumers | Inhalation | Long-term local effects    | 65,3 mg/m3        |
|                 | Consumers | Inhalation | Acute local effects        | 260 mg/m3         |
|                 | Consumers | Dermal     | Long-term systemic effects | 125 mg/kg bw/day  |
|                 | Consumers | Oral       | Long-term systemic effects | 12,5 mg/kg bw/day |
| 2-butoxyethanol | Workers   | Inhalation | Long-term systemic effects | 98 mg/m3          |
|                 | Workers   | Inhalation | Acute systemic effects     | 1091 mg/m3        |
|                 | Workers   | Inhalation | Long-term local effects    | 246 mg/m3         |
|                 | Consumers | Inhalation | Long-term systemic effects | 59 mg/m3          |
|                 | Consumers | Inhalation | Acute systemic effects     | 426 mg/m3         |
|                 | Consumers | Inhalation | Long-term local effects    | 147 mg/m3         |
|                 | Consumers | Oral       | Long-term systemic effects | 6,3 mg/kg bw/day  |
|                 | Consumers | Oral       | Acute systemic effects     | 26,7 mg/kg bw/day |

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

| Substance name  | Environmental Compartment  | Value                         |
|-----------------|----------------------------|-------------------------------|
| xylene          | Fresh water                | 0,044 mg/l                    |
|                 | Remarks:Assessment Factors |                               |
|                 | Freshwater - intermittent  | 0,01 mg/l                     |
|                 | Remarks:Assessment Factors |                               |
|                 | Marine water               | 0,004 mg/l                    |
|                 | Remarks:Assessment Factors |                               |
|                 | Sewage treatment plant     | 1,6 mg/l                      |
|                 | Remarks:Assessment Factors |                               |
|                 | Fresh water sediment       | 2,52 mg/kg dry weight (d.w.)  |
|                 | Remarks:Equilibrium method |                               |
|                 | Marine sediment            | 0,252 mg/kg dry weight (d.w.) |
|                 | Remarks:Equilibrium method |                               |
|                 | Soil                       | 0,852 mg/kg                   |
|                 | Remarks:Assessment Factors |                               |
| 2-butoxyethanol | Fresh water                | 8,8 mg/l                      |
|                 | Remarks:Assessment Factors |                               |
|                 | Marine water               | 0,88 mg/l                     |
|                 | Remarks:Assessment Factors |                               |
|                 | Sewage treatment plant     | 463 mg/l                      |
|                 | Remarks:Assessment Factors |                               |
|                 | Fresh water sediment       | 34,6 mg/kg dry weight (d.w.)  |

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|  |                            |                              |
|--|----------------------------|------------------------------|
|  | Remarks:Equilibrium method |                              |
|  | Marine sediment            | 3,46 mg/kg dry weight (d.w.) |
|  | Remarks:Equilibrium method |                              |
|  | Soil                       | 2,33 mg/kg dry weight (d.w.) |
|  | Remarks:Equilibrium method |                              |
|  | Oral                       | 0,00002 mg/kg                |
|  | Remarks:Assessment Factors |                              |

### 8.2 Exposure controls

#### Personal protective equipment

- Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Remarks
- Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines  
Equipment should conform to EN 14387
- Filter type : Combined particulates, inorganic and acidic gas/vapour, ammonia/amines and organic vapour type (ABEK-P)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Colour : light yellow
- Odour : slight
- Odour Threshold : No data is available on the product itself.
- Melting point/freezing point : No data is available on the product itself.

