

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

#### 1.1. Product identifier

|                               |                 |
|-------------------------------|-----------------|
| Product form                  | : Mixture       |
| Trade name                    | : SG815 Part A  |
| Product code                  | : SG815A        |
| Type of product               | : adhesives     |
| Product group                 | : Trade product |
| Other means of identification | : SG800 Part A  |

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

##### 1.2.1. Relevant identified uses

|                                  |                             |
|----------------------------------|-----------------------------|
| Main use category                | : Industrial use            |
| Industrial/Professional use spec | : Industrial                |
| Use of the substance/mixture     | : Adhesives, binding agents |
| Function or use category         | : Adhesives, binding agents |

##### 1.2.2. Uses advised against

No additional information available

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

##### Manufacturer

IPS Adhesives Ltd (UK & Europe)  
New York Way  
NE27 0QF Newcastle upon Tyne – Tyne & Wear  
United Kingdom  
T +44 (0)191 4196444 - F +44 (0)191 4196444

#### 1.4. Emergency telephone number

|                  |                                                                   |
|------------------|-------------------------------------------------------------------|
| Emergency number | : 001- 813-248-0585 (International)<br>VelocityEHS: 24 hrs/7 days |
|------------------|-------------------------------------------------------------------|

### SECTION 2: Hazards identification

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

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

|                                                                                            |      |
|--------------------------------------------------------------------------------------------|------|
| Flammable liquids, Category 2                                                              | H225 |
| Skin corrosion/irritation, Category 1, Sub-Category 1A                                     | H314 |
| Serious eye damage/eye irritation, Category 1                                              | H318 |
| Skin sensitisation, Category 1                                                             | H317 |
| Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation | H335 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 3                          | H412 |
| Full text of H- and EUH-statements: see section 16                                         |      |

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP)



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|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal word (CLP)              | : Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Contains                       | : METHYL METHACRYLATE; 2-METHYLPROPENOIC ACID; 2-HYDROXYETHYL METHACRYLATE; BIS(METHACRYLOYLOXYETHYL) HYDROGEN PHOSPHATE; ROSIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Hazard statements (CLP)        | : H225 - Highly flammable liquid and vapour.<br>H314 - Causes severe skin burns and eye damage.<br>H317 - May cause an allergic skin reaction.<br>H335 - May cause respiratory irritation.<br>H412 - Harmful to aquatic life with long lasting effects.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Precautionary statements (CLP) | : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P261 - Avoid breathing vapours.<br>P264 - Wash hands, forearms and face thoroughly after handling.<br>P273 - Avoid release to the environment.<br>P280 - Wear protective clothing, eye protection, face protection.<br>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. |
| EUH-statements                 | : EUH210 - Safety data sheet available on request.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### 2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                                                       | Product identifier                                                    | %                | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                               |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------|
| METHYL METHACRYLATE<br>substance with a Community workplace exposure limit | CAS-No.: 80-62-6<br>EC-No.: 201-297-1<br>EC Index-No.: 607-035-00-6   | $\geq 20 - < 50$ | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>Aquatic Chronic 3, H412 |
| 2-METHYLPROPENOIC ACID                                                     | CAS-No.: 79-41-4<br>EC-No.: 201-204-4<br>EC Index-No.: 607-088-00-5   | $\geq 10 - < 20$ | Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Oral), H302<br>Skin Corr. 1A, H314                               |
| PROPYLIDYNETRIMETHANOL, ETHOXYLATED,<br>ESTER WITH ACRYLIC ACID            | CAS-No.: 28961-43-5<br>EC-No.: 500-066-5<br>REACH-no: 01-211948900-30 | $< 2$            | Aquatic Chronic 2, H411                                                                                       |
| BIS(METHACRYLOYLOXYETHYL) HYDROGEN<br>PHOSPHATE                            | CAS-No.: 32435-46-4<br>EC-No.: 251-040-2                              | $< 2$            | Eye Dam. 1, H318<br>Skin Sens. 1B, H317                                                                       |

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| Name                        | Product identifier                                                                                 | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                                                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N,N-DIMETHYL-P-TOLUIDINE    | CAS-No.: 99-97-8<br>EC-No.: 202-805-4<br>EC Index-No.: 612-056-00-9                                | < 1 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation), H331<br>STOT RE 1, H372<br>Aquatic Chronic 2, H411                                                                                                                              |
| ROSIN                       | CAS-No.: 8050-09-7<br>EC-No.: 232-475-7<br>EC Index-No.: 650-015-00-7                              | < 1 | Skin Sens. 1, H317<br>Aquatic Chronic 2, H411                                                                                                                                                                                                                          |
| 2-HYDROXYETHYL METHACRYLATE | CAS-No.: 868-77-9<br>EC-No.: 212-782-2<br>EC Index-No.: 607-124-00-X<br>REACH-no: 01-2119490169-29 | < 1 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317                                                                                                                                                                                                        |
| 1,4-NAPHTHOQUINONE          | CAS-No.: 130-15-4<br>EC-No.: 204-977-6                                                             | < 1 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 1 (Inhalation), H330<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>STOT RE 1, H372<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10) |

| Specific concentration limits: |                                                                     |                                |
|--------------------------------|---------------------------------------------------------------------|--------------------------------|
| Name                           | Product identifier                                                  | Specific concentration limits  |
| 2-METHYLPROPENOIC ACID         | CAS-No.: 79-41-4<br>EC-No.: 201-204-4<br>EC Index-No.: 607-088-00-5 | ( 1 ≤ C ≤ 100) STOT SE 3, H335 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : Get medical advice/attention if you feel unwell.                                                                                                                             |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.                                                                                 |
| First-aid measures after skin contact | : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact  | : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If eye irritation persists: Get medical advice/attention.                      |
| First-aid measures after ingestion    | : Rinse mouth out with water. Get medical advice/attention.                                                                                                                    |

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

|                                     |                                                                                                                                                                      |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Inhalation may cause irritation (cough, short breathing, difficulty in breathing). May cause shortness of breath, tightness of the chest, a sore throat and cough. |
| Symptoms/effects after skin contact | : irritation (itching, redness, blistering).                                                                                                                         |
| Symptoms/effects after eye contact  | : redness, itching, tears.                                                                                                                                           |
| Symptoms/effects after ingestion    | : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.                                                                               |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- |                                |                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------|
| Suitable extinguishing media   | : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO <sub>2</sub> ). |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                                                |

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

- |                                                  |                                                                 |
|--------------------------------------------------|-----------------------------------------------------------------|
| Fire hazard                                      | : Flammable liquid and vapour.                                  |
| Hazardous decomposition products in case of fire | : Carbon dioxide. Carbon monoxide. Toxic fumes may be released. |

### 5.3. Advice for firefighters

- |                                |                                                                                                                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary measures fire    | : Eliminate all ignition sources if safe to do so.                                                                                                                                                         |
| Firefighting instructions      | : Do not enter fire area without proper protective equipment, including respiratory protection.<br>Use water spray or fog for cooling exposed containers. Eliminate all ignition sources if safe to do so. |
| Protection during firefighting | : Use self-contained breathing apparatus and chemically protective clothing.                                                                                                                               |

## SECTION 6: Accidental release measures

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

- |                  |                                                                             |
|------------------|-----------------------------------------------------------------------------|
| General measures | : Do not handle until all safety precautions have been read and understood. |
|------------------|-----------------------------------------------------------------------------|

#### 6.1.1. For non-emergency personnel

- |                                  |                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment             | : Wear recommended personal protective equipment.                                                                                  |
| Emergency procedures             | : Keep upwind. Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene. |
| Measures in case of dust release | : Do not inhale dusts, particulates and spray mist when using this preparation.                                                    |

#### 6.1.2. For emergency responders

- |                      |                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------|
| Protective equipment | : Use self-contained breathing apparatus and chemically protective clothing.               |
| Emergency procedures | : Stop leak if safe to do so. Cover spill with non combustible material, e.g.: sand/earth. |

### 6.2. Environmental precautions

Do not allow to enter drains or water courses. Do not allow product to spread into the environment.

