

## Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

### SKIL GUARD S

Date of first edition: 6/10/2024

Safety Data Sheet dated 10/06/2024

version 1

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

### 1.1. Product identifier

Mixture identification:

Trade name: SKIL GUARD S

Trade code: 11092020 -3

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

Recommended use: Waterproofing product

Uses advised against: All uses other than recommended ones

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

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel. +39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

### 1.4. Emergency telephone number

European emergency phone number 112

Ireland Poison information centre: 01 809 2166 (Daily 8am-10pm) In case of emergency call 999 or 112

Malta In case of emergency call: +356 2395 2000 (24h)

## SECTION 2: Hazards identification



### 2.1. Classification of the substance or mixture

#### Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 3 Flammable liquid and vapour.

STOT SE 3 May cause drowsiness or dizziness.

Asp. Tox. 1 May be fatal if swallowed and enters airways.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

#### Regulation (EC) No 1272/2008 (CLP):

#### Hazard pictograms and Signal Word



Danger

#### Hazard statements

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

#### Precautionary statements

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe mist.

P280 Wear protective gloves and eye protection.

P331 Do NOT induce vomiting.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains

Hydrocarbons, C9-C11, n-alkanes,  
isoalkanes, cyclics, <2% aromatics

xylene

Dir. 2004/42/EC (VOC directive)

Binding primers  
EU limit value for this product (cat. A/h): 750 g/l  
This product contains max 737.86 g/l VOC.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: SKIL GUARD S

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty         | Name                                                                | Ident. Numb.                                        | Classification                                                                                                                                                                                 | Registration Number |
|-------------|---------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| ≥ 90%       | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | EC:919-857-5                                        | Asp. Tox. 1, H304; Flam. Liq. 3, H226; STOT SE 3, H336, EUH066                                                                                                                                 | 01-2119463258-33    |
| ≥1-<3 %     | xylene                                                              | CAS:1330-20-7<br>EC:215-535-7<br>Index:601-022-00-9 | Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 3, H412; Eye Irrit. 2, H319, M-Chronic:1 | 01-2119488216-32    |
| ≥0.5-<1 %   | tetraethyl silicate; ethyl silicate                                 | CAS:78-10-4<br>EC:201-083-8<br>Index:014-005-00-0   | Flam. Liq. 3, H226; Eye Irrit. 2, H319; STOT SE 3, H335; Acute Tox. 4, H332                                                                                                                    | 01-2119496195-28    |
| ≥0.3-<0.5 % | methanol                                                            | CAS:67-56-1<br>EC:200-659-6<br>Index:603-001-00-X   | Flam. Liq. 2, H225 STOT SE 1, H370 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331<br><br>Specific Concentration Limits:<br>C ≥ 10%: STOT SE 1 H370<br>3% ≤ C < 10%: STOT SE 2 H371   | 01-2119433307-44    |
| ≥0.3-<0.5 % | ethylbenzene                                                        | CAS:100-41-4<br>EC:202-849-4<br>Index:601-023-00-4  | Flam. Liq. 2, H225; Acute Tox. 4, H332; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 3, H412                                                                                            | 01-2119489370-35    |
| <0.05 %     | toluene                                                             | CAS:108-88-3<br>EC:203-625-9<br>Index:601-021-00-3  | Flam. Liq. 2, H225; Repr. 2, H361d; Asp. Tox. 1, H304; STOT RE 2, H373; Skin Irrit. 2, H315; STOT SE 3, H336                                                                                   | 01-2116471310-51    |

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.  
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately

with plenty of running water and possibly with soap.  
Wash thoroughly the body (shower or bath).  
Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

N.A.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

#### **5.3. Advice for firefighters**

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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### **SECTION 6: Accidental release measures**

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

**For non emergency personnel:**

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

**For emergency responders:**

Wear personal protection equipment.

#### **6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

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

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

#### **6.4. Reference to other sections**

See also section 8 and 13

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### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Advice on general occupational hygiene:**

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

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

### 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Community Occupational Exposure Limits (OEL)

|                          | OEL Type | Country         | Occupational Exposure Limit                                                                                                                                                                |
|--------------------------|----------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xylene<br>CAS: 1330-20-7 | ACGIH    |                 | Long Term: 20 ppm (8h)<br>A4, BEI - URT and eye irr; hematologic eff; CNS impair                                                                                                           |
|                          | EU       |                 | Long Term: 221 mg/m <sup>3</sup> - 50 ppm (8h); Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>Skin                                                                                        |
|                          | NATIONAL | AUSTRIA         | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>15(Miw), 4x, MAK<br>Source: BGBl. II Nr. 156/2021                                                |
|                          | NATIONAL | BULGARIA        | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>Кожа<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.                                              |
|                          | NATIONAL | CZECHIA         | Long Term: 200 mg/m <sup>3</sup> ; Short Term: Ceiling - 400 mg/m <sup>3</sup><br>B, D, I<br>Source: Nařízení vlády č. 361-2007 Sb                                                         |
|                          | NATIONAL | DENMARK         | Long Term: 109 mg/m <sup>3</sup> - 25 ppm<br>EH<br>Source: BEK nr 2203 af 29/11/2021                                                                                                       |
|                          | NATIONAL | ESTONIA         | Long Term: 200 mg/m <sup>3</sup> - 50 ppm; Short Term: 450 mg/m <sup>3</sup> - 100 ppm<br>A<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105                               |
|                          | NATIONAL | FINLAND         | Long Term: 220 mg/m <sup>3</sup> - 50 ppm; Short Term: 440 mg/m <sup>3</sup> - 100 ppm<br>iho<br>Source: HTP-ARVOT 2020                                                                    |
|                          | NATIONAL | FRANCE          | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>Risque de pénétration percutanée<br>Source: INRS outil65, article R. 4412-149 du Code du travail |
|                          | NATIONAL | GREECE          | Long Term: 435 mg/m <sup>3</sup> - 100 ppm; Short Term: 650 mg/m <sup>3</sup> - 150 ppm<br>Δ<br>Source: ΦΕΚ 94/Α` 13.5.1999                                                                |
|                          | NATIONAL | HUNGARY         | Long Term: 221 mg/m <sup>3</sup> ; Short Term: 442 mg/m <sup>3</sup><br>b, BEM, EU1, R<br>Source: 5/2020. (II. 6.) ITM rendelet                                                            |
|                          | NATIONAL | LITHUANIA       | Long Term: 200 mg/m <sup>3</sup> - 50 ppm; Short Term: 450 mg/m <sup>3</sup> - 100 ppm<br>O<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389                                               |
|                          | NATIONAL | NETHERLAND<br>S | Long Term: 210 mg/m <sup>3</sup> ; Short Term: 442 mg/m <sup>3</sup><br>H<br>Source: Arbeidsomstandighedenregeling - Lijst A                                                               |
|                          | NATIONAL | NORWAY          | Long Term: 108 mg/m <sup>3</sup> - 25 ppm<br>H E<br>Source: FOR-2021-06-28-2248                                                                                                            |
|                          | NATIONAL | POLAND          | Long Term: 100 mg/m <sup>3</sup> ; Short Term: 200 mg/m <sup>3</sup><br>skóra<br>Source: Dz.U. 2018 poz. 1286                                                                              |
|                          | NATIONAL | SLOVAKIA        | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>K, 7)<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006                                            |
|                          | NATIONAL | SWEDEN          | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm                                                                                                     |

