

**Trade name:** Armaflex HT625**Current version :** 8.1.2, issued: 09.01.2025**Replaced version:** 8.1.1, issued: 22.10.2024**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****Armaflex HT625****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Adhesive for processing all flexible Armaflex insulation materials (except Armaflex Ultima)

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**Armacell GmbH  
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**Advice on Safety Data Sheet**

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**1.4 Emergency telephone number**

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 2; H411

Eye Irrit. 2; H319

Flam. Liq. 2; H225

Skin Irrit. 2; H315

STOT SE 3; H336

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS02



GHS07



GHS09

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

ethyl-acetate

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Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane  
butanone  
Hydrocarbons, C6, isoalkanes, <5% n-hexane

**Hazard statement(s)**

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

**Hazard statements (EU)**

EUH208 Contains Colophony. May produce an allergic reaction.

**Precautionary statement(s)**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face 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.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**2.3 Other hazards**

Vapours can form an explosive mixture with air.

PBT assessment  
No data available.

vPvB assessment  
No data available.

## SECTION 3: Composition/information on ingredients

**3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures**

**Hazardous ingredients**

| No | Substance name                                                              | Classification (EC) 1272/2008 (CLP)                                                                          | Additional information                                                                        |     |
|----|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----|
|    | CAS / EC / Index / REACH no                                                 |                                                                                                              | Concentration                                                                                 | %   |
| 1  | <b>ethyl-acetate</b>                                                        |                                                                                                              |                                                                                               |     |
|    | 141-78-6<br>205-500-4<br>607-022-00-5<br>01-2119475103-46                   | EUH066<br>Eye Irrit. 2; H319<br>Flam. Liq. 2; H225<br>STOT SE 3; H336                                        | >= 25.00 - < 50.00                                                                            | wt% |
| 2  | <b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b> |                                                                                                              |                                                                                               |     |
|    | 64742-49-0<br>921-024-6<br>649-328-00-1<br>01-2119475514-35                 | Aquatic Chronic 2; H411<br>Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>STOT SE 3; H336<br>Asp. Tox. 1; H304 | >= 10.00 - < 25.00                                                                            | wt% |
| 3  | <b>butanone</b>                                                             |                                                                                                              |                                                                                               |     |
|    | 78-93-3<br>201-159-0<br>606-002-00-3<br>01-2119457290-43                    | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>EUH066                                        | >= 10.00 - < 25.00                                                                            | wt% |
| 4  | <b>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>                        |                                                                                                              | <b>Contains &lt; 0.005% w/w benzo[a]pyrene (EC No. 200-028-5). pls. refer to footnote (2)</b> |     |
|    | 64742-49-0<br>931-254-9<br>649-328-00-1<br>01-2119484651-34                 | Flam. Liq. 2; H225<br>Asp. Tox. 1; H304<br>Skin Irrit. 2; H315<br>STOT SE 3; H336<br>Aquatic Chronic 2; H411 | >= 5.00 - < 10.00                                                                             | wt% |
| 5  | <b>Colophony</b>                                                            |                                                                                                              |                                                                                               |     |
|    | 8050-09-7<br>232-475-7<br>650-015-00-7<br>-                                 | Skin Sens. 1; H317                                                                                           | < 1.00                                                                                        | wt% |
| 6  | <b>zinc oxide</b>                                                           |                                                                                                              |                                                                                               |     |

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|                                             |                                                  |        |     |
|---------------------------------------------|--------------------------------------------------|--------|-----|
| 1314-13-2<br>215-222-5<br>030-013-00-7<br>- | Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410 | < 1.00 | wt% |
|---------------------------------------------|--------------------------------------------------|--------|-----|

Full text of H- and EUH-phrases, if not already mentioned in section 2.2: see section 16.

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|-------------------------------|------------------|--------------------|
| 2  | P    | -                             | -                | -                  |
| 4  | P    | -                             | -                | -                  |

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

#### After inhalation

When inhaled remove to fresh air and seek medical aid.

#### After skin contact

When in contact with the skin, clean with soap and water.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

#### After ingestion

Do not induce vomiting. Rinse the mouth thoroughly with water. Let plenty of water be drunk in small gulps. Call a doctor immediately.

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

#### Symptoms

Irritating to eyes, respiratory system and skin. Light-headedness; Dizziness; Headache; Nausea

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water spray jet; Carbon dioxide; Dry chemical extinguisher; Foam

#### Unsuitable extinguishing media

High power water jet

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

 In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Hydrogen chloride (HCl)

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Exclude sources of ignition and ventilate the area. Do not inhale vapours.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case of entry into waterways, soil or drains, inform the responsible authorities.

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

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Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not keep the container sealed.

#### 6.4 Reference to other sections

No data available.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

##### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not inhale vapours. Avoid contact with eyes and skin.

##### Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking. Take precautionary measures against static charges. Use explosion-proof equipment/fittings and non-sparking tools. Vapours can form an explosive mixture with air. Vapours are heavier than air and may spread along floors. Heating up leads to increase of pressure - danger of bursting.