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|                                                  |                                               |
|--------------------------------------------------|-----------------------------------------------|
| Boiling point                                    | : 187 °C                                      |
| Flammability (solid, gas)                        | : No data is available on the product itself. |
| Lower explosion limit / Lower flammability limit | : No data is available on the product itself. |
| Upper explosion limit / Upper flammability limit | : No data is available on the product itself. |
| Flash point                                      | : 50 °C<br>Method: Seta closed cup            |
| Auto-ignition temperature                        | : No data is available on the product itself. |
| Decomposition temperature                        | : > 200 °C                                    |
| pH                                               | : ca. 8 (20 °C)<br>Concentration: 500 g/l     |
| Viscosity                                        |                                               |
| Viscosity, dynamic                               | : 2 400 - 2 800 mPa.s (25 °C)                 |
| Solubility(ies)                                  |                                               |
| Water solubility                                 | : practically insoluble (20 °C)               |
| Solubility in other solvents                     | : No data is available on the product itself. |
| Partition coefficient: n-octanol/water           | : No data is available on the product itself. |
| Vapour pressure                                  | : < 9 hPa (20 °C)                             |
| Density                                          | : 1 - 1,1 g/cm <sup>3</sup> (25 °C)           |
| Relative density                                 | : No data is available on the product itself. |
| Relative vapour density                          | : No data is available on the product itself. |
| Particle characteristics                         | : No data is available on the product itself. |

### 9.2 Other information

No data is available on the product itself.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

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### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Strong acids  
Strong bases  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified due to lack of data.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2 000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2 000 mg/kg  
Method: Calculation method

#### Components:

##### Hydrocarbons, C10, aromatics >1% naphthalene:

Acute oral toxicity : LD50 (Rat, male and female): 6 318 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 4 778 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

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Assessment: The substance or mixture has no acute dermal toxicity

### 2-butoxyethanol:

Acute oral toxicity : LD50 (Guinea pig): 1 200 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute toxicity estimate: 1 200 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute inhalation toxicity : Assessment: The component/mixture is toxic after short term inhalation.

Acute toxicity estimate: 3 mg/l  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Guinea pig, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### xylene:

Acute oral toxicity : LD50 (Mouse, male and female): 3 523 - 4 000 mg/kg  
Method: Directive 67/548/EEC, Annex V, B.1.  
GLP: no  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): 27,1 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Other guidelines  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male): 12 126 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### 4-methylpentan-2-ol:

Acute oral toxicity : LD50 (Rat): 2 590 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 16 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: The component/mixture is low toxic after short term inhalation.

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Acute dermal toxicity : LD50 (Rabbit): 2 870 mg/kg  
Method: OECD Test Guideline 402

### Skin corrosion/irritation

Causes skin irritation.

#### Components:

##### Hydrocarbons, C10, aromatics >1% naphthalene:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

##### 2-butoxyethanol:

Species : Rabbit  
Assessment : Irritating to skin.  
Method : Regulation (EC) No. 440/2008, Annex, B.4  
Result : Skin irritation  
GLP : no

##### xylene:

Species : Rabbit  
Exposure time : 4 h  
Assessment : Irritating to skin.  
Method : Regulation (EC) No. 440/2008, Annex, B.4  
Result : Skin irritation

##### 4-methylpentan-2-ol:

Species : Rabbit  
Assessment : Mild skin irritant  
Method : OECD Test Guideline 404  
Result : Mild skin irritation

### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Components:

##### Hydrocarbons, C10, aromatics >1% naphthalene:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

##### 2-butoxyethanol:

Species : Rabbit  
Assessment : Irritating to eyes.  
Method : OECD Test Guideline 405  
Result : Irritation to eyes, reversing within 21 days

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GLP : yes

### **xylene:**

Species : Rabbit  
Result : Eye irritation

### **4-methylpentan-2-ol:**

Species : Rabbit  
Assessment : Irritant  
Method : OECD Test Guideline 405  
Result : Irritating to eyes.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified due to lack of data.

#### **Respiratory sensitisation**

Not classified due to lack of data.

### **Components:**

#### **Hydrocarbons, C10, aromatics >1% naphthalene:**

Test Type : Maximisation Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.

#### **2-butoxyethanol:**

Test Type : Maximisation Test  
Exposure routes : Skin  
Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.  
GLP : yes

### **xylene:**

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Skin  
Species : Mouse  
Assessment : Did not cause sensitisation on laboratory animals.  
Method : OECD Test Guideline 429  
Result : Did not cause sensitisation on laboratory animals.