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

- |                         |                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth.                                                                                                                                     |
| Methods for cleaning up | : Clean up any spills as soon as possible, using an absorbent material to collect it. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                                                                                                   |

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- |                                   |                                                                                                                                                                      |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional hazards when processed | : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                                                     |
| Precautions for safe handling     | : Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. |
| Handling temperature              | : 13 – 27 °C                                                                                                                                                         |

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Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse.

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

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly closed.

Incompatible products : Oxidizing agent. Strong acids.

Incompatible materials : Sources of ignition.

Storage temperature : 13 – 27 °C

Storage area : Store in a well-ventilated place. Store away from heat.

Special rules on packaging : Keep only in original container.

Packaging materials : Keep only in the original container in a cool, well-ventilated place away from combustible materials.

### 7.3. Specific end use(s)

Adhesives, Sealants.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| METHYL METHACRYLATE (80-62-6)                      |                                                                                                                      |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) |                                                                                                                      |
| Local name                                         | Methyl methacrylate                                                                                                  |
| IOEL TWA [ppm]                                     | 50 ppm                                                                                                               |
| IOEL STEL [ppm]                                    | 100 ppm                                                                                                              |
| Regulatory reference                               | COMMISSION DIRECTIVE 2009/161/EU                                                                                     |
| Austria - Occupational Exposure Limits             |                                                                                                                      |
| MAK (OEL TWA)                                      | 210 mg/m <sup>3</sup>                                                                                                |
| MAK (OEL TWA) [ppm]                                | 50 ppm                                                                                                               |
| MAK (OEL STEL)                                     | 420 mg/m <sup>3</sup>                                                                                                |
| MAK (OEL STEL) [ppm]                               | 100 ppm                                                                                                              |
| Belgium - Occupational Exposure Limits             |                                                                                                                      |
| Local name                                         | Méthacrylate de méthyle # Methylmethacrylaat                                                                         |
| OEL TWA                                            | 208 mg/m <sup>3</sup>                                                                                                |
| OEL TWA [ppm]                                      | 50 ppm                                                                                                               |
| OEL STEL                                           | 416 mg/m <sup>3</sup>                                                                                                |
| OEL STEL [ppm]                                     | 100 ppm                                                                                                              |
| Regulatory reference                               | Koninklijk besluit/Arrêté royal 11/05/2021                                                                           |
| Bulgaria - Occupational Exposure Limits            |                                                                                                                      |
| Local name                                         | Метилметакрилат                                                                                                      |
| OEL TWA [ppm]                                      | 50 ppm                                                                                                               |
| OEL STEL [ppm]                                     | 100 ppm                                                                                                              |
| Remark                                             | • (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност) |

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| METHYL METHACRYLATE (80-62-6)                 |                                                                                                                                                                                   |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regulatory reference                          | Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.) |
| Croatia - Occupational Exposure Limits        |                                                                                                                                                                                   |
| Local name                                    | Metil-metakrilat; metil-2-metil-prop-2-enoat; metil-2-metil-propenoat                                                                                                             |
| GVI (OEL TWA) [2]                             | 50 ppm                                                                                                                                                                            |
| KGVI (OEL STEL) [ppm]                         | 100 ppm                                                                                                                                                                           |
| Remark                                        | Direktiva: 2009/161/EU. Napomena: Koža (razvrstana kao tvar koja nadražuje kožu (H315)), alergen koža (tvar koja može izazvati alergijsku reakciju na koži (H317))                |
| Regulatory reference                          | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)                      |
| Czech Republic - Occupational Exposure Limits |                                                                                                                                                                                   |
| Local name                                    | Methylmetakrylát (Methylester 2-methyl-2-propenové kyseliny)                                                                                                                      |
| PEL (OEL TWA)                                 | 50 mg/m <sup>3</sup>                                                                                                                                                              |
| PEL (OEL TWA) [ppm]                           | 12 ppm                                                                                                                                                                            |
| NPK-P (OEL C)                                 | 150 mg/m <sup>3</sup>                                                                                                                                                             |
| NPK-P (OEL C) [ppm]                           | 36 ppm                                                                                                                                                                            |
| Remark                                        | I - dráždívá sliznice (oči, dýchací cesty), respektive kůže, S - látka má senzibilizující účinek (s větou H317, H334).                                                            |
| Regulatory reference                          | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)                                                                                                                             |
| Denmark - Occupational Exposure Limits        |                                                                                                                                                                                   |
| Local name                                    | Methylmethacrylat (Methacrylsyremethylester; 2-Methylpropensyremethylester)                                                                                                       |
| OEL TWA [1]                                   | 102 mg/m <sup>3</sup>                                                                                                                                                             |
| OEL TWA [2]                                   | 25 ppm                                                                                                                                                                            |
| OEL STEL                                      | 100 mg/m <sup>3</sup>                                                                                                                                                             |
| Remark                                        | E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)                                                                                   |
| Regulatory reference                          | BEK nr 1054 af 28/06/2022                                                                                                                                                         |
| Estonia - Occupational Exposure Limits        |                                                                                                                                                                                   |
| Local name                                    | Metüülmetakrülaat (metüül-2-metüülpropenaat)                                                                                                                                      |
| OEL TWA [ppm]                                 | 50 ppm                                                                                                                                                                            |
| OEL STEL [ppm]                                | 100 ppm                                                                                                                                                                           |
| Remark                                        | S (Sensibiliseeriv aine)                                                                                                                                                          |
| Regulatory reference                          | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 15.05.2021, 1)                                                                                                       |
| Finland - Occupational Exposure Limits        |                                                                                                                                                                                   |
| Local name                                    | Metyylimetakrylaatti                                                                                                                                                              |
| HTP (OEL TWA) [1]                             | 42 mg/m <sup>3</sup>                                                                                                                                                              |
| HTP (OEL TWA) [2]                             | 10 ppm                                                                                                                                                                            |
| HTP (OEL STEL)                                | 210 mg/m <sup>3</sup>                                                                                                                                                             |
| HTP (OEL STEL) [ppm]                          | 50 ppm                                                                                                                                                                            |
| Regulatory reference                          | HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)                                                                                                                                   |

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### METHYL METHACRYLATE (80-62-6)

#### France - Occupational Exposure Limits

|                        |                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Local name             | Méthacrylate de méthyle                                                                                                                           |
| VME (OEL TWA)          | 205 mg/m <sup>3</sup>                                                                                                                             |
| VME (OEL TWA) [ppm]    | 50 ppm                                                                                                                                            |
| VLE (OEL C/STEL)       | 410 mg/m <sup>3</sup>                                                                                                                             |
| VLE (OEL C/STEL) [ppm] | 100 ppm                                                                                                                                           |
| Remark                 | Valeurs réglementaires contraignantes                                                                                                             |
| Regulatory reference   | Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849) |

#### Germany - Occupational Exposure Limits (TRGS 900)

|                                 |                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local name                      | Methyl-methacrylat                                                                                                                                                                                                                                                                                                                                                                           |
| AGW (OEL TWA) [1]               | 210 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                        |
| AGW (OEL TWA) [2]               | 50 ppm                                                                                                                                                                                                                                                                                                                                                                                       |
| Peak exposure limitation factor | 2(I)                                                                                                                                                                                                                                                                                                                                                                                         |
| Remark                          | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden |
| Regulatory reference            | TRGS900                                                                                                                                                                                                                                                                                                                                                                                      |