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

##### Technical measures and storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized. Protect from heat and direct sunlight.

##### Recommended storage temperature

|       |    |   |    |    |
|-------|----|---|----|----|
| Value | 15 | - | 30 | °C |
|-------|----|---|----|----|

##### Storage stability

|       |      |    |        |
|-------|------|----|--------|
| Value | max. | 18 | months |
|-------|------|----|--------|

##### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Appropriate Material stainless steel

##### Incompatible products

Do not store together with: oxidizing agents

#### 7.3 Specific end use(s)

No data available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational exposure limit values

| No | Substance name                                           | CAS no.  | EC no.                    |
|----|----------------------------------------------------------|----------|---------------------------|
| 1  | ethyl-acetate                                            | 141-78-6 | 205-500-4                 |
|    | 2017/164/EU                                              |          |                           |
|    | Ethyl acetate                                            |          |                           |
|    | WEL short-term (15 min reference period)                 | 1468     | mg/m <sup>3</sup> 400 ppm |
|    | WEL long-term (8-hr TWA reference period)                | 734      | mg/m <sup>3</sup> 200 ppm |
|    | List of approved workplace exposure limits (WELs) / EH40 |          |                           |
|    | Ethyl acetate                                            |          |                           |
|    | WEL short-term (15 min reference period)                 |          | 400 ppm                   |
|    | WEL long-term (8-hr TWA reference period)                |          | 200 ppm                   |
| 2  | butanone                                                 | 78-93-3  | 201-159-0                 |
|    | 2000/39/EC                                               |          |                           |
|    | Butanone                                                 |          |                           |
|    | WEL short-term (15 min reference period)                 | 900      | mg/m <sup>3</sup> 300 ppm |
|    | WEL long-term (8-hr TWA reference period)                | 600      | mg/m <sup>3</sup> 200 ppm |
|    | List of approved workplace exposure limits (WELs) / EH40 |          |                           |
|    | Butan-2-one                                              |          |                           |
|    | WEL short-term (15 min reference period)                 | 899      | mg/m <sup>3</sup> 300 ppm |
|    | WEL long-term (8-hr TWA reference period)                | 600      | mg/m <sup>3</sup> 200 ppm |
|    | Comments                                                 | Sk, BMGV |                           |

##### DNEL, DMEL and PNEC values

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**DNEL values (worker)**

| No | Substance name                                                    | Route of exposure | Exposure time       | Effect   | CAS / EC no             |
|----|-------------------------------------------------------------------|-------------------|---------------------|----------|-------------------------|
|    |                                                                   |                   |                     |          | Value                   |
| 1  | ethyl-acetate                                                     |                   |                     |          | 141-78-6<br>205-500-4   |
|    | dermal                                                            |                   | Long term (chronic) | systemic | 63 mg/kg/day            |
|    | inhalative                                                        |                   | Long term (chronic) | systemic | 734 mg/m³               |
|    | inhalative                                                        |                   | Short term (acute)  | systemic | 1468 mg/m³              |
|    | inhalative                                                        |                   | Long term (chronic) | local    | 734 mg/m³               |
|    | inhalative                                                        |                   | Short term (acute)  | local    | 1468 mg/m³              |
| 2  | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane |                   |                     |          | 64742-49-0<br>921-024-6 |
|    | dermal                                                            |                   | Long term (chronic) | systemic | 773 mg/kg/day           |
|    | inhalative                                                        |                   | Long term (chronic) | systemic | 2035 mg/m³              |
| 3  | butanone                                                          |                   |                     |          | 78-93-3<br>201-159-0    |
|    | dermal                                                            |                   | Long term (chronic) | systemic | 1161 mg/kg/day          |
|    | inhalative                                                        |                   | Long term (chronic) | systemic | 600 mg/m³               |
|    | inhalative                                                        |                   | Short term (acute)  | systemic | 900 mg/m³               |
| 4  | Hydrocarbons, C6, isoalkanes, <5% n-hexane                        |                   |                     |          | 64742-49-0<br>931-254-9 |
|    | dermal                                                            |                   | Long term (chronic) | systemic | 13964 mg/kg/day         |
|    | inhalative                                                        |                   | Long term (chronic) | systemic | 5306 mg/m³              |