H  
Source: AFS 2021:3

|                                                     |                                                      |                                                                                                                                                                                                        |
|-----------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SUVA                                                | SWITZERLAND                                          | Long Term: 220 mg/m <sup>3</sup> - 50 ppm; Short Term: 440 mg/m <sup>3</sup> - 100 ppm<br>R/H, B, SNC / ZNS, NIOSH INRS<br>Source: suva.ch/valeurs-limites                                             |
| WEL-EH40                                            | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 220 mg/m <sup>3</sup> - 50 ppm; Short Term: 441 mg/m <sup>3</sup> - 100 ppm<br>Sk, BMGV<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                |
| NATIONAL                                            | BELGIUM                                              | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>D<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1                                |
| NATIONAL                                            | CROATIA                                              | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>koža<br>Source: 2000/39/EZ                                                                                   |
| NATIONAL                                            | CYPRUS                                               | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>δέρμα<br>Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021 |
| NATIONAL                                            | GERMANY                                              | Long Term: 220 mg/m <sup>3</sup> - 50 ppm<br>DFG, EU, H, 2(II)<br>Source: TRGS 900                                                                                                                     |
| NATIONAL                                            | IRELAND                                              | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>Sk, IOELV<br>Source: 2021 Code of Practice                                                                   |
| NATIONAL                                            | ITALY                                                | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>Cute<br>Source: D.lgs. 81/2008, Allegato XXXVIII                                                             |
| NATIONAL                                            | LATVIA                                               | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>Āda<br>Source: KN325P1                                                                                       |
| NATIONAL                                            | LUXEMBOURG                                           | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>Peau<br>Source: Mémorial A n.226 du 22 mars 2021                                                             |
| NATIONAL                                            | MALTA                                                | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>skin<br>Source: S.L.424.24                                                                                   |
| NATIONAL                                            | PORTUGAL                                             | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>Cutânea<br>Source: Decreto-Lei n.º 1/2021                                                                    |
| NATIONAL                                            | ROMANIA                                              | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>P, Dir. 2000/39<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021                                        |
| NATIONAL                                            | SLOVENIA                                             | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>K, BAT, EU1<br>Source: UL št. 72, 11. 5. 2021                                                                |
| NATIONAL                                            | SPAIN                                                | Long Term: 221 mg/m <sup>3</sup> - 50 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>vía dérmica, VLB®, VLI<br>Source: LEP 2022                                                                   |
| tetraethyl silicate; ethyl silicate<br>CAS: 78-10-4 | ACGIH                                                | Long Term: 10 ppm (8h)<br>URT and eye irr, kidney dam                                                                                                                                                  |
|                                                     | EU                                                   | Long Term: 44 mg/m <sup>3</sup> - 5 ppm (8h)                                                                                                                                                           |
| NATIONAL                                            | AUSTRIA                                              | Long Term: 44 mg/m <sup>3</sup> - 5 ppm; Short Term: Ceiling - 88 mg/m <sup>3</sup> - 10 ppm<br>5(Mow), 8x, MAK<br>Source: BGBl. II Nr. 156/2021                                                       |
| NATIONAL                                            | BULGARIA                                             | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.                                                                                                                 |
| NATIONAL                                            | CZECHIA                                              | Long Term: 44 mg/m <sup>3</sup> ; Short Term: Ceiling - 176 mg/m <sup>3</sup>                                                                                                                          |

|          |                                                      |                                                                                                                                                |
|----------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                                                      | I<br>Source: Nařízení vlády č. 361-2007 Sb                                                                                                     |
| NATIONAL | DENMARK                                              | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>E<br>Source: BEK nr 2203 af 29/11/2021                                                              |
| NATIONAL | ESTONIA                                              | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105                                       |
| NATIONAL | FINLAND                                              | Long Term: 43 mg/m <sup>3</sup> - 5 ppm; Short Term: 86 mg/m <sup>3</sup> - 10 ppm<br>Source: HTP-ARVOT 2020                                   |
| NATIONAL | FRANCE                                               | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>Source: INRS outil65, arrêté du 30-06-2004 modifié                                                  |
| NATIONAL | HUNGARY                                              | Long Term: 44 mg/m <sup>3</sup><br>i, EU4, N<br>Source: 5/2020. (II. 6.) ITM rendelet                                                          |
| NATIONAL | NETHERLANDS                                          | Long Term: 44 mg/m <sup>3</sup><br>Source: Arbeidsomstandighedenregeling - Lijst A                                                             |
| NATIONAL | NORWAY                                               | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>E<br>Source: FOR-2021-06-28-2248                                                                    |
| NATIONAL | POLAND                                               | Long Term: 44 mg/m <sup>3</sup><br>Source: Dz.U. 2018 poz. 1286                                                                                |
| NATIONAL | SLOVAKIA                                             | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006                                                        |
| NATIONAL | SWEDEN                                               | Long Term: 44 mg/m <sup>3</sup> - 5 ppm; Short Term: 86 mg/m <sup>3</sup> - 10 ppm<br>Source: AFS 2021:3                                       |
| SUVA     | SWITZERLAND                                          | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>Nez / Nase, NIOSH<br>Source: suva.ch/valeurs-limites                                                |
| WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                   |
| NATIONAL | BELGIUM                                              | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1                            |
| NATIONAL | CROATIA                                              | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>Source: 2017/164/EU                                                                                 |
| NATIONAL | CYPRUS                                               | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021 |
| NATIONAL | GERMANY                                              | Long Term: 12 mg/m <sup>3</sup> - 1.4 ppm<br>AGS, 1(I)<br>Source: TRGS 900                                                                     |
| NATIONAL | GREECE                                               | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>Source: Π.Δ. 82/2018 (ΦΕΚ 152/Α` 21.8.2018)                                                         |
| NATIONAL | IRELAND                                              | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>IOELV<br>Source: 2021 Code of Practice                                                              |
| NATIONAL | ITALY                                                | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>Source: D.lgs. 81/2008, Allegato XXXVIII                                                            |
| NATIONAL | LATVIA                                               | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>Source: KN325P1                                                                                     |
| NATIONAL | LUXEMBOURG                                           | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>Source: Mémorial A n.226 du 22 mars 2021                                                            |
| NATIONAL | MALTA                                                | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>Source: S.L.424.24                                                                                  |