#### Gibraltar - Occupational Exposure Limits

|                      |                                                                                |
|----------------------|--------------------------------------------------------------------------------|
| Local name           | Methyl methacrylate                                                            |
| OEL TWA [ppm]        | 50 ppm                                                                         |
| OEL STEL [ppm]       | 100 ppm                                                                        |
| Regulatory reference | Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181) |

#### Greece - Occupational Exposure Limits

|                      |                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Local name           | Μεθακρυλικός μεθυλεοτέρας                                                                                                               |
| OEL TWA [ppm]        | 100 ppm                                                                                                                                 |
| OEL STEL [ppm]       | 200 ppm                                                                                                                                 |
| Regulatory reference | Π.Δ. 12/2012 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους |

#### Hungary - Occupational Exposure Limits

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local name           | METIL-METAKRILÁT                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| AK (OEL TWA)         | 208 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CK (OEL STEL)        | 415 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Remark               | b (Bőrön át is felszívódik), i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát), sz (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyénekben „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat); EU3 (2009/161 /EK irányelvben közölt érték); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok) |
| Regulatory reference | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről                                                                                                                                                                                                                                                                                                                                        |

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| METHYL METHACRYLATE (80-62-6)             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ireland - Occupational Exposure Limits    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                | Methyl methacrylate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| OEL TWA [2]                               | 50 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| OEL STEL [ppm]                            | 100 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Remark                                    | IOELV (Indicative Occupational Exposure Limit Values), Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE)) |
| Regulatory reference                      | Chemical Agents Code of Practice 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Italy - Occupational Exposure Limits      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                | Metacrilato di metile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| OEL TWA [ppm]                             | 50 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| OEL STEL [ppm]                            | 100 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Regulatory reference                      | Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Latvia - Occupational Exposure Limits     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                | Metilmetakrilāts (2-metilpropēnskābes metilesteris, metil-2-metilpropeonāts)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| OEL TWA                                   | 10 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Regulatory reference                      | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Lithuania - Occupational Exposure Limits  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                | Metilmetakrilatas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| IPRV (OEL TWA)                            | 208 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| IPRV (OEL TWA) [ppm]                      | 50 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| TPRV (OEL STEL)                           | 416 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TPRV (OEL STEL) [ppm]                     | 100 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Remark                                    | J (jautrinantis poveikis)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Regulatory reference                      | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Luxembourg - Occupational Exposure Limits |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                | Méthacrylate de méthyle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| OEL TWA [ppm]                             | 50 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| OEL STEL [ppm]                            | 100 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Regulatory reference                      | Mémorial A N° 226 de 2021 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Malta - Occupational Exposure Limits      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                | Methyl methacrylate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| OEL TWA [ppm]                             | 50 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| OEL STEL [ppm]                            | 100 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Regulatory reference                      | S.L.424.24 - Chemical Agents at Work Regulations (L.N.356 of 2021)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



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| METHYL METHACRYLATE (80-62-6)                     |                                                                                                                                                             |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Netherlands - Occupational Exposure Limits</b> |                                                                                                                                                             |
| Local name                                        | Methylmethacrylaat                                                                                                                                          |
| TGG-8u (OEL TWA)                                  | 205 mg/m <sup>3</sup>                                                                                                                                       |
| TGG-15min (OEL STEL)                              | 410 mg/m <sup>3</sup>                                                                                                                                       |
| Regulatory reference                              | Arbeidsomstandighedenregeling 2022                                                                                                                          |
| <b>Poland - Occupational Exposure Limits</b>      |                                                                                                                                                             |
| Local name                                        | Metakrylan metylu                                                                                                                                           |
| NDS (OEL TWA)                                     | 100 mg/m <sup>3</sup>                                                                                                                                       |
| NDSch (OEL STEL)                                  | 300 mg/m <sup>3</sup>                                                                                                                                       |
| Regulatory reference                              | Dz. U. 2018 poz. 1286                                                                                                                                       |
| <b>Portugal - Occupational Exposure Limits</b>    |                                                                                                                                                             |
| Local name                                        | Metacrilato de metilo                                                                                                                                       |
| OEL TWA [ppm]                                     | 50 ppm                                                                                                                                                      |
| OEL STEL [ppm]                                    | 100 ppm                                                                                                                                                     |
| Remark                                            | S (Agente com potencial para produzir sensibilização); A4 (Agente não classificável como carcinogénico no Homem)                                            |
| Regulatory reference                              | Norma Portuguesa NP 1796:2014                                                                                                                               |
| <b>Romania - Occupational Exposure Limits</b>     |                                                                                                                                                             |
| Local name                                        | Metacrilat de metil/Metil 2-metilpropenoat                                                                                                                  |
| OEL TWA                                           | 205 mg/m <sup>3</sup>                                                                                                                                       |
| OEL TWA [ppm]                                     | 50 ppm                                                                                                                                                      |
| OEL STEL                                          | 410 mg/m <sup>3</sup>                                                                                                                                       |
| OEL STEL [ppm]                                    | 100 ppm                                                                                                                                                     |
| Regulatory reference                              | Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)                                                                                                 |
| <b>Serbia - Occupational Exposure Limits</b>      |                                                                                                                                                             |
| Local name                                        | метил-метакрилат                                                                                                                                            |
| OEL TWA [ppm]                                     | 50 ppm                                                                                                                                                      |
| OEL STEL [ppm]                                    | 100 ppm                                                                                                                                                     |
| Remark                                            | ЕУ*** – напомена да се ради о хемијским материјама за које су утврђене индикативне граничне вредности изложености према Директиви 2009/161/ЕУ (трећа листа) |
| Regulatory reference                              | ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама („Службени гласник РС”, бр. 106/09, 117/17 и 107/21)              |
| <b>Slovakia - Occupational Exposure Limits</b>    |                                                                                                                                                             |
| Local name                                        | Metylmetakrylát (metyl 2-etylpropenoát)                                                                                                                     |
| NPHV (OEL TWA) [2]                                | 50 ppm                                                                                                                                                      |
| NPHV (OEL STEL) [ppm]                             | 100 ppm                                                                                                                                                     |
| Remark                                            | S - znamená, že faktor môže spôsobiť senzibilizáciu                                                                                                         |
| Regulatory reference                              | Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)                                                                                                         |