**DNEL value (consumer)**

| No | Substance name                                                    | Route of exposure | Exposure time       | Effect   | CAS / EC no             |
|----|-------------------------------------------------------------------|-------------------|---------------------|----------|-------------------------|
|    |                                                                   |                   |                     |          | Value                   |
| 1  | ethyl-acetate                                                     |                   |                     |          | 141-78-6<br>205-500-4   |
|    | oral                                                              |                   | Long term (chronic) | systemic | 4.5 mg/kg/day           |
|    | dermal                                                            |                   | Long term (chronic) | systemic | 37 mg/kg/day            |
|    | inhalative                                                        |                   | Long term (chronic) | systemic | 367 mg/m³               |
|    | inhalative                                                        |                   | Short term (acute)  | systemic | 734 mg/m³               |
|    | inhalative                                                        |                   | Long term (chronic) | local    | 367 mg/m³               |
|    | inhalative                                                        |                   | Short term (acute)  | local    | 734 mg/m³               |
| 2  | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane |                   |                     |          | 64742-49-0<br>921-024-6 |
|    | oral                                                              |                   | Long term (chronic) | systemic | 699 mg/kg/day           |
|    | dermal                                                            |                   | Long term (chronic) | systemic | 699 mg/kg/day           |
|    | inhalative                                                        |                   | Long term (chronic) | systemic | 608 mg/m³               |
| 3  | butanone                                                          |                   |                     |          | 78-93-3<br>201-159-0    |
|    | oral                                                              |                   | Long term (chronic) | systemic | 31 mg/kg/day            |
|    | dermal                                                            |                   | Long term (chronic) | systemic | 412 mg/kg/day           |
|    | inhalative                                                        |                   | Long term (chronic) | systemic | 106 mg/m³               |
|    | inhalative                                                        |                   | Short term (acute)  | systemic | 450 mg/m³               |
| 4  | Hydrocarbons, C6, isoalkanes, <5% n-hexane                        |                   |                     |          | 64742-49-0<br>931-254-9 |
|    | oral                                                              |                   | Long term (chronic) | systemic | 1301 mg/kg/day          |
|    | dermal                                                            |                   | Long term (chronic) | systemic | 1377 mg/kg/day          |
|    | inhalative                                                        |                   | Long term (chronic) | systemic | 1131 mg/m³              |

**PNEC values**

| No | Substance name          | ecological compartment | Type                  | CAS / EC no            |
|----|-------------------------|------------------------|-----------------------|------------------------|
|    |                         |                        |                       | Value                  |
| 1  | ethyl-acetate           |                        |                       | 141-78-6<br>205-500-4  |
|    | water                   |                        | fresh water           | 0.24 mg/L              |
|    | water                   |                        | marine water          | 0.024 mg/L             |
|    | water                   |                        | fresh water sediment  | 1.15 mg/kg dry weight  |
|    | water                   |                        | marine water sediment | 0.115 mg/kg dry weight |
|    | soil                    |                        | -                     | 0.148 mg/kg dry weight |
|    | sewage treatment plant  |                        | -                     | 650 mg/L               |
|    | secondary poisoning     |                        | -                     | 0.2 g/kg               |
|    | with reference to: food |                        |                       |                        |

**8.2 Exposure controls**

Appropriate engineering controls

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Ensure adequate ventilation, local exhaust at the work station if necessary.

**Personal protective equipment**
**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respirator A2/P2

**Eye / face protection**

Safety glasses with side protection shield (EN 166)

**Hand protection**

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

|                      |              |       |     |
|----------------------|--------------|-------|-----|
| Appropriate Material | butyl rubber |       |     |
| Material thickness   | 0.6          | - 0.8 | mm  |
| Breakthrough time    | 60           | - 120 | min |

**Other**

Chemical-resistant work clothes. Fire-resistant antistatic protective clothing.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties**
**9.1 Information on basic physical and chemical properties**

|                                      |               |                                        |
|--------------------------------------|---------------|----------------------------------------|
| <b>State of aggregation</b>          |               |                                        |
| liquid                               |               |                                        |
| <b>Form</b>                          |               |                                        |
| liquid                               |               |                                        |
| <b>Colour</b>                        |               |                                        |
| light yellow; brownish               |               |                                        |
| <b>Odour</b>                         |               |                                        |
| like solvents                        |               |                                        |
| <b>pH value</b>                      |               |                                        |
| reason for missing pH                |               | substance/mixture is non-polar/aprotic |
| <b>Boiling point / boiling range</b> |               |                                        |
| Value                                | 56            | °C                                     |
| Reference substance                  | Naphtha       |                                        |
| <b>Melting point/freezing point</b>  |               |                                        |
| No data available                    |               |                                        |
| <b>Decomposition temperature</b>     |               |                                        |
| No data available                    |               |                                        |
| <b>Flash point</b>                   |               |                                        |
| Value                                | -26           | °C                                     |
| Reference substance                  | Naphtha       |                                        |
| <b>Ignition temperature</b>          |               |                                        |
| No data available                    |               |                                        |
| <b>Flammability</b>                  |               |                                        |
| No data available                    |               |                                        |
| <b>Lower explosion limit</b>         |               |                                        |
| Value                                | 1             | % vol                                  |
| Reference substance                  | Naphtha       |                                        |
| <b>Upper explosion limit</b>         |               |                                        |
| Value                                | 12.8          | % vol                                  |
| Reference substance                  | Ethyl acetate |                                        |
| <b>Vapour pressure</b>               |               |                                        |
| Value                                | 21            | kPa                                    |
| Reference temperature                | 20            | °C                                     |
| Reference substance                  | Naphtha       |                                        |