methanol  
CAS: 67-56-1

|          |                 |                                                                                                                                                                                               |
|----------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NATIONAL | PORTUGAL        | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>Source: Decreto-Lei n.º 1/2021                                                                                                                     |
| NATIONAL | ROMANIA         | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>Dir. 2017/164<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021                                                                                |
| NATIONAL | SLOVENIA        | Long Term: 44 mg/m <sup>3</sup> - 5 ppm; Short Term: 44 mg/m <sup>3</sup> - 5 ppm<br>EU4<br>Source: UL št. 72, 11. 5. 2021                                                                    |
| NATIONAL | SPAIN           | Long Term: 44 mg/m <sup>3</sup> - 5 ppm<br>VLI<br>Source: LEP 2022                                                                                                                            |
| ACGIH    |                 | Long Term: 200 ppm (8h); Short Term: 250 ppm<br>Skin, BEI - Headache, eye dam, dizziness, nausea                                                                                              |
| EU       |                 | Long Term: 260 mg/m <sup>3</sup> - 200 ppm (8h)<br>Skin                                                                                                                                       |
| NATIONAL | AUSTRIA         | Long Term: 260 mg/m <sup>3</sup> - 200 ppm; Short Term: 1040 mg/m <sup>3</sup> - 800 ppm<br>15(Miw), 4x, MAK, H<br>Source: BGBl. II Nr. 156/2021                                              |
| NATIONAL | BULGARIA        | Long Term: 260 mg/m <sup>3</sup> - 200 ppm<br>Кожа<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.                                                                                             |
| NATIONAL | CZECHIA         | Long Term: 250 mg/m <sup>3</sup> ; Short Term: Ceiling - 1000 mg/m <sup>3</sup><br>D, B<br>Source: Nařízení vlády č. 361-2007 Sb                                                              |
| NATIONAL | DENMARK         | Long Term: 260 mg/m <sup>3</sup> - 200 ppm<br>EH<br>Source: BEK nr 2203 af 29/11/2021                                                                                                         |
| NATIONAL | ESTONIA         | Long Term: 250 mg/m <sup>3</sup> - 200 ppm; Short Term: 350 mg/m <sup>3</sup> - 250 ppm<br>A<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105                                 |
| NATIONAL | FINLAND         | Long Term: 270 mg/m <sup>3</sup> - 200 ppm; Short Term: 330 mg/m <sup>3</sup> - 250 ppm<br>iho<br>Source: HTP-ARVOT 2020                                                                      |
| NATIONAL | FRANCE          | Long Term: 260 mg/m <sup>3</sup> - 200 ppm; Short Term: 1300 mg/m <sup>3</sup> - 1000 ppm<br>Risque de pénétration percutanée<br>Source: INRS outil65, article R. 4412-149 du Code du travail |
| NATIONAL | GREECE          | Long Term: 260 mg/m <sup>3</sup> - 200 ppm; Short Term: 325 mg/m <sup>3</sup> - 250 ppm<br>Δ<br>Source: ΦΕΚ 94/Α` 13.5.1999                                                                   |
| NATIONAL | HUNGARY         | Long Term: 260 mg/m <sup>3</sup><br>b, i, BEM, EU2, R+T<br>Source: 5/2020. (II. 6.) ITM rendelet                                                                                              |
| NATIONAL | LITHUANIA       | Long Term: 260 mg/m <sup>3</sup> - 200 ppm<br>O<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389                                                                                              |
| NATIONAL | NETHERLAND<br>S | Long Term: 133 mg/m <sup>3</sup><br>H<br>Source: Arbeidsomstandighedenregeling - Lijst A                                                                                                      |
| NATIONAL | NORWAY          | Long Term: 130 mg/m <sup>3</sup> - 100 ppm<br>H E<br>Source: FOR-2021-06-28-2248                                                                                                              |
| NATIONAL | POLAND          | Long Term: 100 mg/m <sup>3</sup> ; Short Term: 300 mg/m <sup>3</sup><br>skóra<br>Source: Dz.U. 2018 poz. 1286                                                                                 |
| NATIONAL | SLOVAKIA        | Long Term: 260 mg/m <sup>3</sup> - 200 ppm<br>K, 7)<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006                                                                                           |
| NATIONAL | SWEDEN          | Long Term: 250 mg/m <sup>3</sup> - 200 ppm; Short Term: 350 mg/m <sup>3</sup> - 250 ppm<br>H, V<br>Source: AFS 2021:3                                                                         |

|                               |                                                      |                                                                                                                                                                          |
|-------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SUVA                          | SWITZERLAND                                          | Long Term: 260 mg/m <sup>3</sup> - 200 ppm; Short Term: 520 mg/m <sup>3</sup> - 400 ppm<br>R/H, SSC, B, SNC / ZNS, INRS NIOSH<br>Source: suva.ch/valeurs-limites         |
| WEL-EH40                      | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 266 mg/m <sup>3</sup> - 200 ppm; Short Term: 333 mg/m <sup>3</sup> - 250 ppm<br>Sk<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)       |
| NATIONAL                      | BELGIUM                                              | Long Term: 266 mg/m <sup>3</sup> - 200 ppm; Short Term: 333 mg/m <sup>3</sup> - 250 ppm<br>D<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| NATIONAL                      | CROATIA                                              | Long Term: 260 mg/m <sup>3</sup> - 200 ppm<br>koža<br>Source: 2006/15/EZ                                                                                                 |
| NATIONAL                      | CYPRUS                                               | Long Term: 260 mg/m <sup>3</sup> - 200 ppm<br>δέρμα<br>Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021               |
| NATIONAL                      | GERMANY                                              | Long Term: 130 mg/m <sup>3</sup> - 100 ppm<br>DFG, EU, H, Y, 2(II)<br>Source: TRGS 900                                                                                   |
| NATIONAL                      | IRELAND                                              | Long Term: 260 mg/m <sup>3</sup> - 200 ppm<br>Sk, IOELV<br>Source: 2021 Code of Practice                                                                                 |
| NATIONAL                      | ITALY                                                | Long Term: 260 mg/m <sup>3</sup> - 200 ppm<br>Cute<br>Source: D.lgs. 81/2008, Allegato XXXVIII                                                                           |
| NATIONAL                      | LATVIA                                               | Long Term: 260 mg/m <sup>3</sup> - 200 ppm<br>Āda<br>Source: KN325P1                                                                                                     |
| NATIONAL                      | LUXEMBOURG                                           | Long Term: 260 mg/m <sup>3</sup> - 200 ppm<br>Peau<br>Source: Mémorial A n.226 du 22 mars 2021                                                                           |
| NATIONAL                      | MALTA                                                | Long Term: 260 mg/m <sup>3</sup> - 200 ppm<br>skin<br>Source: S.L.424.24                                                                                                 |
| NATIONAL                      | PORTUGAL                                             | Long Term: 260 mg/m <sup>3</sup> - 200 ppm<br>Cutânea<br>Source: Decreto-Lei n.º 1/2021                                                                                  |
| NATIONAL                      | ROMANIA                                              | Long Term: 260 mg/m <sup>3</sup> - 200 ppm<br>P, Dir. 2006/15<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021                                                      |
| NATIONAL                      | SLOVENIA                                             | Long Term: 260 mg/m <sup>3</sup> - 200 ppm; Short Term: 1040 mg/m <sup>3</sup> - 800 ppm<br>K, Y, BAT, EU2<br>Source: UL št. 72, 11. 5. 2021                             |
| NATIONAL                      | SPAIN                                                | Long Term: 266 mg/m <sup>3</sup> - 200 ppm<br>vía dérmica, VLB®, VLI, r<br>Source: LEP 2022                                                                              |
| ethylbenzene<br>CAS: 100-41-4 | ACGIH                                                | Long Term: 20 ppm (8h)<br>OTO; A3, BEI - URT & eye irr; ototoxicity; kidney eff; CNS impair                                                                              |
|                               | EU                                                   | Long Term: 442 mg/m <sup>3</sup> - 100 ppm (8h); Short Term: 884 mg/m <sup>3</sup> - 200 ppm<br>Skin                                                                     |
|                               | NATIONAL                                             | AUSTRIA<br>Long Term: 440 mg/m <sup>3</sup> - 100 ppm; Short Term: Ceiling - 880 mg/m <sup>3</sup> - 200 ppm<br>5(Mow), 8x, MAK, H<br>Source: BGBl. II Nr. 156/2021      |
|                               | NATIONAL                                             | BULGARIA<br>Long Term: 435 mg/m <sup>3</sup> ; Short Term: 545 mg/m <sup>3</sup><br>Кожа<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.                                  |
|                               | NATIONAL                                             | CZECHIA<br>Long Term: 200 mg/m <sup>3</sup> ; Short Term: Ceiling - 500 mg/m <sup>3</sup><br>D, B                                                                        |