#### **4-methylpentan-2-ol:**

Exposure routes : Skin  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

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### Germ cell mutagenicity

Not classified due to lack of data.

### Components:

#### Hydrocarbons, C10, aromatics >1% naphthalene:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

#### 2-butoxyethanol:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Test Type: gene mutation test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male)  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

Test Type: Micronucleus test  
Species: Rat (male)  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

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### **xylene:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: Regulation (EC) No. 440/2008, Annex, B.10  
Result: negative

Test Type: sister chromatid exchange assay  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: Regulation (EC) No. 440/2008, Annex, B.19  
Result: negative

Test Type: gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: Regulation (EC) No. 440/2008, Annex, B.17  
Result: negative

Test Type: reverse mutation assay  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro  
Species: Mouse (male and female)  
Application Route: Subcutaneous  
Dose: 1 ml/kg  
Method: OECD Test Guideline 478  
Result: negative

Test Type: Chromosome aberration test in vitro  
Species: Rat (male and female)  
Application Route: Intraperitoneal injection  
Dose: 1 ml/kg  
Method: OECD Test Guideline 478  
Result: negative

Test Type: Micronucleus test  
Species: Mouse (male)  
Application Route: Intraperitoneal injection  
Dose: 106, 220, 320, 440 mg/kg  
Method: OECD Test Guideline 474  
Result: negative

### **4-methylpentan-2-ol:**

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476

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Result: negative

Metabolic activation: negative  
Method: OECD Test Guideline 473  
Result: negative

### Carcinogenicity

Suspected of causing cancer if inhaled.

#### Components:

##### **Hydrocarbons, C10, aromatics >1% naphthalene:**

|                        |                       |
|------------------------|-----------------------|
| Species                | : Rat, male           |
| Application Route      | : inhalation (vapour) |
| Exposure time          | : 13 weeks            |
| Activity duration      | : 6 h                 |
| Dose                   | : 17, 38, and 66 ppm  |
| Frequency of Treatment | : 5 days/week         |
| NOAEL                  | : > 0,38 mg/l         |

|                              |                                                                           |
|------------------------------|---------------------------------------------------------------------------|
| Carcinogenicity - Assessment | : Limited evidence of carcinogenicity in inhalation studies with animals. |
|------------------------------|---------------------------------------------------------------------------|

##### **2-butoxyethanol:**

|                        |                           |
|------------------------|---------------------------|
| Species                | : Rat, male and female    |
| Application Route      | : inhalation (vapour)     |
| Exposure time          | : 2 years                 |
| Activity duration      | : 6 h                     |
| Frequency of Treatment | : 5 days/week             |
| NOAEL                  | : 125 ppm                 |
| Method                 | : OECD Test Guideline 451 |
| Target Organs          | : Liver, forestomach      |

##### **xylene:**

|                        |                                             |
|------------------------|---------------------------------------------|
| Species                | : Mouse, male and female                    |
| Application Route      | : Oral                                      |
| Exposure time          | : 103 weeks                                 |
| Dose                   | : 0, 500 or 1000 mg/kg                      |
| Frequency of Treatment | : 5 days/week                               |
| Method                 | : Regulation (EC) No. 440/2008, Annex, B.32 |
| Result                 | : negative                                  |

|                        |                                             |
|------------------------|---------------------------------------------|
| Species                | : Rat, male and female                      |
| Application Route      | : Oral                                      |
| Exposure time          | : 103 weeks                                 |
| Dose                   | : 0, 250 or 500 mg/kg                       |
| Frequency of Treatment | : 5 days/week                               |
| Method                 | : Regulation (EC) No. 440/2008, Annex, B.32 |
| Result                 | : negative                                  |

### Reproductive toxicity

Not classified due to lack of data.