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| Relative vapour density                           |                                                                   |            |           |
|---------------------------------------------------|-------------------------------------------------------------------|------------|-----------|
| No data available                                 |                                                                   |            |           |
| Relative density                                  |                                                                   |            |           |
| No data available                                 |                                                                   |            |           |
| Density                                           |                                                                   |            |           |
| Value                                             | appr.                                                             | 0.84       | g/cm³     |
| Reference temperature                             |                                                                   | 20         | °C        |
| Solubility in water                               |                                                                   |            |           |
| Comments                                          | immiscible                                                        |            |           |
| Solubility                                        |                                                                   |            |           |
| No data available                                 |                                                                   |            |           |
| Partition coefficient n-octanol/water (log value) |                                                                   |            |           |
| No                                                | Substance name                                                    | CAS no.    | EC no.    |
| 1                                                 | ethyl-acetate                                                     | 141-78-6   | 205-500-4 |
| log Pow                                           |                                                                   |            | 0.68      |
| Reference temperature                             |                                                                   |            | 25 °C     |
| Source                                            | ECHA                                                              |            |           |
| 2                                                 | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 64742-49-0 | 921-024-6 |
| log Pow                                           | 2.96                                                              | - 3.78     |           |
| Reference temperature                             |                                                                   | 20         | °C        |
| with reference to                                 | pH 7                                                              |            |           |
| Method                                            | QSAR                                                              |            |           |
| Source                                            | ECHA                                                              |            |           |
| 3                                                 | butanone                                                          | 78-93-3    | 201-159-0 |
| log Pow                                           |                                                                   |            | 0.3       |
| Reference temperature                             |                                                                   |            | 40 °C     |
| Method                                            | OECD 117                                                          |            |           |
| Source                                            | ECHA                                                              |            |           |
| Kinematic viscosity                               |                                                                   |            |           |
| Value                                             | appr.                                                             | 450        | mPa*s     |
| Reference temperature                             |                                                                   | 20         | °C        |
| Type                                              | dynamic                                                           |            |           |
| Solvent content                                   |                                                                   |            |           |
| Value                                             | appr.                                                             | 82         | %         |
| Solids content                                    |                                                                   |            |           |
| Value                                             | appr.                                                             | 18         | %         |
| Particle characteristics                          |                                                                   |            |           |
| No data available                                 |                                                                   |            |           |

## 9.2 Other information

|                          |
|--------------------------|
| <b>Other information</b> |
| No data available.       |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

Protect from heat and direct sunlight.

### 10.5 Incompatible materials

strong oxidizing agents

### 10.6 Hazardous decomposition products

None, if handled according to intended use.

## SECTION 11: Toxicological information

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

| Acute oral toxicity           |                                                                   |            |                  |
|-------------------------------|-------------------------------------------------------------------|------------|------------------|
| No                            | Substance name                                                    | CAS no.    | EC no.           |
| 1                             | ethyl-acetate                                                     | 141-78-6   | 205-500-4        |
| LD50                          | >                                                                 | 5600       | mg/kg bodyweight |
| Species                       | rat                                                               |            |                  |
| Source                        | ECHA                                                              |            |                  |
| 2                             | butanone                                                          | 78-93-3    | 201-159-0        |
| LD50                          |                                                                   | 2054       | mg/kg bodyweight |
| Species                       | rat                                                               |            |                  |
| Method                        | OECD 423                                                          |            |                  |
| Source                        | ECHA                                                              |            |                  |
| Evaluation/classification     | Based on available data, the classification criteria are not met. |            |                  |
| 3                             | zinc oxide                                                        | 1314-13-2  | 215-222-5        |
| LD50                          | >                                                                 | 5000       | mg/kg bodyweight |
| Species                       | rat                                                               |            |                  |
| Method                        | OECD 401                                                          |            |                  |
| Source                        | ECHA                                                              |            |                  |
| Acute dermal toxicity         |                                                                   |            |                  |
| No                            | Substance name                                                    | CAS no.    | EC no.           |
| 1                             | ethyl-acetate                                                     | 141-78-6   | 205-500-4        |
| LD50                          | >                                                                 | 20000      | mg/kg bodyweight |
| Species                       | rabbit                                                            |            |                  |
| Source                        | ECHA                                                              |            |                  |
| Acute inhalational toxicity   |                                                                   |            |                  |
| No                            | Substance name                                                    | CAS no.    | EC no.           |
| 1                             | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 64742-49-0 | 921-024-6        |
| LC50                          | >                                                                 | 25.2       | mg/l             |
| Duration of exposure          |                                                                   | 4          | h                |
| State of aggregation          | Vapour                                                            |            |                  |
| Species                       | rat                                                               |            |                  |
| Source                        | ECHA                                                              |            |                  |
| Evaluation/classification     | Based on available data, the classification criteria are not met. |            |                  |
| Skin corrosion/irritation     |                                                                   |            |                  |
| No                            | Substance name                                                    | CAS no.    | EC no.           |
| 1                             | ethyl-acetate                                                     | 141-78-6   | 205-500-4        |
| Species                       | rabbit                                                            |            |                  |
| Method                        | OECD 404                                                          |            |                  |
| Source                        | ECHA                                                              |            |                  |
| Evaluation                    | low-irritant                                                      |            |                  |
| Evaluation/classification     | Based on available data, the classification criteria are not met. |            |                  |
| 2                             | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 64742-49-0 | 921-024-6        |
| Species                       | rabbit                                                            |            |                  |
| Method                        | OECD 404                                                          |            |                  |
| Source                        | ECHA                                                              |            |                  |
| Evaluation                    | irritant                                                          |            |                  |
| Evaluation/classification     | Based on available data, the classification criteria are met.     |            |                  |
| 3                             | butanone                                                          | 78-93-3    | 201-159-0        |
| Duration of exposure          |                                                                   | 4          | h                |
| Species                       | rabbit                                                            |            |                  |
| Method                        | OECD 404                                                          |            |                  |
| Source                        | ECHA                                                              |            |                  |
| Evaluation                    | non-irritant                                                      |            |                  |
| Evaluation/classification     | Based on available data, the classification criteria are not met. |            |                  |
| Serious eye damage/irritation |                                                                   |            |                  |
| No                            | Substance name                                                    | CAS no.    | EC no.           |
| 1                             | ethyl-acetate                                                     | 141-78-6   | 205-500-4        |
| Species                       | rabbit                                                            |            |                  |
| Method                        | OECD 405                                                          |            |                  |
| Source                        | ECHA                                                              |            |                  |
| Evaluation                    | low-irritant                                                      |            |                  |
| 2                             | butanone                                                          | 78-93-3    | 201-159-0        |
| Species                       | rabbit                                                            |            |                  |