|          |                                                                     |                                                                                                                                                                                                         |
|----------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NATIONAL | DENMARK                                                             | Long Term: 217 mg/m <sup>3</sup> - 50 ppm<br>EHK<br>Source: BEK nr 2203 af 29/11/2021                                                                                                                   |
| NATIONAL | ESTONIA                                                             | Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm<br>A, S<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105                                        |
| NATIONAL | FINLAND                                                             | Long Term: 220 mg/m <sup>3</sup> - 50 ppm; Short Term: 880 mg/m <sup>3</sup> - 200 ppm<br>iho<br>Source: HTP-ARVOT 2020                                                                                 |
| NATIONAL | FRANCE                                                              | Long Term: 88.4 mg/m <sup>3</sup> - 20 ppm; Short Term: 442 mg/m <sup>3</sup> - 100 ppm<br>Risque de pénétration percutanée<br>Source: INRS outil65, article R. 4412-149 du Code du travail             |
| NATIONAL | GREECE                                                              | Long Term: 435 mg/m <sup>3</sup> - 100 ppm; Short Term: 545 mg/m <sup>3</sup> - 125 ppm<br>Source: ΦΕΚ 94/Α` 13.5.1999                                                                                  |
| NATIONAL | HUNGARY                                                             | Long Term: 442 mg/m <sup>3</sup> ; Short Term: 884 mg/m <sup>3</sup><br>b, i, BEM, EU1, T<br>Source: 5/2020. (II. 6.) ITM rendelet                                                                      |
| NATIONAL | LITHUANIA                                                           | Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm<br>O<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389                                                           |
| NATIONAL | NETHERLAND<br>S                                                     | Long Term: 215 mg/m <sup>3</sup> ; Short Term: 430 mg/m <sup>3</sup><br>H<br>Source: Arbeidsomstandighedenregeling - Lijst A                                                                            |
| NATIONAL | NORWAY                                                              | Long Term: 20 mg/m <sup>3</sup> - 5 ppm<br>H K E<br>Source: FOR-2021-06-28-2248                                                                                                                         |
| NATIONAL | POLAND                                                              | Long Term: 200 mg/m <sup>3</sup> ; Short Term: 400 mg/m <sup>3</sup><br>skóra<br>Source: Dz.U. 2018 poz. 1286                                                                                           |
| NATIONAL | SLOVAKIA                                                            | Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm<br>K, 7)<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006                                                        |
| NATIONAL | SWEDEN                                                              | Long Term: 220 mg/m <sup>3</sup> - 50 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm<br>H<br>Source: AFS 2021:3                                                                                       |
| SUVA     | SWITZERLAND                                                         | Long Term: 220 mg/m <sup>3</sup> - 50 ppm; Short Term: 220 mg/m <sup>3</sup> - 50 ppm<br>R/H, OB, B, Rein Foie / Niere Leber, NIOSH<br>Source: suva.ch/valeurs-limites                                  |
| WEL-EH40 | UNITED<br>KINGDOM OF<br>GREAT<br>BRITAIN AND<br>NORTHERN<br>IRELAND | Long Term: 441 mg/m <sup>3</sup> - 100 ppm; Short Term: 552 mg/m <sup>3</sup> - 125 ppm<br>Sk<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                      |
| NATIONAL | CROATIA                                                             | Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm<br>koža<br>Source: 2000/39/EZ                                                                                   |
| NATIONAL | CYPRUS                                                              | Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm<br>δέρμα<br>Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021 |
| NATIONAL | GERMANY                                                             | Long Term: 88 mg/m <sup>3</sup> - 20 ppm<br>DFG, H, Y, EU, 2(II)<br>Source: TRGS 900                                                                                                                    |
| NATIONAL | IRELAND                                                             | Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm<br>Sk, IOELV<br>Source: 2021 Code of Practice                                                                   |
| NATIONAL | ITALY                                                               | Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm<br>Cute<br>Source: D.lgs. 81/2008, Allegato XXXVIII                                                             |

toluene  
CAS: 108-88-3

|          |             |                                                                                                                                                                                                                                          |
|----------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NATIONAL | LATVIA      | Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm<br>Āda; Ietekme uz dzirdi<br>Source: KN325P1                                                                                                     |
| NATIONAL | LUXEMBOURG  | Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm<br>Peau<br>Source: Mémorial A n.226 du 22 mars 2021                                                                                              |
| NATIONAL | MALTA       | Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm<br>skin<br>Source: S.L.424.24                                                                                                                    |
| NATIONAL | PORTUGAL    | Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm<br>Cutânea<br>Source: Decreto-Lei n.º 1/2021                                                                                                     |
| NATIONAL | ROMANIA     | Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm<br>P, Dir. 2000/39<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021                                                                         |
| NATIONAL | SLOVENIA    | Long Term: 442 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm<br>K, Y, BAT, EKA EU1<br>Source: UL št. 72, 11. 5. 2021                                                                                          |
| NATIONAL | SPAIN       | Long Term: 441 mg/m <sup>3</sup> - 100 ppm; Short Term: 884 mg/m <sup>3</sup> - 200 ppm<br>vía dérmica, VLB®, VLI<br>Source: LEP 2022                                                                                                    |
| ACGIH    |             | Long Term: 20 ppm (8h)<br>OTO; A4; BEI - CNS, visual & hearing impair; female repro system eff; pregnancy loss                                                                                                                           |
| EU       |             | Long Term: 192 mg/m <sup>3</sup> - 50 ppm (8h); Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>Skin                                                                                                                                      |
| NATIONAL | AUSTRIA     | Long Term: 190 mg/m <sup>3</sup> - 50 ppm; Short Term: 380 mg/m <sup>3</sup> - 100 ppm<br>15(Miw), 4x, MAK, d, H<br>Source: BGBl. II Nr. 156/2021                                                                                        |
| NATIONAL | BULGARIA    | Long Term: 192 mg/m <sup>3</sup> - 50 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>Кожа<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.                                                                                            |
| NATIONAL | CZECHIA     | Long Term: 192 mg/m <sup>3</sup> ; Short Term: Ceiling - 384 mg/m <sup>3</sup><br>B, D, I<br>Source: Nařízení vlády č. 361-2007 Sb                                                                                                       |
| NATIONAL | DENMARK     | Long Term: 94 mg/m <sup>3</sup> - 25 ppm<br>EH<br>Source: BEK nr 2203 af 29/11/2021                                                                                                                                                      |
| NATIONAL | ESTONIA     | Long Term: 192 mg/m <sup>3</sup> - 50 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>A<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105                                                                             |
| NATIONAL | FINLAND     | Long Term: 81 mg/m <sup>3</sup> - 25 ppm; Short Term: 380 mg/m <sup>3</sup> - 100 ppm<br>iho, melu<br>Source: HTP-ARVOT 2020                                                                                                             |
| NATIONAL | FRANCE      | Long Term: 76.8 mg/m <sup>3</sup> - 20 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>Toxique pour la reproduction de catégorie 2, Risque de pénétration percutanée<br>Source: INRS outil65, article R. 4412-149 du Code du travail |
| NATIONAL | HUNGARY     | Long Term: 190 mg/m <sup>3</sup> ; Short Term: 380 mg/m <sup>3</sup><br>b, i, BEM, EU2, R+T<br>Source: 5/2020. (II. 6.) ITM rendelet                                                                                                     |
| NATIONAL | LITHUANIA   | Long Term: 192 mg/m <sup>3</sup> - 50 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>R O<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389                                                                                           |
| NATIONAL | NETHERLANDS | Long Term: 150 mg/m <sup>3</sup> ; Short Term: 384 mg/m <sup>3</sup><br>Source: Arbeidsomstandighedenregeling - Lijst A                                                                                                                  |
| NATIONAL | NORWAY      | Long Term: 94 mg/m <sup>3</sup> - 25 ppm<br>H E<br>Source: FOR-2021-06-28-2248                                                                                                                                                           |
| NATIONAL | POLAND      | Long Term: 100 mg/m <sup>3</sup> ; Short Term: 200 mg/m <sup>3</sup><br>skóra<br>Source: Dz.U. 2018 poz. 1286                                                                                                                            |