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| METHYL METHACRYLATE (80-62-6)                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Slovenia - Occupational Exposure Limits       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Local name                                    | metilmetakrilat (metil 2-metilprop-2-enoat; metil 2-metilpropenoat)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| OEL TWA                                       | 210 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| OEL TWA [ppm]                                 | 50 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| OEL STEL                                      | 420 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| OEL STEL [ppm]                                | 100 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Remark                                        | Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), EU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Regulatory reference                          | Uradni list RS, št. 72/2021 z dne 11.5.2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Spain - Occupational Exposure Limits          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Local name                                    | Metacrilato de metilo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| VLA-ED (OEL TWA) [2]                          | 50 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| VLA-EC (OEL STEL) [ppm]                       | 100 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Remark                                        | Sen (Sensibilizante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Regulatory reference                          | Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Sweden - Occupational Exposure Limits         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Local name                                    | Metylmetakrylat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| NGV (OEL TWA)                                 | 200 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| NGV (OEL TWA) [ppm]                           | 50 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| KTV (OEL STEL)                                | 400 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| KTV (OEL STEL) [ppm]                          | 100 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Remark                                        | M (Medicinska kontroller kan krävas för hantering av ämnet. Se vidare föreskrifterna om medicinska kontroller i arbetslivet. För vissa ämnen ska arbetsgivaren erbjuda läkarundersökning och för andra ämnen gäller krav på periodisk läkarundersökning och tjänstbarhetsbedömning); S (Ämnet är sensibiliserande. Sensibiliserande ämnen kan ge allergi eller annan överkänslighet. Överkänslighetsbesvären drabbar främst huden eller andningsorganen. Överkänslighet innebär att man reagerar vid kontakt med ämnen som normalt inte ger besvär. Allergi är en undergrupp av överkänslighet som orsakas av reaktioner i kroppens immunsystem. Särskilt låga gränsvärden har fastställts för ämnen med mer uttalat luftvägssensibiliserande egenskaper. Några ämnen med starkt sensibiliserande egenskaper får endast hanteras efter tillstånd från Arbetsmiljöverket, se föreskrifterna om kemiska arbetsmiljörisker. Dessa ämnen har inga gränsvärden men i vissa fall riktvärden) |
| Regulatory reference                          | Hygieniska gränsvärden (AFS 2018:1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| United Kingdom - Occupational Exposure Limits |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Local name                                    | Methyl methacrylate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| WEL TWA (OEL TWA) [1]                         | 208 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| WEL TWA (OEL TWA) [2]                         | 50 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| WEL STEL (OEL STEL)                           | 416 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| WEL STEL (OEL STEL) [ppm]                     | 100 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| METHYL METHACRYLATE (80-62-6)              |                                                                                                                                                                                                                                                                  |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Iceland - Occupational Exposure Limits     |                                                                                                                                                                                                                                                                  |
| Local name                                 | Metýlmetakrýlat (metakrýlsýrumetýlester, 2-metýlprópensýrumetýlester)                                                                                                                                                                                            |
| OEL TWA [ppm]                              | 50 ppm                                                                                                                                                                                                                                                           |
| OEL STEL [ppm]                             | 100 ppm                                                                                                                                                                                                                                                          |
| Regulatory reference                       | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 1296/2012)                                                                                                                                                                       |
| Norway - Occupational Exposure Limits      |                                                                                                                                                                                                                                                                  |
| Local name                                 | Metylmetakrylat (Metakrylsyremetylester)                                                                                                                                                                                                                         |
| Grenseverdi (OEL TWA) [1]                  | 100 mg/m <sup>3</sup>                                                                                                                                                                                                                                            |
| Grenseverdi (OEL TWA) [2]                  | 25 ppm                                                                                                                                                                                                                                                           |
| Korttidsverdi (OEL STEL)                   | 400 mg/m <sup>3</sup>                                                                                                                                                                                                                                            |
| Korttidsverdi (OEL STEL) [ppm]             | 100 ppm                                                                                                                                                                                                                                                          |
| Remark                                     | A: Kjemikalier som skal betraktes som at de fremkaller allergi eller annen overfølsomhet i øynene eller luftveier, eller som skal betraktes som at de fremkaller allergi ved hudkontakt;<br>E: EU har en veiledende grenseverdi og/eller anmerkning for stoffet. |
| Regulatory reference                       | FOR-2021-06-28-2248                                                                                                                                                                                                                                              |
| Switzerland - Occupational Exposure Limits |                                                                                                                                                                                                                                                                  |
| Local name                                 | Méthacrylate de méthyle / Methylmethacrylat [Methacrylsäuremethylester]                                                                                                                                                                                          |
| MAK (OEL TWA) [1]                          | 210 mg/m <sup>3</sup>                                                                                                                                                                                                                                            |
| MAK (OEL TWA) [2]                          | 50 ppm                                                                                                                                                                                                                                                           |
| KZGW (OEL STEL)                            | 420 mg/m <sup>3</sup>                                                                                                                                                                                                                                            |
| KZGW (OEL STEL) [ppm]                      | 100 ppm                                                                                                                                                                                                                                                          |
| Critical toxicity                          | Poumons, VRS, Yeux / Lunge, OAW, Auge                                                                                                                                                                                                                            |
| Notation                                   | S, SS <sub>C</sub> / S, SS <sub>C</sub>                                                                                                                                                                                                                          |
| Remark                                     | INRS, NIOSH                                                                                                                                                                                                                                                      |
| Regulatory reference                       | www.suva.ch, 28.03.2022                                                                                                                                                                                                                                          |
| USA - ACGIH - Occupational Exposure Limits |                                                                                                                                                                                                                                                                  |
| Local name                                 | Methyl methacrylate                                                                                                                                                                                                                                              |
| ACGIH OEL TWA [ppm]                        | 50 ppm                                                                                                                                                                                                                                                           |
| ACGIH OEL STEL [ppm]                       | 100 ppm                                                                                                                                                                                                                                                          |
| Remark (ACGIH)                             | TLV® Basis: URT & eye irr; body weight eff; pulm edema. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen)                                                                                                                                             |
| Regulatory reference                       | ACGIH 2022                                                                                                                                                                                                                                                       |
| 1,4-NAPHTHOQUINONE (130-15-4)              |                                                                                                                                                                                                                                                                  |
| Bulgaria - Occupational Exposure Limits    |                                                                                                                                                                                                                                                                  |
| Local name                                 | 1,4-нафтохинон                                                                                                                                                                                                                                                   |
| OEL TWA                                    | 0,1 mg/m <sup>3</sup>                                                                                                                                                                                                                                            |
| Regulatory reference                       | Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.)                                                                                |

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| 1,4-NAPHTHOQUINONE (130-15-4)                 |                                                                                                                                                                                          |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Latvia - Occupational Exposure Limits         |                                                                                                                                                                                          |
| Local name                                    | 1,4-Naftohinons                                                                                                                                                                          |
| OEL TWA                                       | 0,1 mg/m <sup>3</sup>                                                                                                                                                                    |
| Regulatory reference                          | Ministru kabineta 2007. gada 15. maija noteikumi Nr. 325                                                                                                                                 |
| Lithuania - Occupational Exposure Limits      |                                                                                                                                                                                          |
| Local name                                    | alfa-naftochinonas                                                                                                                                                                       |
| IPRV (OEL TWA)                                | 0,1 mg/m <sup>3</sup>                                                                                                                                                                    |
| Remark                                        | O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą)                                                                                                                           |
| Regulatory reference                          | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)                                                                                                                        |
| 2-METHYLPROPENOIC ACID (79-41-4)              |                                                                                                                                                                                          |
| USA - ACGIH - Occupational Exposure Limits    |                                                                                                                                                                                          |
| Local name                                    | Methacrylic acid                                                                                                                                                                         |
| ACGIH OEL TWA [ppm]                           | 20 ppm                                                                                                                                                                                   |
| Remark (ACGIH)                                | TLV® Basis: Skin & eye irr                                                                                                                                                               |
| Regulatory reference                          | ACGIH 2022                                                                                                                                                                               |
| 2-HYDROXYETHYL METHACRYLATE (868-77-9)        |                                                                                                                                                                                          |
| Lithuania - Occupational Exposure Limits      |                                                                                                                                                                                          |
| Local name                                    | Etilenglikolio metakrilo eteris                                                                                                                                                          |
| IPRV (OEL TWA)                                | 20 mg/m <sup>3</sup>                                                                                                                                                                     |
| Remark                                        | J (jautrinantis poveikis)                                                                                                                                                                |
| Regulatory reference                          | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)                                                                                                                        |
| Norway - Occupational Exposure Limits         |                                                                                                                                                                                          |
| Local name                                    | 2-hidroksyetylmetakrylat                                                                                                                                                                 |
| Grenseverdi (OEL TWA) [1]                     | 11 mg/m <sup>3</sup>                                                                                                                                                                     |
| Grenseverdi (OEL TWA) [2]                     | 2 ppm                                                                                                                                                                                    |
| Korttidsverdi (OEL STEL)                      | 16,5 mg/m <sup>3</sup>                                                                                                                                                                   |
| Korttidsverdi (OEL STEL) [ppm]                | 4 ppm                                                                                                                                                                                    |
| Remark                                        | A: Kjemikalier som skal betraktes som at de fremkaller allergi eller annen overfølsomhet i øynene eller luftveier, eller som skal betraktes som at de fremkaller allergi ved hudkontakt. |
| Regulatory reference                          | FOR-2021-06-28-2248                                                                                                                                                                      |
| N,N-DIMETHYL-P-TOLUIDINE (99-97-8)            |                                                                                                                                                                                          |
| Czech Republic - Occupational Exposure Limits |                                                                                                                                                                                          |
| Local name                                    | N,N-Dimethyl-p-toluidin                                                                                                                                                                  |
| PEL (OEL TWA)                                 | 5 mg/m <sup>3</sup>                                                                                                                                                                      |
| PEL (OEL TWA) [ppm]                           | 0,9 ppm                                                                                                                                                                                  |
| NPK-P (OEL C)                                 | 10 mg/m <sup>3</sup>                                                                                                                                                                     |
| NPK-P (OEL C) [ppm]                           | 1,8 ppm                                                                                                                                                                                  |
| Regulatory reference                          | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)                                                                                                                                    |