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|                           |                                                               |
|---------------------------|---------------------------------------------------------------|
| Method                    | OECD 405                                                      |
| Source                    | ECHA                                                          |
| Evaluation                | irritant                                                      |
| Evaluation/classification | Based on available data, the classification criteria are met. |

| Respiratory or skin sensitisation |                                                                   |          |           |
|-----------------------------------|-------------------------------------------------------------------|----------|-----------|
| No                                | Substance name                                                    | CAS no.  | EC no.    |
| 1                                 | ethyl-acetate                                                     | 141-78-6 | 205-500-4 |
| Route of exposure                 |                                                                   | Skin     |           |
| Species                           | guinea pig                                                        |          |           |
| Method                            | OECD 406                                                          |          |           |
| Source                            | ECHA                                                              |          |           |
| Evaluation                        | non-sensitizing                                                   |          |           |
| 2                                 | butanone                                                          | 78-93-3  | 201-159-0 |
| Route of exposure                 |                                                                   | Skin     |           |
| Species                           | guinea pig                                                        |          |           |
| Method                            | OECD 406                                                          |          |           |
| Source                            | ECHA                                                              |          |           |
| Evaluation                        | non-sensitizing                                                   |          |           |
| Evaluation/classification         | Based on available data, the classification criteria are not met. |          |           |

| Germ cell mutagenicity    |                                                                               |         |           |
|---------------------------|-------------------------------------------------------------------------------|---------|-----------|
| No                        | Substance name                                                                | CAS no. | EC no.    |
| 1                         | butanone                                                                      | 78-93-3 | 201-159-0 |
| Type of examination       | in vitro gene mutation study in bacteria                                      |         |           |
| Species                   | Salmonella typhimurium                                                        |         |           |
| Method                    | OECD 471                                                                      |         |           |
| Source                    | ECHA                                                                          |         |           |
| Evaluation/classification | Based on available data, the classification criteria are not met.             |         |           |
| Type of examination       | In vitro Mammalian Chromosomal Aberration Test                                |         |           |
| Species                   | rat                                                                           |         |           |
| Method                    | OECD 473                                                                      |         |           |
| Source                    | ECHA                                                                          |         |           |
| Evaluation/classification | Based on available data, the classification criteria are not met.             |         |           |
| Type of examination       | In vitro mammalian cell gene mutation test                                    |         |           |
| Species                   | Mouse lymphoma cells                                                          |         |           |
| Method                    | OECD 476                                                                      |         |           |
| Source                    | ECHA                                                                          |         |           |
| Evaluation/classification | Based on available data, the classification criteria are not met.             |         |           |
| Type of examination       | In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus |         |           |
| Species                   | mouse                                                                         |         |           |
| Method                    | OECD 474                                                                      |         |           |
| Source                    | ECHA                                                                          |         |           |
| Evaluation/classification | Based on available data, the classification criteria are not met.             |         |           |