|          |                                                      |                                                                                                                                                                                                        |
|----------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NATIONAL | SLOVAKIA                                             | Long Term: 192 mg/m <sup>3</sup> - 50 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>K, 7)<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006                                                        |
| NATIONAL | SWEDEN                                               | Long Term: 192 mg/m <sup>3</sup> - 50 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>B, H<br>Source: AFS 2021:3                                                                                   |
| SUVA     | SWITZERLAND                                          | Long Term: 190 mg/m <sup>3</sup> - 50 ppm; Short Term: 760 mg/m <sup>3</sup> - 200 ppm<br>R/H, R2D, R2F, SSC, OB, B, Vue SNC / Sehen ZNS, INRS HSE NIOSH DFG<br>Source: suva.ch/valeurs-limites        |
| WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 191 mg/m <sup>3</sup> - 50 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>Sk<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                      |
| NATIONAL | BELGIUM                                              | Long Term: 77 mg/m <sup>3</sup> - 20 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>D<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1                                 |
| NATIONAL | CROATIA                                              | Long Term: 192 mg/m <sup>3</sup> - 50 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>koža<br>Source: 2006/15/EZ                                                                                   |
| NATIONAL | CYPRUS                                               | Long Term: 192 mg/m <sup>3</sup> - 50 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>δέρμα<br>Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021 |
| NATIONAL | GERMANY                                              | Long Term: 190 mg/m <sup>3</sup> - 50 ppm<br>DFG, EU, H, Y, 2 (II)<br>Source: TRGS 900                                                                                                                 |
| NATIONAL | GREECE                                               | Long Term: 192 mg/m <sup>3</sup> - 50 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>Δ<br>Source: ΦΕΚ 202/A` 23.8.2007                                                                            |
| NATIONAL | IRELAND                                              | Long Term: 192 mg/m <sup>3</sup> - 50 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>Sk, IOELV<br>Source: 2021 Code of Practice                                                                   |
| NATIONAL | ITALY                                                | Long Term: 192 mg/m <sup>3</sup> - 50 ppm<br>Cute<br>Source: D.lgs. 81/2008, Allegato XXXVIII                                                                                                          |
| NATIONAL | LATVIA                                               | Long Term: 50 mg/m <sup>3</sup> - 14 ppm; Short Term: 150 mg/m <sup>3</sup> - 40 ppm<br>Āda; Ietekme uz dzirdi<br>Source: KN325P1                                                                      |
| NATIONAL | LUXEMBOURG                                           | Long Term: 192 mg/m <sup>3</sup> - 50 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>Peau<br>Source: Mémorial A n.226 du 22 mars 2021                                                             |
| NATIONAL | MALTA                                                | Long Term: 192 mg/m <sup>3</sup> - 50 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>skin<br>Source: S.L.424.24                                                                                   |
| NATIONAL | PORTUGAL                                             | Long Term: 192 mg/m <sup>3</sup> - 50 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>Cutânea<br>Source: Decreto-Lei n.º 1/2021                                                                    |
| NATIONAL | ROMANIA                                              | Long Term: 192 mg/m <sup>3</sup> - 50 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>P, R2, Dir. 2006/15<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021                                    |
| NATIONAL | SLOVENIA                                             | Long Term: 192 mg/m <sup>3</sup> - 50 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>K, Y, BAT, EU2, RD2<br>Source: UL št. 72, 11. 5. 2021                                                        |
| NATIONAL | SPAIN                                                | Long Term: 192 mg/m <sup>3</sup> - 50 ppm; Short Term: 384 mg/m <sup>3</sup> - 100 ppm<br>vía dérmica, VLB®, VLI, r<br>Source: LEP 2022                                                                |

#### Biological limit values

xylene  
CAS: 1330-20-7

Biological Indicator: Methyl hippuric acid in urine; Sampling Period: End of turn  
Value: 2000 mg/L; Medium: Urine

|                          |                                                                                                                                                                          |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| methanol<br>CAS: 67-56-1 | Biological Indicator: Methyl alcohol; Sampling Period: End of turn; End of working week<br>Value: 30 mg/L; Medium: Urine                                                 |
| toluene<br>CAS: 108-88-3 | Biological Indicator: Toluene in blood; Sampling Period: End of turn<br>Value: 600 µg/L; Medium: Blood                                                                   |
|                          | Biological Indicator: Hippuric acid in urine; Sampling Period: End of turn; End of working week<br>Value: 2 g/g; Medium: Urine<br>Remark: Not Specific; Semiquantitative |
|                          | Biological Indicator: o-Cresol in urine; Sampling Period: End of turn; End of working week<br>Value: 0.5 mg/L; Medium: Urine<br>Remark: Not Quantitative; Not Specific   |