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### Components:

#### **Hydrocarbons, C10, aromatics >1% naphthalene:**

|                               |                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Effects on fertility          | : Test Type: Three-generation study<br>Species: Rat, male and female<br>Application Route: inhalation (vapour)<br>Fertility: NOAEC Parent: 1 500 ppm<br>Method: OECD Test Guideline 416<br>Result: negative<br>GLP: yes                                                                                                                                                     |
| Effects on foetal development | : Test Type: Pre-natal<br>Species: Rat, male and female<br>Application Route: Oral<br>Dose: 0, 75, 150, and 450 mg/kg<br>General Toxicity Maternal: NOAEL: 150 mg/kg body weight<br>Developmental Toxicity: NOAEL: > 450 mg/kg body weight<br>Method: OECD Test Guideline 414<br>Result: No effects on fertility and early embryonic development were detected.<br>GLP: yes |

#### **2-butoxyethanol:**

|                               |                                                                                                                                                                                                                                                                                                        |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Effects on fertility          | : Test Type: Two-generation study<br>Species: Mouse, male and female<br>Application Route: Oral<br>Dose: 720/1340/2050 mg/kg bw<br>General Toxicity - Parent: NOAEL: 720 mg/kg body weight<br>General Toxicity F1: NOAEL: 720 mg/kg body weight<br>General Toxicity F2: NOAEL: 720 mg/kg body weight   |
| Effects on foetal development | : Test Type: Pre-natal<br>Species: Rat, female<br>Application Route: Oral<br>Duration of Single Treatment: 12 d<br>General Toxicity Maternal: NOAEL: 30 mg/kg body weight<br>Developmental Toxicity: NOAEC: 200 mg/kg body weight<br>Method: OECD Test Guideline 414<br>Result: No teratogenic effects |
|                               | Test Type: Pre-natal<br>Species: Rabbit, female<br>Application Route: inhalation (vapour)<br>Dose: 121/242/483/966 mg/m <sup>3</sup><br>Duration of Single Treatment: 22 d<br>General Toxicity Maternal: NOAEL: 50 ppm<br>Method: OECD Test Guideline 414                                              |
|                               | Test Type: Pre-natal<br>Species: Rat, female<br>Application Route: inhalation (vapour)<br>Dose: 121/242/483/966 mg/m <sup>3</sup><br>Duration of Single Treatment: 10 d<br>General Toxicity Maternal: NOAEL: 242 mg/m <sup>3</sup><br>Developmental Toxicity: NOAEC: 483 mg/m <sup>3</sup>             |

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Method: OECD Test Guideline 414

### **xylene:**

Effects on fertility : Species: Rat, male and female  
Application Route: inhalation (vapour)  
Dose: 0, 60, 250 or 500 ppm  
Duration of Single Treatment: 6 h  
Frequency of Treatment: 7 days/week  
General Toxicity - Parent: NOAEC: 500 ppm  
General Toxicity F1: NOAEC: 500 ppm  
Result: No effects on fertility and early embryonic development were detected.

### **STOT - single exposure**

Not classified due to lack of data.

### **Components:**

#### **Hydrocarbons, C10, aromatics >1% naphthalene:**

Exposure routes : inhalation (vapour)  
Target Organs : Central nervous system  
Assessment : May cause drowsiness or dizziness.

### **xylene:**

Exposure routes : Inhalation  
Target Organs : Respiratory Tract  
Assessment : May cause respiratory irritation., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

### **4-methylpentan-2-ol:**

Assessment : May cause respiratory irritation.

### **STOT - repeated exposure**

Not classified due to lack of data.

### **Components:**

#### **xylene:**

Exposure routes : Ingestion, Inhalation  
Target Organs : Auditory system  
Assessment : May cause damage to organs through prolonged or repeated exposure., The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### **Repeated dose toxicity**

### **Components:**

#### **Hydrocarbons, C10, aromatics >1% naphthalene:**

Species : Rat, male and female  
NOAEL : 300 mg/kg  
Application Route : Oral

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Method : OECD Test Guideline 408  
GLP : yes

Species : Rat, male  
NOAEL : 1 800 mg/kg  
Application Route : inhalation (vapour)  
Method : OECD Test Guideline 452  
GLP : no