| Reproduction toxicity     |                |                                                                   |           |
|---------------------------|----------------|-------------------------------------------------------------------|-----------|
| No                        | Substance name | CAS no.                                                           | EC no.    |
| 1                         | butanone       | 78-93-3                                                           | 201-159-0 |
| Route of exposure         |                | inhalational                                                      |           |
| Type of examination       |                | Prenatal Developmental Toxicity Study                             |           |
| Species                   |                | rat                                                               |           |
| Method                    |                | OECD 414                                                          |           |
| Source                    |                | ECHA                                                              |           |
| Evaluation/classification |                | Based on available data, the classification criteria are not met. |           |

| Carcinogenicity           |                                                                   |         |           |
|---------------------------|-------------------------------------------------------------------|---------|-----------|
| No                        | Substance name                                                    | CAS no. | EC no.    |
| 1                         | butanone                                                          | 78-93-3 | 201-159-0 |
| Source                    | ECHA                                                              |         |           |
| Evaluation/classification | Based on available data, the classification criteria are not met. |         |           |

| STOT - single exposure    |                                                               |              |           |
|---------------------------|---------------------------------------------------------------|--------------|-----------|
| No                        | Substance name                                                | CAS no.      | EC no.    |
| 1                         | ethyl-acetate                                                 | 141-78-6     | 205-500-4 |
| Route of exposure         |                                                               | inhalational |           |
| NOEC                      |                                                               | 350          | ppm       |
| Species                   | rat                                                           |              |           |
| Source                    | ECHA                                                          |              |           |
| Effects                   | May cause drowsiness or dizziness.                            |              |           |
| Evaluation/classification | Based on available data, the classification criteria are met. |              |           |

| STOT - repeated exposure |  |  |  |
|--------------------------|--|--|--|
|--------------------------|--|--|--|

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| No                              | Substance name                                                    | CAS no.                                                           | EC no.    |
|---------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|-----------|
| 1                               | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 64742-49-0                                                        | 921-024-6 |
| Route of exposure               |                                                                   | inhalational                                                      |           |
| NOAEC                           |                                                                   | 14000                                                             | mg/m³     |
| Species                         |                                                                   | rat                                                               |           |
| Source                          |                                                                   | ECHA                                                              |           |
| 2                               | butanone                                                          | 78-93-3                                                           | 201-159-0 |
| Route of exposure               |                                                                   | inhalational                                                      |           |
| Species                         |                                                                   | rat                                                               |           |
| Method                          |                                                                   | OECD 413                                                          |           |
| Source                          |                                                                   | ECHA                                                              |           |
| Evaluation/classification       |                                                                   | Based on available data, the classification criteria are not met. |           |
| Aspiration hazard               |                                                                   |                                                                   |           |
| No data available               |                                                                   |                                                                   |           |
| Endocrine disrupting properties |                                                                   |                                                                   |           |
| No data available               |                                                                   |                                                                   |           |

## 11.2 Information on other hazards

### Other information

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Toxicity to fish (acute)          |                                                                   |                                                                   |           |
|-----------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|-----------|
| No                                | Substance name                                                    | CAS no.                                                           | EC no.    |
| 1                                 | ethyl-acetate                                                     | 141-78-6                                                          | 205-500-4 |
| LC50                              |                                                                   | 220                                                               | mg/l      |
| Duration of exposure              |                                                                   | 96                                                                | h         |
| Species                           |                                                                   | Pimephales promelas                                               |           |
| Source                            |                                                                   | ECHA                                                              |           |
| 2                                 | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 64742-49-0                                                        | 921-024-6 |
| LC50                              |                                                                   | 11.4                                                              | mg/l      |
| Duration of exposure              |                                                                   | 96                                                                | h         |
| Species                           |                                                                   | Oncorhynchus mykiss                                               |           |
| Method                            |                                                                   | OECD 203                                                          |           |
| Source                            |                                                                   | ECHA                                                              |           |
| Evaluation/classification         |                                                                   | Based on available data, the classification criteria are not met. |           |
| 3                                 | butanone                                                          | 78-93-3                                                           | 201-159-0 |
| LC50                              |                                                                   | 2973                                                              | mg/l      |
| Duration of exposure              |                                                                   | 96                                                                | h         |
| Species                           |                                                                   | Pimephales promelas                                               |           |
| Method                            |                                                                   | OECD 203                                                          |           |
| Source                            |                                                                   | ECHA                                                              |           |
| <b>Toxicity to fish (chronic)</b> |                                                                   |                                                                   |           |
| No data available                 |                                                                   |                                                                   |           |
| Toxicity to Daphnia (acute)       |                                                                   |                                                                   |           |
| No                                | Substance name                                                    | CAS no.                                                           | EC no.    |
| 1                                 | ethyl-acetate                                                     | 141-78-6                                                          | 205-500-4 |
| EC50                              |                                                                   | 3090                                                              | mg/l      |
| Duration of exposure              |                                                                   | 24                                                                | h         |
| Species                           |                                                                   | Daphnia magna                                                     |           |
| Source                            |                                                                   | ECHA                                                              |           |
| 2                                 | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 64742-49-0                                                        | 921-024-6 |
| EL50                              |                                                                   | 3                                                                 | mg/l      |
| Duration of exposure              |                                                                   | 48                                                                | h         |
| Species                           |                                                                   | Daphnia magna                                                     |           |
| Method                            |                                                                   | OECD 202                                                          |           |
| Source                            |                                                                   | ECHA                                                              |           |
| Evaluation/classification         |                                                                   | Based on available data, the classification criteria are met.     |           |
| 3                                 | butanone                                                          | 78-93-3                                                           | 201-159-0 |
| EC50                              |                                                                   | 308                                                               | mg/l      |
| Duration of exposure              |                                                                   | 48                                                                | h         |