#### Predicted No Effect Concentration (PNEC) values

|                                                     |                                                                             |
|-----------------------------------------------------|-----------------------------------------------------------------------------|
| xylene<br>CAS: 1330-20-7                            | Exposure Route: Fresh Water; PNEC Limit: 327 µg/l                           |
|                                                     | Exposure Route: Intermittent releases (fresh water); PNEC Limit: 327 µg/l   |
|                                                     | Exposure Route: Marine water; PNEC Limit: 327 µg/l                          |
|                                                     | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 6.58 mg/l  |
|                                                     | Exposure Route: Freshwater sediments; PNEC Limit: 12.46 mg/kg               |
|                                                     | Exposure Route: Marine water sediments; PNEC Limit: 12.46 mg/kg             |
|                                                     | Exposure Route: Soil; PNEC Limit: 2.31 mg/kg                                |
| tetraethyl silicate; ethyl silicate<br>CAS: 78-10-4 | Exposure Route: Fresh Water; PNEC Limit: 190 µg/l                           |
|                                                     | Exposure Route: Intermittent releases (fresh water); PNEC Limit: 10 mg/l    |
|                                                     | Exposure Route: Marine water; PNEC Limit: 19 µg/l                           |
|                                                     | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 4000 mg/l  |
|                                                     | Exposure Route: Freshwater sediments; PNEC Limit: 830 µg/kg                 |
|                                                     | Exposure Route: Marine water sediments; PNEC Limit: 83 µg/kg                |
|                                                     | Exposure Route: Soil; PNEC Limit: 50 µg/kg                                  |
| methanol<br>CAS: 67-56-1                            | Exposure Route: Fresh Water; PNEC Limit: 20.8 mg/l                          |
|                                                     | Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1540 mg/l  |
|                                                     | Exposure Route: Marine water; PNEC Limit: 2.08 mg/l                         |
|                                                     | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l   |
|                                                     | Exposure Route: Freshwater sediments; PNEC Limit: 77 mg/kg                  |
|                                                     | Exposure Route: Marine water sediments; PNEC Limit: 7.7 mg/kg               |
|                                                     | Exposure Route: Soil; PNEC Limit: 100 mg/kg                                 |
| ethylbenzene<br>CAS: 100-41-4                       | Exposure Route: Fresh Water; PNEC Limit: 100 µg/l                           |
|                                                     | Exposure Route: Intermittent releases (fresh water); PNEC Limit: 100 µg/l   |
|                                                     | Exposure Route: Marine water; PNEC Limit: 55 µg/l                           |
|                                                     | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 9.6 mg/l   |
|                                                     | Exposure Route: Freshwater sediments; PNEC Limit: 13.7 mg/kg                |
|                                                     | Exposure Route: Marine water sediments; PNEC Limit: 1.37 mg/kg              |
|                                                     | Exposure Route: Soil; PNEC Limit: 2.68 mg/kg                                |
|                                                     | Exposure Route: Secondary poisoning; PNEC Limit: 20 mg/kg                   |
| toluene<br>CAS: 108-88-3                            | Exposure Route: Fresh Water; PNEC Limit: 680 µg/l                           |
|                                                     | Exposure Route: Intermittent releases (fresh water); PNEC Limit: 680 µg/l   |
|                                                     | Exposure Route: Marine water; PNEC Limit: 680 µg/l                          |
|                                                     | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 13.61 µg/l |
|                                                     | Exposure Route: Freshwater sediments; PNEC Limit: 16.39 mg/kg               |
|                                                     | Exposure Route: Marine water sediments; PNEC Limit: 16.39 mg/kg             |
|                                                     | Exposure Route: Soil; PNEC Limit: 2.89 mg/kg                                |

#### Derived No Effect Level (DNEL) values

xylene  
CAS: 1330-20-7

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 221 mg/m<sup>3</sup>; Consumer: 65.3 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Professional: 442 mg/m<sup>3</sup>; Consumer: 260 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Worker Professional: 221 mg/m<sup>3</sup>; Consumer: 65.3 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Professional: 442 mg/m<sup>3</sup>; Consumer: 260 mg/m<sup>3</sup>

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 212 mg/kg; Consumer: 125 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 12.5 mg/kg

tetraethyl silicate; ethyl silicate  
CAS: 78-10-4

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Consumer: 14 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Consumer: 14 mg/m<sup>3</sup>

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 56 mg/kg; Consumer: 3 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects  
Worker Professional: 56 mg/kg; Consumer: 3 mg/kg

methanol  
CAS: 67-56-1

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 130 mg/m<sup>3</sup>; Consumer: 26 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Professional: 130 mg/m<sup>3</sup>; Consumer: 26 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Worker Professional: 130 mg/m<sup>3</sup>; Consumer: 26 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Professional: 130 mg/m<sup>3</sup>; Consumer: 26 mg/m<sup>3</sup>

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 20 mg/kg; Consumer: 4 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects  
Worker Professional: 20 mg/kg; Consumer: 4 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 4 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects  
Consumer: 4 mg/kg

ethylbenzene  
CAS: 100-41-4

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 77 mg/m<sup>3</sup>; Consumer: 15 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Professional: 293 mg/m<sup>3</sup>

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 180 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 1.6 mg/kg

toluene  
CAS: 108-88-3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 192 mg/m<sup>3</sup>; Consumer: 56.5 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Professional: 384 mg/m<sup>3</sup>; Consumer: 226 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Worker Professional: 192 mg/m<sup>3</sup>; Consumer: 56.5 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Professional: 384 mg/m<sup>3</sup>; Consumer: 226 mg/m<sup>3</sup>

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 384 mg/kg; Consumer: 226 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 8.13 mg/kg

## 8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Gas filter type AX .

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

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## SECTION 9: Physical and chemical properties

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

Physical state: Liquid

Colour: In compliance with the product description

Odour: Characteristic

Odour threshold: N.A.

pH: Not Relevant

Kinematic viscosity:  $\leq 20,5 \text{ mm}^2/\text{sec}$  (40 °C)

Melting point/freezing point: N.A.

Boiling point or initial boiling point and boiling range:  $> 36 \text{ °C}$  (97 °F)

Flash point: 23°C / 60°C

Lower and upper explosion limit: N.A.

Relative vapour density: N.A.

Vapour pressure: N.A.

Density and/or relative density: 0.79 g/cm<sup>3</sup>

Solubility in water: Miscible

Solubility in oil: N.A.

Partition coefficient n-octanol/water (log value): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Flammability: The product is classified Flam. Liq. 3 H226

Volatile Organic compounds - VOCs = 93.4 % ; 737.86 g/l

#### Particle characteristics:

Particle size: N.A.

### 9.2. Other information

No other relevant information

---

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Data not available.

### 10.3. Possibility of hazardous reactions

None.

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### 10.6. Hazardous decomposition products

None.

---

## SECTION 11: Toxicological information

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

### Toxicological Information of the Preparation

|                                      |                                                                  |
|--------------------------------------|------------------------------------------------------------------|
| a) acute toxicity                    | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| b) skin corrosion/irritation         | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| c) serious eye damage/irritation     | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| d) respiratory or skin sensitisation | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| e) germ cell mutagenicity            | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| f) carcinogenicity                   | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| g) reproductive toxicity             | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| h) STOT-single exposure              | The product is classified: STOT SE 3(H336)                       |
| i) STOT-repeated exposure            | Not classified                                                   |
|                                      | Based on available data, the classification criteria are not met |
| j) aspiration hazard                 | The product is classified: Asp. Tox. 1(H304)                     |