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### ROSIN (8050-09-7)

#### Croatia - Occupational Exposure Limits

|                      |                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local name           | Rosin (dim); kolofonij                                                                                                                                       |
| GVI (OEL TWA) [1]    | 0,05 mg/m <sup>3</sup>                                                                                                                                       |
| KGVI (OEL STEL)      | 0,15 mg/m <sup>3</sup>                                                                                                                                       |
| Remark               | Alergen koža (tvar koja može izazvati alergijsku reakciju na koži (H317))                                                                                    |
| Regulatory reference | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021) |

#### Czech Republic - Occupational Exposure Limits

|                      |                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------|
| Local name           | Kalafuna                                                                                     |
| PEL (OEL TWA)        | 1 mg/m <sup>3</sup> (prach, dým)                                                             |
| Remark               | S - látka má senzibilizující účinek (s větou H317, H334), V - vdechovatelná frakce aerosolu. |
| Regulatory reference | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)                                        |

#### Latvia - Occupational Exposure Limits

|                      |                                                            |
|----------------------|------------------------------------------------------------|
| Local name           | Kolofonijs                                                 |
| OEL TWA              | 4 mg/m <sup>3</sup>                                        |
| Regulatory reference | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 |

#### Portugal - Occupational Exposure Limits

|                      |                                                                                                                                                                                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local name           | Resina (colofónia), produtos de decomposição térmica de solda à base de                                                                                                                                          |
| Remark               | SC (Agente com potencial para produzir sensibilização pela via cutânea); SR (Agente com potencial para produzir sensibilização pela via respiratória); A4 (Agente não classificável como carcinogénico no Homem) |
| Regulatory reference | Norma Portuguesa NP 1796:2014                                                                                                                                                                                    |

#### Romania - Occupational Exposure Limits

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| Local name           | Colofoniu (produși de descompunere la lipire cu fludor, exprimați în formaldehidă) |
| OEL TWA              | 0,1 mg/m <sup>3</sup>                                                              |
| Regulatory reference | Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)                        |

#### Spain - Occupational Exposure Limits

|                      |                                                                                                                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local name           | Resina núcleo de soldadura (Colofonia)                                                                                                                                                                                                                  |
| Remark               | m (Los productos de descomposición térmica en el ambiente de la resina núcleo de soldadura, colo-fonia, tienen un marcado carácter sensibilizante, lo que aconseja reducir la exposición laboral a los mismos lo máximo posible), Sen (Sensibilizante). |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT                                                                                                                                                                           |

#### United Kingdom - Occupational Exposure Limits

|                       |                                              |
|-----------------------|----------------------------------------------|
| Local name            | Rosin-based solder flux fume                 |
| WEL TWA (OEL TWA) [1] | 0,05 mg/m <sup>3</sup>                       |
| WEL STEL (OEL STEL)   | 0,15 mg/m <sup>3</sup>                       |
| Remark                | Sen (Capable of causing occupational asthma) |
| Regulatory reference  | EH40/2005 (Fourth edition, 2020). HSE        |

#### Switzerland - Occupational Exposure Limits

|            |                         |
|------------|-------------------------|
| Local name | Colophane / Colophonium |
|------------|-------------------------|

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### ROSIN (8050-09-7)

|                      |                             |
|----------------------|-----------------------------|
| Critical toxicity    | Poumons, Peau / Lunge, Haut |
| Notation             | S / S                       |
| Regulatory reference | www.suva.ch, 01.01.2023     |

### USA - ACGIH - Occupational Exposure Limits

|                      |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| Local name           | Resin acids, as total Resin acids                                             |
| ACGIH OEL TWA        | 0,001 mg/m <sup>3</sup> (I - Inhalable particulate matter)                    |
| Remark (ACGIH)       | TLV® Basis: Asthma; resp & eye irr; dermal & resp sens. Notations: DSEN; RSEN |
| Regulatory reference | ACGIH 2022                                                                    |

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure that there is a suitable ventilation system.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Protective clothing. Safety glasses.

#### Personal protective equipment symbol(s):



### 8.2.2.1. Eye and face protection

#### Eye protection:

Safety glasses

### Eye protection

| Type           | Field of application | Characteristics   | Standard |
|----------------|----------------------|-------------------|----------|
| Safety glasses |                      | With side shields |          |

### 8.2.2.2. Skin protection

### Skin and body protection

| Type              | Standard |
|-------------------|----------|
| Disposable gloves |          |

#### Hand protection:

Nitrile rubber gloves

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### Hand protection

| Type              | Material | Permeation | Thickness (mm) | Penetration | Standard |
|-------------------|----------|------------|----------------|-------------|----------|
| Disposable gloves |          |            |                |             | EN 374-2 |

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

### Respiratory protection

| Device         | Filter type | Condition         | Standard |
|----------------|-------------|-------------------|----------|
| Full face mask |             | Vapour protection |          |

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|                                                 |                      |
|-------------------------------------------------|----------------------|
| Physical state                                  | : Liquid             |
| Colour                                          | : Off-white.         |
| Odour                                           | : Not available      |
| Odour threshold                                 | : Not available      |
| Melting point                                   | : No data available. |
| Freezing point                                  | : Not available      |
| Boiling point                                   | : 1005 °C            |
| Flammability                                    | : Not available      |
| Explosive limits                                | : Not available      |
| Lower explosion limit                           | : Not available      |
| Upper explosion limit                           | : Not available      |
| Flash point                                     | : 15 °C              |
| Auto-ignition temperature                       | : No data available. |
| Decomposition temperature                       | : Not available      |
| pH                                              | : No data available. |
| Viscosity, kinematic                            | : Not available      |
| Solubility                                      | : Not available      |
| Partition coefficient n-octanol/water (Log Kow) | : Not available      |
| Vapour pressure                                 | : Not available      |
| Vapour pressure at 50°C                         | : Not available      |
| Density                                         | : Not available      |
| Relative density                                | : 0.97               |
| Relative vapour density at 20°C                 | : No data available. |
| Particle characteristics                        | : Not applicable     |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

Strong acids. Oxidizing agent.

#### 10.6. Hazardous decomposition products

May liberate toxic gases.

### SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### METHYL METHACRYLATE (80-62-6)

|                    |                                                                                                                 |
|--------------------|-----------------------------------------------------------------------------------------------------------------|
| LD50 dermal rabbit | > 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
|--------------------|-----------------------------------------------------------------------------------------------------------------|

#### 1,4-NAPHTHOQUINONE (130-15-4)

|                 |                                                                                       |
|-----------------|---------------------------------------------------------------------------------------|
| LD50 oral rat   | 124 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 oral       | 0,4 mg/kg                                                                             |
| LD50 dermal rat | 202 mg/kg                                                                             |

#### 2-HYDROXYETHYL METHACRYLATE (868-77-9)

|                    |                                                          |
|--------------------|----------------------------------------------------------|
| LD50 oral rat      | 5564 mg/kg bodyweight Animal: rat, Guideline: other:     |
| LD50 dermal rabbit | > 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male |
| LD50 dermal        | > 3000 mg/kg                                             |

#### N,N-DIMETHYL-P-TOLUIDINE (99-97-8)

|                                 |                                                                                               |
|---------------------------------|-----------------------------------------------------------------------------------------------|
| LD50 oral rat                   | 1650 mg/kg                                                                                    |
| LD50 oral                       | 139 mg/kg bodyweight Animal: mouse, Guideline: other:                                         |
| LD50 dermal rabbit              | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LD50 dermal                     | > 2000 mg/kg                                                                                  |
| LC50 Inhalation - Rat           | 1,4 mg/l air Animal: rat, Guideline: other:                                                   |
| LC50 Inhalation - Rat (Vapours) | 1,4 mg/l/4h                                                                                   |



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|                                                                                  |                                                                                                                                                                     |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTER WITH ACRYLIC ACID (28961-43-5)</b> |                                                                                                                                                                     |
| LD50 oral rat                                                                    | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EU Method B.1 (Acute Toxicity (Oral))                          |
| LD50 dermal rabbit                                                               | > 13200 mg/kg bodyweight Animal: rabbit                                                                                                                             |
| <b>BIS(METHACRYLOYLOXYETHYL) HYDROGEN PHOSPHATE (32435-46-4)</b>                 |                                                                                                                                                                     |
| LD50 oral rat                                                                    | > 5000 mg/kg                                                                                                                                                        |
| <b>ROSIN (8050-09-7)</b>                                                         |                                                                                                                                                                     |
| LD50 oral rat                                                                    | 2800 mg/kg                                                                                                                                                          |
| LD50 dermal rat                                                                  | > 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))    |
| LD50 dermal rabbit                                                               | > 2000 mg/kg                                                                                                                                                        |
| Skin corrosion/irritation                                                        | : Causes severe skin burns.<br>pH: No data available.                                                                                                               |
| <b>1,4-NAPHTHOQUINONE (130-15-4)</b>                                             |                                                                                                                                                                     |
| pH                                                                               | Not Applicable                                                                                                                                                      |
| <b>N,N-DIMETHYL-P-TOLUIDINE (99-97-8)</b>                                        |                                                                                                                                                                     |
| pH                                                                               | 7,44 Temp.: 25 °C Concentration: 1 vol%                                                                                                                             |
| Serious eye damage/irritation                                                    | : Causes serious eye damage.<br>pH: No data available.                                                                                                              |
| <b>1,4-NAPHTHOQUINONE (130-15-4)</b>                                             |                                                                                                                                                                     |
| pH                                                                               | Not Applicable                                                                                                                                                      |
| <b>N,N-DIMETHYL-P-TOLUIDINE (99-97-8)</b>                                        |                                                                                                                                                                     |
| pH                                                                               | 7,44 Temp.: 25 °C Concentration: 1 vol%                                                                                                                             |
| Respiratory or skin sensitisation                                                | : May cause an allergic skin reaction.                                                                                                                              |
| Germ cell mutagenicity                                                           | : Not classified                                                                                                                                                    |
| Carcinogenicity                                                                  | : Not classified                                                                                                                                                    |
| <b>METHYL METHACRYLATE (80-62-6)</b>                                             |                                                                                                                                                                     |
| IARC group                                                                       | 3 - Not classifiable                                                                                                                                                |
| <b>N,N-DIMETHYL-P-TOLUIDINE (99-97-8)</b>                                        |                                                                                                                                                                     |
| IARC group                                                                       | 2B - Possibly carcinogenic to humans                                                                                                                                |
| Reproductive toxicity                                                            | : Not classified                                                                                                                                                    |
| STOT-single exposure                                                             | : May cause respiratory irritation.                                                                                                                                 |
| <b>METHYL METHACRYLATE (80-62-6)</b>                                             |                                                                                                                                                                     |
| STOT-single exposure                                                             | May cause respiratory irritation.                                                                                                                                   |
| <b>1,4-NAPHTHOQUINONE (130-15-4)</b>                                             |                                                                                                                                                                     |
| STOT-single exposure                                                             | May cause respiratory irritation.                                                                                                                                   |
| STOT-repeated exposure                                                           | : Not classified                                                                                                                                                    |
| <b>1,4-NAPHTHOQUINONE (130-15-4)</b>                                             |                                                                                                                                                                     |
| NOAEL (oral, rat, 90 days)                                                       | 2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| STOT-repeated exposure                                                           | Causes damage to organs through prolonged or repeated exposure.                                                                                                     |

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### 2-HYDROXYETHYL METHACRYLATE (868-77-9)

|                                       |                                                                                                   |
|---------------------------------------|---------------------------------------------------------------------------------------------------|
| LOAEC (inhalation, rat, gas, 90 days) | 350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |
| NOAEC (inhalation, rat, gas, 90 days) | 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |

### N,N-DIMETHYL-P-TOLUIDINE (99-97-8)

|                            |                                                                 |
|----------------------------|-----------------------------------------------------------------|
| LOAEL (oral, rat, 90 days) | 6 mg/kg bodyweight Animal: rat, Guideline: other:               |
| STOT-repeated exposure     | Causes damage to organs through prolonged or repeated exposure. |

### PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTER WITH ACRYLIC ACID (28961-43-5)

|                            |                                                                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOAEL (oral, rat, 90 days) | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Aspiration hazard : Not classified

### METHYL METHACRYLATE (80-62-6)

|                      |             |
|----------------------|-------------|
| Viscosity, kinematic | 0,561 mm²/s |
|----------------------|-------------|

### N,N-DIMETHYL-P-TOLUIDINE (99-97-8)

|                      |              |
|----------------------|--------------|
| Viscosity, kinematic | 16,364 mm²/s |
|----------------------|--------------|

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.  
Not rapidly degradable

### METHYL METHACRYLATE (80-62-6)

|                      |                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]      | > 79 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)                                                   |
| EC50 - Crustacea [1] | 69 mg/l Test organisms (species): Daphnia magna                                                                                            |
| EC50 72h - Algae [1] | > 110 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| LOEC (chronic)       | 68 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                           |
| NOEC (chronic)       | 37 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                           |
| NOEC chronic fish    | 9,4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'                                         |

### 1,4-NAPHTHOQUINONE (130-15-4)

|                      |                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]      | 0,0448 mg/l Test organisms (species): Oryzias latipes                                                                                     |
| EC50 - Crustacea [1] | 0,0261 mg/l Test organisms (species): Daphnia magna                                                                                       |
| EC50 72h - Algae [1] | 0,42 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |

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### 2-HYDROXYETHYL METHACRYLATE (868-77-9)

|                                    |                                                                                                                                          |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]                    | > 100 mg/l Test organisms (species): Oryzias latipes                                                                                     |
| EC50 - Crustacea [1]               | 380 mg/l Test organisms (species): Daphnia magna                                                                                         |
| EC50 - Other aquatic organisms [1] | 380 mg/l                                                                                                                                 |
| EC50 72h - Algae [1]               | 836 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2]               | 345 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| LOEC (chronic)                     | 49,6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                       |
| NOEC (chronic)                     | 24,1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                       |

### N,N-DIMETHYL-P-TOLUIDINE (99-97-8)

|                      |                                                                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]      | 46 mg/l Test organisms (species): Pimephales promelas                                                                                         |
| LC50 - Fish [2]      | 46 – 52 mg/l Pimephales promelas (Fathead minnow)                                                                                             |
| EC50 - Crustacea [1] | 8,48 mg/l Test organisms (species): Daphnia magna                                                                                             |
| EC50 72h - Algae [1] | 24,37002 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