### 2-butoxyethanol:

Species : Rat, male and female  
NOEC : < 31 ppm  
Application Route : inhalation (vapour)  
Test atmosphere : vapour  
Exposure time : 2 years 6 h  
Number of exposures : 5 days/week  
Dose : 31/62.5 and 125 ppm  
Method : OECD Test Guideline 453  
GLP : yes  
Target Organs : Liver

Species : Rabbit, male and female  
NOAEL : > 150 mg/kg/d  
Application Route : Skin contact  
Exposure time : 13 weeks  
Number of exposures : 5 days/week  
Dose : 10/50/150 mg/kg bw/day  
Method : OECD Test Guideline 411  
GLP : yes

Species : Rat, male and female  
NOAEL : < 69 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Dose : 750/1500/3000/4500/6000 ppm  
Method : OECD Test Guideline 408  
GLP : yes

Species : Mouse, male and female  
NOEC : < 62,5 ppm  
Application Route : inhalation (vapour)  
Test atmosphere : vapour  
Exposure time : 2 years 6 h  
Number of exposures : 5 days/week  
Dose : 31/62.5 and 125 ppm  
Method : OECD Test Guideline 453  
GLP : yes  
Target Organs : Blood

### xylene:

Species : Rat, male  
NOEC : 7817 mg/m3  
Application Route : Inhalation  
Test atmosphere : vapour

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Exposure time : 13 weeks 6 h  
Number of exposures : 5 days/week  
Dose : 0, 1954, 3908, 7817 mg/m3  
Method : Chronic toxicity  
Target Organs : hearing organs

Species : Rat, male and female  
NOAEL : 250 mg/kg  
Application Route : Oral  
Exposure time : 103 weeks  
Number of exposures : 5 days/week  
Dose : 0/250/500 mg/kg bw/day

Species : Rat, male and female  
NOAEL : 150 mg/kg  
LOAEL : 150 mg/kg  
Application Route : Oral  
Exposure time : 90 days 90 Days  
Number of exposures : 7 days/week  
Dose : 0, 150, 750 or 1500 mg/kg/day  
Method : OECD Test Guideline 408  
Target Organs : Kidney, Liver

### 4-methylpentan-2-ol:

Species : Rat, male and female  
NOEC : 3698 mg/m3  
Test atmosphere : vapour  
Exposure time : 1 008 h  
Number of exposures : 6 h  
Method : OECD Test Guideline 412

### Aspiration toxicity

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

### Product:

No aspiration toxicity classification

### Components:

#### Hydrocarbons, C10, aromatics >1% naphthalene:

May be fatal if swallowed and enters airways.

#### xylene:

May be fatal if swallowed and enters airways.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

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(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

### Experience with human exposure

No data available

### Toxicology, Metabolism, Distribution

No data available

### Neurological effects

No data available

### Further information

#### Product:

Remarks : Solvents may degrease the skin.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### Hydrocarbons, C10, aromatics >1% naphthalene:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): 3 - 10 mg/l  
aquatic invertebrates  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic : EL50 (Pseudokirchneriella subcapitata (algae)): 11 mg/l  
plants  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

##### 2-butoxyethanol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1 474 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 203  
GLP: no

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1 550 mg/l  
aquatic invertebrates  
End point: Immobilization

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Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 202  
GLP: no

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): > 1 000 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

EC50 (*Pseudokirchneriella subcapitata* (green algae)): 1 840 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: no

NOEC (*Pseudokirchneriella subcapitata* (green algae)): 286 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: no

Toxicity to fish (Chronic toxicity) : NOEC: >= 100 mg/l  
Exposure time: 28 d  
Species: *Oryzias latipes* (Orange-red killifish)  
Test Type: flow-through test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 100 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Test Type: semi-static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 211  
GLP: no

### xylene:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 2,6 mg/l  
End point: mortality  
Exposure time: 96 h  
Test substance: Fresh water

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Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : NOEC (Ceriodaphnia dubia (Water flea)): 1 mg/l  
End point: Immobilization  
Exposure time: 24 h  
Test Type: static test  
Test substance: Fresh water  
Method: Other guidelines  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 4,7 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,44 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : NOEC (activated sludge): 16 mg/l  
Exposure time: 28 d  
Test Type: static test  
Analytical monitoring: no  
Method: Other guidelines  
GLP: yes

IC50 (Bacteria): 96 mg/l  
Exposure time: 24 h

Toxicity to fish (Chronic toxicity) : NOEC: 0,714 mg/l  
Exposure time: 56 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: flow-through test  
Test substance: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,96 mg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia (Water flea)  
Analytical monitoring: yes  
Test substance: Fresh water  
GLP: no  
Remarks: Information given is based on data obtained from similar substances.