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|---------|---------------|
| Species | Daphnia magna |
| Method  | OECD 202      |
| Source  | ECHA          |

| Toxicity to Daphnia (chronic) |                |          |           |
|-------------------------------|----------------|----------|-----------|
| No                            | Substance name | CAS no.  | EC no.    |
| 1                             | ethyl-acetate  | 141-78-6 | 205-500-4 |
| NOEC                          |                | 2.4      | mg/l      |
| Species                       | Daphnia magna  |          |           |
| Method                        | OECD 211       |          |           |

| Toxicity to algae (acute) |                                                                   |            |           |
|---------------------------|-------------------------------------------------------------------|------------|-----------|
| No                        | Substance name                                                    | CAS no.    | EC no.    |
| 1                         | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 64742-49-0 | 921-024-6 |
| EL50                      |                                                                   | 30         | mg/l      |
| Duration of exposure      |                                                                   | 72         | h         |
| Species                   | Pseudokirchneriella subcapitata                                   |            |           |
| Method                    | OECD 201                                                          |            |           |
| Source                    | ECHA                                                              |            |           |
| 2                         | butanone                                                          | 78-93-3    | 201-159-0 |
| EC50                      |                                                                   | 1220       | mg/l      |
| Duration of exposure      |                                                                   | 96         | h         |
| Species                   | Raphidocelis subcapitata                                          |            |           |
| Method                    | OECD 201                                                          |            |           |
| Source                    | ECHA                                                              |            |           |

| Toxicity to algae (chronic) |                         |          |           |
|-----------------------------|-------------------------|----------|-----------|
| No                          | Substance name          | CAS no.  | EC no.    |
| 1                           | ethyl-acetate           | 141-78-6 | 205-500-4 |
| NOEC                        |                         | > 100    | mg/l      |
| Species                     | Desmodesmus subspicatus |          |           |
| Method                      | OECD 201                |          |           |
| Source                      | ECHA                    |          |           |

| Bacteria toxicity |  |  |  |
|-------------------|--|--|--|
| No data available |  |  |  |

## 12.2 Persistence and degradability

| Biodegradability |                                                                   |            |           |
|------------------|-------------------------------------------------------------------|------------|-----------|
| No               | Substance name                                                    | CAS no.    | EC no.    |
| 1                | ethyl-acetate                                                     | 141-78-6   | 205-500-4 |
| Type             | COD                                                               |            |           |
| Value            |                                                                   | 1.69       | g O2/g    |
| Source           | ECHA                                                              |            |           |
| Evaluation       | readily biodegradable                                             |            |           |
| 2                | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 64742-49-0 | 921-024-6 |
| Value            |                                                                   | 98         | %         |
| Duration         |                                                                   | 28         | day(s)    |
| Method           | OECD 301 F                                                        |            |           |
| Source           | ECHA                                                              |            |           |
| Evaluation       | readily biodegradable                                             |            |           |
| 3                | butanone                                                          | 78-93-3    | 201-159-0 |
| Type             | aerobic biodegradation                                            |            |           |
| Value            |                                                                   | 98         | %         |
| Duration         |                                                                   | 28         | day(s)    |
| Method           | OECD 301 D                                                        |            |           |
| Source           | ECHA                                                              |            |           |
| Evaluation       | readily biodegradable                                             |            |           |

## 12.3 Bioaccumulative potential

| Partition coefficient n-octanol/water (log value) |                                                                   |            |           |
|---------------------------------------------------|-------------------------------------------------------------------|------------|-----------|
| No                                                | Substance name                                                    | CAS no.    | EC no.    |
| 1                                                 | ethyl-acetate                                                     | 141-78-6   | 205-500-4 |
| log Pow                                           |                                                                   | 0.68       |           |
| Reference temperature                             |                                                                   | 25         | °C        |
| Source                                            | ECHA                                                              |            |           |
| 2                                                 | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 64742-49-0 | 921-024-6 |

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|-----------------------|-----------------|----------------|------------------|----|
| log Pow               | 2.96            | -              | 3.78             |    |
| Reference temperature |                 |                | 20               | °C |
| with reference to     | pH 7            |                |                  |    |
| Method                | QSAR            |                |                  |    |
| Source                | ECHA            |                |                  |    |
| <b>3</b>              | <b>butanone</b> | <b>78-93-3</b> | <b>201-159-0</b> |    |
| log Pow               |                 |                | 0.3              |    |
| Reference temperature |                 |                | 40               | °C |
| Method                | OECD 117        |                |                  |    |
| Source                | ECHA            |                |                  |    |

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

| Results of PBT and vPvB assessment |                    |
|------------------------------------|--------------------|
| Product Name                       |                    |
| Armaflex HT625                     |                    |
| PBT assessment                     | No data available. |
| vPvB assessment                    | No data available. |

#### 12.6 Endocrine disrupting properties

No data available.