### PROPYLIDYNETRIMETHANOL, ETHOXYLATED, ESTER WITH ACRYLIC ACID (28961-43-5)

|                      |                                                                                                     |
|----------------------|-----------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]      | 1,95 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)                  |
| EC50 - Crustacea [1] | 70,7 mg/l Test organisms (species): Daphnia magna                                                   |
| EC50 72h - Algae [1] | 2,2 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

### ROSIN (8050-09-7)

|                      |                                                                                   |
|----------------------|-----------------------------------------------------------------------------------|
| LC50 - Fish [1]      | 5,4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| LC50 - Fish [2]      | 5,4 mg/l Test organisms (species):                                                |
| EC50 - Crustacea [1] | 911 mg/l /48 h                                                                    |
| EC50 72h - Algae [1] | > 1000 mg/l                                                                       |
| NOEC (chronic)       | 1000 mg/l Pseudokirchneriella subcapitata (Green algae)                           |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

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PBT: not yet assessed

vPvB: not yet assessed

### 12.6. Endocrine disrupting properties

No additional information available

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### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                                      |
|--------------------------------------------|------------------------------------------------------------------------------------------------------|
| Regional legislation (waste)               | : Disposal must be done according to official regulations.                                           |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.        |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                           |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations.                            |
| Additional information                     | : Industrial waste.                                                                                  |
| Ecology - waste materials                  | : Avoid release to the environment.                                                                  |
| European List of Waste (LoW) code          | : 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances |

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                                                                                                          | IMDG                                                                                                                  | IATA                                                                                                               | ADN                                                                                                                   | RID                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>14.1. UN number or ID number</b>                                                                                          |                                                                                                                       |                                                                                                                    |                                                                                                                       |                                                                                                                       |
| UN 2924                                                                                                                      | UN 2924                                                                                                               | UN 2924                                                                                                            | UN 2924                                                                                                               | UN 2924                                                                                                               |
| <b>14.2. UN proper shipping name</b>                                                                                         |                                                                                                                       |                                                                                                                    |                                                                                                                       |                                                                                                                       |
| FLAMMABLE LIQUID,<br>CORROSIVE, N.O.S.<br>(METHYL<br>METHACRYLATE ; 2-<br>METHYLPROPENOIC<br>ACID)                           | FLAMMABLE LIQUID,<br>CORROSIVE, N.O.S.<br>(METHYL<br>METHACRYLATE ; 2-<br>METHYLPROPENOIC<br>ACID)                    | Flammable liquid,<br>corrosive, n.o.s. (METHYL<br>METHACRYLATE ; 2-<br>METHYLPROPENOIC<br>ACID)                    | FLAMMABLE LIQUID,<br>CORROSIVE, N.O.S.<br>(METHYL<br>METHACRYLATE ; 2-<br>METHYLPROPENOIC<br>ACID)                    | FLAMMABLE LIQUID,<br>CORROSIVE, N.O.S.<br>(METHYL<br>METHACRYLATE ; 2-<br>METHYLPROPENOIC<br>ACID)                    |
| <b>Transport document description</b>                                                                                        |                                                                                                                       |                                                                                                                    |                                                                                                                       |                                                                                                                       |
| UN 2924 FLAMMABLE<br>LIQUID, CORROSIVE,<br>N.O.S. (METHYL<br>METHACRYLATE ; 2-<br>METHYLPROPENOIC<br>ACID), 3 (8), II, (D/E) | UN 2924 FLAMMABLE<br>LIQUID, CORROSIVE,<br>N.O.S. (METHYL<br>METHACRYLATE ; 2-<br>METHYLPROPENOIC<br>ACID), 3 (8), II | UN 2924 Flammable liquid,<br>corrosive, n.o.s. (METHYL<br>METHACRYLATE ; 2-<br>METHYLPROPENOIC<br>ACID), 3 (8), II | UN 2924 FLAMMABLE<br>LIQUID, CORROSIVE,<br>N.O.S. (METHYL<br>METHACRYLATE ; 2-<br>METHYLPROPENOIC<br>ACID), 3 (8), II | UN 2924 FLAMMABLE<br>LIQUID, CORROSIVE,<br>N.O.S. (METHYL<br>METHACRYLATE ; 2-<br>METHYLPROPENOIC<br>ACID), 3 (8), II |
| <b>14.3. Transport hazard class(es)</b>                                                                                      |                                                                                                                       |                                                                                                                    |                                                                                                                       |                                                                                                                       |
| 3 (8)                                                                                                                        | 3 (8)                                                                                                                 | 3 (8)                                                                                                              | 3 (8)                                                                                                                 | 3 (8)                                                                                                                 |
|                                                                                                                              |                                                                                                                       |                                                                                                                    |                                                                                                                       |                                                                                                                       |
| <b>14.4. Packing group</b>                                                                                                   |                                                                                                                       |                                                                                                                    |                                                                                                                       |                                                                                                                       |
| II                                                                                                                           | II                                                                                                                    | II                                                                                                                 | II                                                                                                                    | II                                                                                                                    |
| <b>14.5. Environmental hazards</b>                                                                                           |                                                                                                                       |                                                                                                                    |                                                                                                                       |                                                                                                                       |
| Dangerous for the<br>environment: No                                                                                         | Dangerous for the<br>environment: No<br>Marine pollutant: No                                                          | Dangerous for the<br>environment: No                                                                               | Dangerous for the<br>environment: No                                                                                  | Dangerous for the<br>environment: No                                                                                  |
| No supplementary information available                                                                                       |                                                                                                                       |                                                                                                                    |                                                                                                                       |                                                                                                                       |

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### 14.6. Special precautions for user

#### Overland transport

|                                                           |               |
|-----------------------------------------------------------|---------------|
| Classification code (ADR)                                 | : FC          |
| Special provisions (ADR)                                  | : 274         |
| Limited quantities (ADR)                                  | : 1I          |
| Excepted quantities (ADR)                                 | : E2          |
| Packing instructions (ADR)                                | : P001, IBC02 |
| Mixed packing provisions (ADR)                            | : MP19        |
| Portable tank and bulk container instructions (ADR)       | : T11         |
| Portable tank and bulk container special provisions (ADR) | : TP2, TP27   |
| Tank code (ADR)                                           | : L4BH        |
| Vehicle for tank carriage                                 | : FL          |
| Transport category (ADR)                                  | : 2           |
| Special provisions for carriage - Operation (ADR)         | : S2, S20     |
| Hazard identification number (Kemler No.)                 | : 338         |
| Orange plates                                             | :             |



|                               |         |
|-------------------------------|---------|
| Tunnel restriction code (ADR) | : D/E   |
| EAC code                      | : •3WE  |
| APP code                      | : A(fl) |

#### Transport by sea

|                                    |                                                    |
|------------------------------------|----------------------------------------------------|
| Special provisions (IMDG)          | : 274                                              |
| Limited quantities (IMDG)          | : 1 L                                              |
| Excepted quantities (IMDG)         | : E2                                               |
| Packing instructions (IMDG)        | : P001                                             |
| IBC packing instructions (IMDG)    | : IBC02                                            |
| Tank instructions (IMDG)           | : T11                                              |
| Tank special provisions (IMDG)     | : TP2, TP27                                        |
| EmS-No. (Fire)                     | : F-E                                              |
| EmS-No. (Spillage)                 | : S-C                                              |
| Stowage category (IMDG)            | : B                                                |
| Stowage and handling (IMDG)        | : SW2                                              |
| Properties and observations (IMDG) | : Causes burns to skin, eyes and mucous membranes. |