### Toxicological information on main components of the mixture:

|                                                                            |                                      |                                                                |                          |
|----------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------|--------------------------|
| Hydrocarbons, C9-C11, n-<br>alkanes, isoalkanes,<br>cyclics, <2% aromatics | a) acute toxicity                    | LD50 Oral Rat > 5000 mg/kg                                     |                          |
|                                                                            |                                      | LC50 Inhalation Vapour Rat > 5000 mg/m <sup>3</sup> 8h         |                          |
|                                                                            |                                      | LD50 Skin Rabbit > 2000 mg/kg 24h                              |                          |
|                                                                            | b) skin corrosion/irritation         | Skin Irritant Rabbit Negative 4h                               |                          |
|                                                                            | c) serious eye damage/irritation     | Eye Irritant Rabbit No                                         |                          |
|                                                                            | d) respiratory or skin sensitisation | Skin Sensitization Guinea pig Negative                         |                          |
|                                                                            | f) carcinogenicity                   | Genotoxicity Rat Negative                                      | Inhalation route         |
|                                                                            |                                      | Carcinogenicity Inhalation Rat Positive                        |                          |
|                                                                            | g) reproductive toxicity             | No Observed Adverse Effect Level Rat > 20000 mg/m <sup>3</sup> |                          |
|                                                                            |                                      |                                                                |                          |
| xylene                                                                     | a) acute toxicity                    | LD50 Oral Rat = 3523 ml/Kg                                     |                          |
|                                                                            |                                      | LC50 Inhalation Vapour Rat = 29000 mg/m <sup>3</sup> 4h        |                          |
|                                                                            |                                      | LD50 Skin Rabbit = 12126 mg/kg 24h                             |                          |
|                                                                            | b) skin corrosion/irritation         | Skin Corrosive Rabbit Negative 4h                              |                          |
|                                                                            | c) serious eye damage/irritation     | Eye Irritant Rabbit Yes 1h                                     |                          |
|                                                                            | f) carcinogenicity                   | Genotoxicity Negative                                          | Mouse subcutaneous route |
|                                                                            | g) reproductive toxicity             | No Observed Adverse Effect Level Inhalation Rat = 2171 mg/kg   |                          |
| tetraethyl silicate; ethyl silicate                                        | a) acute toxicity                    | LD50 Oral Rat > 2500 mg/kg                                     |                          |
|                                                                            |                                      | LC50 Inhalation of aerosol Rat = 10 mg/l 4h                    |                          |
|                                                                            |                                      | LD50 Skin Rabbit = 6.3 mg/kg 24h                               |                          |
|                                                                            | b) skin corrosion/irritation         | Skin Irritant Rabbit Negative 4h                               |                          |
|                                                                            | c) serious eye damage/irritation     | Eye Irritant Rabbit No                                         |                          |
|                                                                            | d) respiratory or skin               | Skin Sensitization Guinea pig Negative                         |                          |
|                                                                            |                                      |                                                                |                          |

|              |                                      |                                                                                                                |                             |
|--------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------|
|              | sensitisation                        |                                                                                                                |                             |
|              | g) reproductive toxicity             | No Observed Adverse Effect Level Oral = 12.5 mg/kg                                                             | Mouse                       |
| methanol     | a) acute toxicity                    | LD50 Oral Rat >= 2528 mg/kg<br>LC50 Inhalation = 43.68 mg/l 6h<br>LD50 Skin Rabbit = 17100 mg/kg               | Cat                         |
|              | b) skin corrosion/irritation         | Skin Irritant Rabbit Negative                                                                                  |                             |
|              | c) serious eye damage/irritation     | Eye Irritant Rabbit No                                                                                         |                             |
|              | d) respiratory or skin sensitisation | Skin Sensitization Guineapig Negative                                                                          |                             |
|              | f) carcinogenicity                   | Genotoxicity Negative<br>Carcinogenicity Rat Negative                                                          | Mouse intraperitoneal route |
|              | g) reproductive toxicity             | Lowest Observed Adverse Effect Level Oral = 1000 mg/kg                                                         | Mouse                       |
| ethylbenzene | a) acute toxicity                    | LD50 Oral Rat = 3500 mg/kg<br>LC50 Inhalation Mouse = 1432 Ppm<br>LD50 Skin Rabbit = 17.8 ml/Kg                |                             |
|              | b) skin corrosion/irritation         | Skin Irritant Rabbit Positive 24h                                                                              |                             |
|              | c) serious eye damage/irritation     | Eye Irritant Rabbit Yes                                                                                        |                             |
|              | f) carcinogenicity                   | Genotoxicity Negative 24h                                                                                      | Mouse oral route            |
|              | g) reproductive toxicity             | No Observed Adverse Effect Level Inhalation Rat = 100                                                          | ppm                         |
| toluene      | a) acute toxicity                    | LD50 Oral Rat = 5580 mg/kg<br>LC50 Inhalation of aerosol Rat > 20 mg/l 4h<br>LD50 Skin Rabbit > 5000 mg/kg 24h |                             |
|              | b) skin corrosion/irritation         | Skin Irritant Rabbit Positive 4h                                                                               |                             |
|              | c) serious eye damage/irritation     | Eye Irritant Rabbit Yes                                                                                        |                             |
|              | d) respiratory or skin sensitisation | Skin Sensitization Guineapig Negative                                                                          |                             |
|              | f) carcinogenicity                   | Genotoxicity Rat Negative                                                                                      | Intraperitoneal route       |
|              | g) reproductive toxicity             | No Observed Adverse Effect Level Inhalation Rat = 2261 mg/m3                                                   |                             |

## 11.2. Information on other hazards

### Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

#### List of Eco-Toxicological properties of the components

| Component                                                           | Ident. Numb.      | Ecotox Data                                                             |
|---------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------|
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | EINECS: 919-857-5 | a) Aquatic acute toxicity : LL50 Fish Oncorhynchus mykiss = 10 mg/L 96h |

|                                     |                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     |                                                             | a) Aquatic acute toxicity : EL50 Daphnia Daphnia magna = 4.5 mg/L 48h<br>b) Aquatic chronic toxicity : NOELR Daphnia Daphnia magna = 2.6 mg/L - 21days<br><br>a) Aquatic acute toxicity : NOELR Algae Pseudokirchnerella subcapitata = 0.5 mg/L 72h                                                                                                                                                                                                                                                                                                                                                                                                 |
| xylene                              | CAS: 1330-20-7<br>- EINECS: 215-535-7 - INDEX: 601-022-00-9 | a) Aquatic acute toxicity : LC50 Fish freshwater fish = 2.6 mg/L 96h OECD 203<br><br>b) Aquatic chronic toxicity : NOEC Fish freshwater fish = 1.3 mg/L - 56days<br>a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 1 mg/L 24h OECD 202<br><br>b) Aquatic chronic toxicity : NOEC Daphnia Ceriodaphnia dubia = 0.96 mg/L - 7days<br><br>a) Aquatic acute toxicity : EC50 Algae freshwater algae = 1.3 mg/L 48h OECD 201<br><br>a) Aquatic acute toxicity : EC50 microorganisms = 96 mg/L OECD 301F<br>d) Terrestrial toxicity : NOEC Worm earthworms = 16 mg/kg - 14days<br>e) Plant toxicity : LC50 terrestrial plants = 1 mg/kg - 14days |
| tetraethyl silicate; ethyl silicate | CAS: 78-10-4 -<br>EINECS: 201-083-8 - INDEX: 014-005-00-0   | a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio > 245 mg/L 96h<br><br>a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna > 75 mg/L 48h<br>a) Aquatic acute toxicity : EC50 Algae Pseudokirchnerella subcapitata > 22 mg/L 72h<br><br>a) Aquatic acute toxicity : EC50 Sludge activated sludge > 100 mg/L 3h OECD 209                                                                                                                                                                                                                                                                                                                    |
| methanol                            | CAS: 67-56-1 -<br>EINECS: 200-659-6 - INDEX: 603-001-00-X   | a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 15400 mg/L 96h<br><br>b) Aquatic chronic toxicity : NOEC Fish = 450 mg/L<br>a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 22200 mg/L 48h<br>b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna = 208 mg/L<br>a) Aquatic acute toxicity : EC50 Algae Selenastrum capricornutum = 22000 mg/L 96h OECD 201 Guideline.<br><br>d) Terrestrial toxicity : NOEC Worm Eisenia andrei = 10000 mg/kg<br>d) Terrestrial toxicity : NOEC Folsomia candida = 1000 mg/kg OECD Guideline 232                                                                                          |
| ethylbenzene                        | CAS: 100-41-4 -<br>EINECS: 202-849-4 - INDEX: 601-023-00-4  | a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 4.2 mg/L 96h<br><br>a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 1.8 mg/L 48h<br>b) Aquatic chronic toxicity : NOEC Daphnia Ceriodaphnia dubia = 1 mg/L - 7days<br><br>a) Aquatic acute toxicity : EC50 Algae Selenastrum capricornutum = 3.6 mg/L 96h<br><br>c) Bacteria toxicity : EC50 > 96 mg/L 24h<br>d) Terrestrial toxicity : LC50 Worm Eisenia fetida = 4.93 µg/L 48h OECD TG 207                                                                                                                                                                                   |
| toluene                             | CAS: 108-88-3 -<br>EINECS: 203-625-9 - INDEX: 601-021-00-3  | a) Aquatic acute toxicity : LC50 Fish Coho Salmon = 5.5 mg/L 96h<br><br>b) Aquatic chronic toxicity : NOEC Fish Coho Salmon = 1.4 mg/L - 40days                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