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| 2.1     | 14.12.2023     | 400001008617 | Date of first issue: 12.10.2018 |

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### Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

#### 4-methylpentan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 92,4 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Test substance: Fresh water  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 337 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : IC50 (Selenastrum capricornutum (green algae)): 142 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

ErC50 (Pseudokirchneriella subcapitata (algae)): 334 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (algae)): 75,5 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 : > 100 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

## 12.2 Persistence and degradability

### Components:

#### Hydrocarbons, C10, aromatics >1% naphthalene:

Biodegradability : Result: Inherently biodegradable.  
Biodegradation: 58 %  
Exposure time: 28 d

#### 2-butoxyethanol:

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge

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Concentration: 100 mg/l  
Result: Readily biodegradable.  
Biodegradation: 90,4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Test substance: Fresh water  
GLP: no

### **xylene:**

Biodegradability : Test Type: aerobic  
Inoculum: Sewage (STP effluent)  
Result: Readily biodegradable.  
Biodegradation: > 90 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Test substance: Fresh water  
GLP: yes

### **4-methylpentan-2-ol:**

Biodegradability : Inoculum: Sewage (STP effluent)  
Result: Readily biodegradable.  
Biodegradation: 85 %  
Exposure time: 28 d  
Method: Directive 67/548/EEC Annex V, C.4.D.

## 12.3 Bioaccumulative potential

### Components:

#### **2-butoxyethanol:**

Partition coefficient: n-octanol/water : log Pow: 0,81 (25 °C)  
pH: 7  
GLP: no

### **xylene:**

Bioaccumulation : Species: Fish  
Exposure time: 56 d  
Bioconcentration factor (BCF): 25,9  
Test substance: Fresh water  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 3,16 (20 °C)  
pH: 7  
Method: Calculation method

## 12.4 Mobility in soil

### Components:

#### **xylene:**

Distribution among environmental compartments : Medium: Soil  
Koc: ca. 537, log Koc: ca. 2,73  
Method: OECD Test Guideline 121

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### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

### 12.7 Other adverse effects

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of contents and container in accordance with all local, regional, national and international regulations.  
Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14: Transport information

### 14.1 UN number or ID number

|      |           |
|------|-----------|
| ADN  | : UN 1866 |
| ADR  | : UN 1866 |
| RID  | : UN 1866 |
| IMDG | : UN 1866 |
| IATA | : UN 1866 |

### 14.2 UN proper shipping name

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|             |   |                |
|-------------|---|----------------|
| <b>ADN</b>  | : | RESIN SOLUTION |
| <b>ADR</b>  | : | RESIN SOLUTION |
| <b>RID</b>  | : | RESIN SOLUTION |
| <b>IMDG</b> | : | RESIN SOLUTION |
| <b>IATA</b> | : | Resin solution |

### 14.3 Transport hazard class(es)

|             | Class | Subsidiary risks |
|-------------|-------|------------------|
| <b>ADN</b>  | :     | 3                |
| <b>ADR</b>  | :     | 3                |
| <b>RID</b>  | :     | 3                |
| <b>IMDG</b> | :     | 3                |
| <b>IATA</b> | :     | 3                |