#### 12.7 Other adverse effects

No data available.

#### 12.8 Other information

| Other information                                                                 |
|-----------------------------------------------------------------------------------|
| Do not discharge into drains or waters and do not dispose of in public landfills. |

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

Waste code 08 04 09\* waste adhesives and sealants containing organic solvents or other hazardous substances  
Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.  
dispose of in accordance with local regulation.

##### Packaging

Waste code 15 01 10\* packaging containing residues of or contaminated by hazardous substances  
Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR/RID/ADN UN1133  
IMDG UN1133  
ICAO-TI / IATA UN1133

#### 14.2 UN proper shipping name

ADR/RID/ADN ADHESIVES  
IMDG ADHESIVES  
Technical name Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane  
ICAO-TI / IATA Adhesives

#### 14.3 Transport hazard class(es)

ADR/RID/ADN - Class 3  
Label 3  
Classification code F1  
Tunnel restriction code D/E  
Hazard identification no. 33  
Special Provision 640 640D  
IMDG - Class 3  
Label 3  
ICAO-TI / IATA - Class 3  
Label 3

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- 14.4 Packing group**  
 ADR/RID/ADN II  
 IMDG II  
 ICAO-TI / IATA II
- 14.5 Environmental hazards**  
 ADR/RID/ADN Symbol "fish and tree"  
 IMDG Symbol "fish and tree"  
 EmS F-E, S-D

- 14.6 Special precautions for user**  
 No data available.

- 14.7 Maritime transport in bulk according to IMO instruments**  
 Not relevant

## SECTION 15: Regulatory information

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

| Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)                                                                                                                                                                                                                               |                                                                   |            |           |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------|-----------|----------|
| According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.                                                                         |                                                                   |            |           |          |
| REACH candidate list of substances of very high concern (SVHC) for authorisation                                                                                                                                                                                                                                           |                                                                   |            |           |          |
| According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006. |                                                                   |            |           |          |
| Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES                                                                                                                                                     |                                                                   |            |           |          |
| The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.                                                                                                                                                                                                                                     |                                                                   |            |           | No 3, 40 |
| The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.                                                                                                                                                                                               |                                                                   |            |           |          |
| No                                                                                                                                                                                                                                                                                                                         | Substance name                                                    | CAS no.    | EC no.    | No       |
| 1                                                                                                                                                                                                                                                                                                                          | butanone                                                          | 78-93-3    | 201-159-0 | 75       |
| 2                                                                                                                                                                                                                                                                                                                          | Colophony                                                         | 8050-09-7  | 232-475-7 | 75       |
| 3                                                                                                                                                                                                                                                                                                                          | ethyl-acetate                                                     | 141-78-6   | 205-500-4 | 75       |
| 4                                                                                                                                                                                                                                                                                                                          | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 64742-49-0 | 921-024-6 | 75       |
| Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances                                                                                                                                                                                                                               |                                                                   |            |           |          |
| This product is subject to Part I of Annex I, risk category:                                                                                                                                                                                                                                                               |                                                                   |            |           | E2, P5b  |
| If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.                                                                                                                |                                                                   |            |           |          |
| Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)                                                                                                                                                                                                                                 |                                                                   |            |           |          |
| VOC content                                                                                                                                                                                                                                                                                                                |                                                                   | 82         | %         |          |
| Other regulations                                                                                                                                                                                                                                                                                                          |                                                                   |            |           |          |
| Entry 75 is not applicable to the product as it is not used for the preparation of colourants for tattooing purposes.                                                                                                                                                                                                      |                                                                   |            |           |          |
| Adhere to the national sanitary and occupational safety regulations when using this product.                                                                                                                                                                                                                               |                                                                   |            |           |          |

- 15.2 Chemical safety assessment**  
 A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

### Further information

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The information is based on our current knowledge however it does not represent a guarantee of product properties nor does it create any legal obligation.

### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP), 2020/878 as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

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|        |                                                       |
|--------|-------------------------------------------------------|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| H304   | May be fatal if swallowed and enters airways.         |
| H317   | May cause an allergic skin reaction.                  |
| H400   | Very toxic to aquatic life.                           |
| H410   | Very toxic to aquatic life with long lasting effects. |

**Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)**  
P The harmonised classification as a carcinogen applies unless the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen, in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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