#### Air transport

|                                              |            |
|----------------------------------------------|------------|
| PCA Excepted quantities (IATA)               | : E2       |
| PCA Limited quantities (IATA)                | : Y340     |
| PCA limited quantity max net quantity (IATA) | : 0.5L     |
| PCA packing instructions (IATA)              | : 352      |
| PCA max net quantity (IATA)                  | : 1L       |
| CAO packing instructions (IATA)              | : 363      |
| CAO max net quantity (IATA)                  | : 5L       |
| Special provisions (IATA)                    | : A3, A803 |
| ERG code (IATA)                              | : 3CH      |

#### Inland waterway transport

|                                   |                 |
|-----------------------------------|-----------------|
| Classification code (ADN)         | : FC            |
| Special provisions (ADN)          | : 274           |
| Limited quantities (ADN)          | : 1 L           |
| Excepted quantities (ADN)         | : E2            |
| Carriage permitted (ADN)          | : T             |
| Equipment required (ADN)          | : PP, EP, EX, A |
| Ventilation (ADN)                 | : VE01          |
| Number of blue cones/lights (ADN) | : 1             |

#### Rail transport

|                           |      |
|---------------------------|------|
| Classification code (RID) | : FC |
|---------------------------|------|

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|                                                           |               |
|-----------------------------------------------------------|---------------|
| Special provisions (RID)                                  | : 274         |
| Limited quantities (RID)                                  | : 1L          |
| Excepted quantities (RID)                                 | : E2          |
| Packing instructions (RID)                                | : P001, IBC02 |
| Mixed packing provisions (RID)                            | : MP19        |
| Portable tank and bulk container instructions (RID)       | : T11         |
| Portable tank and bulk container special provisions (RID) | : TP2, TP27   |
| Tank codes for RID tanks (RID)                            | : L4BH        |
| Transport category (RID)                                  | : 2           |
| Colis express (express parcels) (RID)                     | : CE7         |
| Hazard identification number (RID)                        | : 338         |

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

##### France

| Occupational diseases |                                            |
|-----------------------|--------------------------------------------|
| Code                  | Description                                |
| RG 65                 | Eczematiform lesions of allergic mechanism |
| RG 66                 | Occupational rhinitis and asthma           |
| RG 82                 | Conditions caused by methyl methacrylate   |

##### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

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Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

### Netherlands

ABM category : A(3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic environment  
SZW-lijst van kankerverwekkende stoffen : ROSIN is listed  
SZW-lijst van mutagene stoffen : ROSIN is listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

### Denmark

Class for fire hazard : Class I-1  
Store unit : 1 liter  
Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed  
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### Switzerland

Storage class (LK) : LK 3 - Flammable liquids

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Indication of changes:

Revision - See : \*.

| Abbreviations and acronyms: |                                                                                                 |
|-----------------------------|-------------------------------------------------------------------------------------------------|
| CAS-No.                     | Chemical Abstract Service number                                                                |
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                         | Acute Toxicity Estimate                                                                         |
| BCF                         | Bioconcentration factor                                                                         |
| BLV                         | Biological limit value                                                                          |
| BOD                         | Biochemical oxygen demand (BOD)                                                                 |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| COD                         | Chemical oxygen demand (COD)                                                                    |
| DMEL                        | Derived Minimal Effect level                                                                    |
| DNEL                        | Derived-No Effect Level                                                                         |
| EC50                        | Median effective concentration                                                                  |
| EC-No.                      | European Community number                                                                       |
| ED                          | Endocrine disrupting properties                                                                 |
| EN                          | European Standard                                                                               |
| IARC                        | International Agency for Research on Cancer                                                     |
| IOELV                       | Indicative Occupational Exposure Limit Value                                                    |

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### Abbreviations and acronyms:

|        |                                                                                                   |
|--------|---------------------------------------------------------------------------------------------------|
| IATA   | International Air Transport Association                                                           |
| IMDG   | International Maritime Dangerous Goods                                                            |
| LC50   | Median lethal concentration                                                                       |
| LD50   | Median lethal dose                                                                                |
| LOAEL  | Lowest Observed Adverse Effect Level                                                              |
| N.O.S. | Not Otherwise Specified                                                                           |
| NOAEC  | No-Observed Adverse Effect Concentration                                                          |
| NOAEL  | No-Observed Adverse Effect Level                                                                  |
| NOEC   | No-Observed Effect Concentration                                                                  |
| OEL    | Occupational Exposure Limit                                                                       |
| OECD   | Organisation for Economic Co-operation and Development                                            |
| PBT    | Persistent Bioaccumulative Toxic                                                                  |
| PNEC   | Predicted No-Effect Concentration                                                                 |
| REACH  | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID    | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| SDS    | Safety Data Sheet                                                                                 |
| STP    | Sewage treatment plant                                                                            |
| ThOD   | Theoretical oxygen demand (ThOD)                                                                  |
| TLM    | Median Tolerance Limit                                                                            |
| TRGS   | Technical Rules for Hazardous Substances                                                          |
| vPvB   | Very Persistent and Very Bioaccumulative                                                          |
| VOC    | Volatile Organic Compounds                                                                        |
| WGK    | Water Hazard Class                                                                                |

Data sources : ECHA (European Chemicals Agency).

### Full text of H- and EUH-statements:

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Acute Tox. 1 (Inhalation) | Acute toxicity (inhal.), Category 1                               |
| Acute Tox. 3 (Dermal)     | Acute toxicity (dermal), Category 3                               |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3                               |
| Acute Tox. 3 (Oral)       | Acute toxicity (oral), Category 3                                 |
| Acute Tox. 4 (Dermal)     | Acute toxicity (dermal), Category 4                               |
| Acute Tox. 4 (Oral)       | Acute toxicity (oral), Category 4                                 |
| Aquatic Acute 1           | Hazardous to the aquatic environment – Acute Hazard, Category 1   |
| Aquatic Chronic 1         | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2         | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3         | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| EUH210                    | Safety data sheet available on request.                           |
| Eye Dam. 1                | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2              | Serious eye damage/eye irritation, Category 2                     |



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| Full text of H- and EUH-statements: |                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------|
| Flam. Liq. 2                        | Flammable liquids, Category 2                                                              |
| H225                                | Highly flammable liquid and vapour.                                                        |
| H301                                | Toxic if swallowed.                                                                        |
| H302                                | Harmful if swallowed.                                                                      |
| H311                                | Toxic in contact with skin.                                                                |
| H312                                | Harmful in contact with skin.                                                              |
| H314                                | Causes severe skin burns and eye damage.                                                   |
| H315                                | Causes skin irritation.                                                                    |
| H317                                | May cause an allergic skin reaction.                                                       |
| H318                                | Causes serious eye damage.                                                                 |
| H319                                | Causes serious eye irritation.                                                             |
| H330                                | Fatal if inhaled.                                                                          |
| H331                                | Toxic if inhaled.                                                                          |
| H335                                | May cause respiratory irritation.                                                          |
| H372                                | Causes damage to organs through prolonged or repeated exposure.                            |
| H400                                | Very toxic to aquatic life.                                                                |
| H410                                | Very toxic to aquatic life with long lasting effects.                                      |
| H411                                | Toxic to aquatic life with long lasting effects.                                           |
| H412                                | Harmful to aquatic life with long lasting effects.                                         |
| Skin Corr. 1A                       | Skin corrosion/irritation, Category 1, Sub-Category 1A                                     |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                                                      |
| Skin Sens. 1                        | Skin sensitisation, Category 1                                                             |
| Skin Sens. 1B                       | Skin sensitisation, category 1B                                                            |
| STOT RE 1                           | Specific target organ toxicity – Repeated exposure, Category 1                             |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.