- a) Aquatic acute toxicity : LC50 freshwater invertebrates = 3.78 mg/L 48h  
 b) Aquatic chronic toxicity : NOEC freshwater invertebrates = 0.74 mg/L - 7days  
 a) Aquatic acute toxicity : EC50 Algae freshwater algae = 134 mg/L 3h  
 a) Aquatic acute toxicity : NOEC Algae freshwater algae = 10 mg/L 72h  
 c) Bacteria toxicity : EC50 microorganisms = 84 mg/L 24h  
 d) Terrestrial toxicity : NOEC Worm Eisenia fetida = 32.5 mg/kg - 28days

## 12.2. Persistence and degradability

| Component                           | Persitence/Degradability:    | Test                     | Value  | Notes: |
|-------------------------------------|------------------------------|--------------------------|--------|--------|
| xylene                              | Readily biodegradable        |                          |        |        |
| tetraethyl silicate; ethyl silicate | Persistent and Biodegradable | Dissolved organic carbon | 98.000 | 28days |
| methanol                            | Readily biodegradable        |                          |        |        |
| ethylbenzene                        | Readily biodegradable        | CO2 production           |        |        |
| toluene                             | Readily biodegradable        |                          |        |        |

## 12.3. Bioaccumulative potential

| Component    | Bioaccumulation     | Test                          | Value           | Notes: |
|--------------|---------------------|-------------------------------|-----------------|--------|
| xylene       | Bioaccumulative     | BCF - Bioconcentration factor | 25.900          |        |
| methanol     | Not bioaccumulative | BCF - Bioconcentration factor | < 10            |        |
| ethylbenzene | Bioaccumulative     | BCF - Bioconcentration factor | 110.000 L/kg ww |        |
| toluene      | Bioaccumulative     | BCF - Bioconcentration factor | 90.000          | 3days  |

## 12.4. Mobility in soil

N.A.

## 12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration  $\geq 0.1\%$

## 12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

## 12.7. Other adverse effects

N.A.

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

A waste code according to the European List of Wastes (LoW) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

The product disposed of as such, pursuant to Regulation (EU) 1357/2014, must be classified as hazardous waste

# SECTION 14: Transport information

## 14.1. UN number or ID number

1263

## 14.2. UN proper shipping name

ADR-Shipping Name: PAINT RELATED MATERIAL  
 IATA-Technical name: PAINT RELATED MATERIAL  
 IMDG-Technical name: PAINT RELATED MATERIAL

## 14.3. Transport hazard class(es)

ADR-Class: 3  
 IATA-Class: 3  
 IMDG-Class: 3

## 14.4. Packing group

ADR-Packing Group: III  
 IATA-Packing group: III

IMDG-Packing group: III

#### **14.5. Environmental hazards**

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-E, S-E

#### **14.6. Special precautions for user**

Road and Rail (ADR-RID):

ADR-Label: 3

ADR - Hazard identification number: -

ADR-Special Provisions: 163 367 650

ADR-Transport category (Tunnel restriction code): 3 (E)

ADR Limited Quantities: 5 L

ADR Excepted Quantities: E1

Air (IATA):

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 223 367 955

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

N.A.

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### **SECTION 15: Regulatory information**

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 48, 69, 75

Provisions related to directive EU 2012/18 (Seveso III):

**Seveso III category according to Annex 1, part 1**

Product belongs to category: P5c 5000

50000

**Explosives precursors – Regulation 2019/1148**

No substances listed

**Regulation (EU) No 649/2012 (PIC regulation)**

No substances listed

**German Water Hazard Class.**

1: Low hazard to waters

**German Lagerklasse according to TRGS 510:**

LGK 3

SVHC Substances:

No SVHC substances present in concentration  $\geq 0.1\%$

**Dir. 2004/42/EC (VOC directive)**

(ready to use)

Volatile Organic compounds - VOCs = 93.40 %

Volatile Organic compounds - VOCs = 737.86 g/L

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for the mixture.

---

**SECTION 16: Other information**

| Code   | Description                                                        |
|--------|--------------------------------------------------------------------|
| EUH066 | Repeated exposure may cause skin dryness or cracking.              |
| H225   | Highly flammable liquid and vapour.                                |
| H226   | Flammable liquid and vapour.                                       |
| H301   | Toxic if swallowed.                                                |
| H304   | May be fatal if swallowed and enters airways.                      |
| H311   | Toxic in contact with skin.                                        |
| 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.                                 |
| H361d  | Suspected of damaging the unborn child.                            |
| H370   | Causes damage to organs.                                           |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| H412   | Harmful to aquatic life with long lasting effects.                 |

| Code         | Hazard class and hazard category | Description                                                    |
|--------------|----------------------------------|----------------------------------------------------------------|
| 2.6/2        | Flam. Liq. 2                     | Flammable liquid, Category 2                                   |
| 2.6/3        | Flam. Liq. 3                     | Flammable liquid, Category 3                                   |
| 3.1/3/Dermal | Acute Tox. 3                     | Acute toxicity (dermal), Category 3                            |
| 3.1/3/Inhal  | Acute Tox. 3                     | Acute toxicity (inhalation), Category 3                        |
| 3.1/3/Oral   | Acute Tox. 3                     | Acute toxicity (oral), Category 3                              |
| 3.1/4/Dermal | Acute Tox. 4                     | Acute toxicity (dermal), Category 4                            |
| 3.1/4/Inhal  | Acute Tox. 4                     | Acute toxicity (inhalation), Category 4                        |
| 3.10/1       | Asp. Tox. 1                      | Aspiration hazard, Category 1                                  |
| 3.2/2        | Skin Irrit. 2                    | Skin irritation, Category 2                                    |
| 3.3/2        | Eye Irrit. 2                     | Eye irritation, Category 2                                     |
| 3.7/2        | Repr. 2                          | Reproductive toxicity, Category 2                              |
| 3.8/1        | STOT SE 1                        | Specific target organ toxicity — single exposure, Category 1   |
| 3.8/3        | STOT SE 3                        | Specific target organ toxicity — single exposure, Category 3   |
| 3.9/2        | STOT RE 2                        | Specific target organ toxicity — repeated exposure, Category 2 |

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

**Classification according to Regulation (EC) Nr. 1272/2008      Classification procedure**

|                    |                       |
|--------------------|-----------------------|
| Flam. Liq. 3, H226 | On basis of test data |
| STOT SE 3, H336    | Calculation method    |
| Asp. Tox. 1, H304  | Calculation method    |

This document was prepared by a competent person who has received appropriate training.

**Main bibliographic sources:**

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: Keep Away From Heat

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.