### 14.4 Packing group

|                                          |                     |
|------------------------------------------|---------------------|
| <b>ADN</b>                               |                     |
| Packing group                            | : III               |
| Classification Code                      | : F1                |
| Hazard Identification Number             | : 30                |
| Labels                                   | : 3                 |
| <b>ADR</b>                               |                     |
| Packing group                            | : III               |
| Classification Code                      | : F1                |
| Hazard Identification Number             | : 30                |
| Labels                                   | : 3                 |
| Tunnel restriction code                  | : (D/E)             |
| <b>RID</b>                               |                     |
| Packing group                            | : III               |
| Classification Code                      | : F1                |
| Hazard Identification Number             | : 30                |
| Labels                                   | : 3                 |
| <b>IMDG</b>                              |                     |
| Packing group                            | : III               |
| Labels                                   | : 3                 |
| EmS Code                                 | : F-E, <u>S-E</u>   |
| <b>IATA (Cargo)</b>                      |                     |
| Packing instruction (cargo aircraft)     | : 366               |
| Packing instruction (LQ)                 | : Y344              |
| Packing group                            | : III               |
| Labels                                   | : Flammable Liquids |
| <b>IATA (Passenger)</b>                  |                     |
| Packing instruction (passenger aircraft) | : 355               |
| Packing instruction (LQ)                 | : Y344              |
| Packing group                            | : III               |
| Labels                                   | : Flammable Liquids |

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### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : no

#### ADR

Environmentally hazardous : no

#### RID

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern.

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c FLAMMABLE LIQUIDS

34 Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar

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properties as regards flammability  
and environmental hazards as  
the products referred to in points  
(a) to (d)

Occupational Illnesses (R- : 84, 66bis, 66, 51, 4 bis  
461-3, France)

Installations classified for the : 4331  
protection of the environment  
(Environment Code R511-9)

### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### The components of this product are reported in the following inventories:

DSL : This product contains one or several components listed in the  
Canadian NDSL.

AIIC : All components are listed on the inventory, regulatory  
obligations/restrictions apply. Please contact your sales  
representative for more information before import into  
Australia

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

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### Inventories

AICS (Australia), AIC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

### 15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

## SECTION 16: Other information

### Full text of H-Statements

|      |                                                      |
|------|------------------------------------------------------|
| H226 | : Flammable liquid and vapour.                       |
| H302 | : Harmful if swallowed.                              |
| H304 | : May be fatal if swallowed and enters airways.      |
| H312 | : Harmful in contact with skin.                      |
| H315 | : Causes skin irritation.                            |
| H319 | : Causes serious eye irritation.                     |
| H331 | : Toxic if inhaled.                                  |
| H332 | : Harmful if inhaled.                                |
| H335 | : May cause respiratory irritation.                  |
| H336 | : May cause drowsiness or dizziness.                 |
| H351 | : Suspected of causing cancer if inhaled.            |
| H411 | : Toxic to aquatic life with long lasting effects.   |
| H412 | : Harmful to aquatic life with long lasting effects. |

### Full text of other abbreviations

|                     |                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------|
| Acute Tox.          | : Acute toxicity                                                                                                     |
| Aquatic Chronic     | : Long-term (chronic) aquatic hazard                                                                                 |
| Asp. Tox.           | : Aspiration hazard                                                                                                  |
| Carc.               | : Carcinogenicity                                                                                                    |
| Eye Irrit.          | : Eye irritation                                                                                                     |
| Flam. Liq.          | : Flammable liquids                                                                                                  |
| Skin Irrit.         | : Skin irritation                                                                                                    |
| STOT SE             | : Specific target organ toxicity - single exposure                                                                   |
| 2000/39/EC          | : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| FR VLE              | : France. Occupational Exposure Limits                                                                               |
| 2000/39/EC / TWA    | : Limit Value - eight hours                                                                                          |
| 2000/39/EC / STEL   | : Short term exposure limit                                                                                          |
| FR VLE / VME        | : Time Weighted Average                                                                                              |
| FR VLE / VLCT (VLE) | : Short Term Exposure Limit                                                                                          |

### Further information

#### Classification of the mixture:

|                   |      |
|-------------------|------|
| Flam. Liq. 3      | H226 |
| Skin Irrit. 2     | H315 |
| Eye Irrit. 2      | H319 |
| Carc. 2           | H351 |
| Aquatic Chronic 3 | H412 |

#### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |

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