

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form	: Mixture
Trade name	: SG300-05 BLACK
Type of product	: adhesives
Synonyms	: 75100010, 75100011
Product group	: Trade product

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
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

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) VelocityEHS: 24 hrs/7 days
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SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

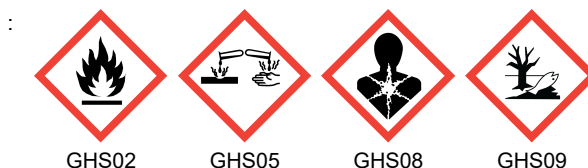
Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 1, Sub-Category 1A	H314
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity – Repeated exposure, Category 2	H373
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411
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)



Signal word (CLP)

: Danger

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Contains	: DIBENZOYL PEROXIDE; METHYL METHACRYLATE; ROSIN; 2-METHYLPROPENOIC ACID; STYRENE
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H373 - May cause damage to organs through prolonged or repeated exposure. H411 - Toxic 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. P260 - Do not breathe dusts or mists. P264 - Wash hands, forearms and face thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 - IF exposed or concerned: P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
EUH-statements	: EUH208 - Contains DIBENZOYL PEROXIDE(94-36-0), METHYL METHACRYLATE(80-62-6), ROSIN(8050-09-7). May produce an allergic reaction. EUH210 - Safety data sheet available on request.

2.3. Other hazards

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 substance with a Community workplace exposure limit	CAS-No.: 80-62-6 EC-No.: 201-297-1 EC Index-No.: 607-035-00-6 REACH-no: 01-2119452498-28	$\geq 20 - < 50$	Flam. Liq. 2, H225 Acute Tox. 2 (Oral), H300 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412
2-METHYLPROPENOIC ACID	CAS-No.: 79-41-4 EC-No.: 201-204-4 EC Index-No.: 607-088-00-5 REACH-no: 01-2119463884-26	$\geq 5 - < 10$	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
REACTIONMASS OF DIETHYLENEGLYCOL DIBENZOATE, DIPROPYLENE DIBENZOATE AND TRIETHYLENE GLYCOL DIBENZOATE	REACH-no: 01-2119535193-44	$\geq 2 - < 5$	Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ACRYLIC POLYMER	CAS-No.: 25053-09-2 EC-No.: 607-511-3	≥ 2	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
STYRENE	CAS-No.: 100-42-5 EC-No.: 202-851-5 EC Index-No.: 601-026-00-0 REACH-no: 01-2119457861-32	≥ 1 – < 2	Flam. Liq. 3, H226 Repr. 2, H361d Acute Tox. 4 (Inhalation), H332 STOT RE 1, H372 Skin Irrit. 2, H315 Eye Irrit. 2, H319
DIBENZOYL PEROXIDE	CAS-No.: 94-36-0 EC-No.: 202-327-6 EC Index-No.: 617-008-00-0	≥ 1 – < 2	Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
ROSIN	CAS-No.: 8050-09-7 EC-No.: 232-475-7 EC Index-No.: 650-015-00-7	< 1	Skin Sens. 1, H317 Aquatic Chronic 2, H411
TRIZINC BIS(ORTHOPHOSPHATE)	CAS-No.: 7779-90-0 EC-No.: 231-944-3 EC Index-No.: 030-011-00-6 REACH-no: 01-2119485044-40	< 1	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:

Name	Product identifier	Specific concentration limits
2-METHYLPROPENOIC ACID	CAS-No.: 79-41-4 EC-No.: 201-204-4 EC Index-No.: 607-088-00-5 REACH-no: 01-2119463884-26	(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

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

5.2. Special hazards arising from the substance or mixture

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|--|---|
| 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

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|--------------------------------|--|
| 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.
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

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|---|--|
| 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. Ensure adequate air ventilation. |
| 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

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|-----------------------------------|--|
| 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

DIBENZOYL PEROXIDE (94-36-0)	
Belgium - Occupational Exposure Limits	
Local name	Peroxyde de dibenzoyl # Dibenzoylperoxide
OEL TWA	5 mg/m ³
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
Croatia - Occupational Exposure Limits	
Local name	Dibenzoil peroksid; benzoil peroksid
GVI (OEL TWA) [1]	5 mg/m ³
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	Benzoylperoxid (Dibenzoylperoxid)
PEL (OEL TWA)	5 mg/m ³
NPK-P (OEL C)	10 mg/m ³
Remark	I - dráždí 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	Benzoylperoxid (Dibenzoylperoxid)
OEL TWA [1]	5 mg/m ³
Regulatory reference	BEK nr 1054 af 28/06/2022
Estonia - Occupational Exposure Limits	
Local name	Bensoüülperoksiid
OEL TWA	5 mg/m ³
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 15.05.2021, 1)

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DIBENZOYL PEROXIDE (94-36-0)

Finland - Occupational Exposure Limits

Local name	Bentsoyyliperoxidi
HTP (OEL TWA) [1]	5 mg/m ³
HTP (OEL STEL)	10 mg/m ³
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)

France - Occupational Exposure Limits

Local name	Peroxyde de dibenzoyl
VME (OEL TWA)	5 mg/m ³
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)

Germany - Occupational Exposure Limits (TRGS 900)

Local name	Dibenzoylperoxid
AGW (OEL TWA) [1]	5 mg/m ³ (E)
Peak exposure limitation factor	1(I)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission)
Regulatory reference	TRGS900

Greece - Occupational Exposure Limits

Local name	Υπεροξειδίο του βενζοϋλίου
OEL TWA	5 mg/m ³
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους

Hungary - Occupational Exposure Limits

Local name	DIBENZOIL-PEROXID
AK (OEL TWA)	5 mg/m ³
CK (OEL STEL)	5 mg/m ³
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 egyéneken „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat); 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

Ireland - Occupational Exposure Limits

Local name	Dibenzoyl peroxide [Benzoyl peroxide]
OEL TWA [1]	5 mg/m ³
Remark	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))

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DIBENZOYL PEROXIDE (94-36-0)	
Regulatory reference	Chemical Agents Code of Practice 2021
Poland - Occupational Exposure Limits	
Local name	Nadtlenek dibenzoilowy (benzoilu nadtlenek)
NDS (OEL TWA)	5 mg/m ³
NDSch (OEL STEL)	10 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Peróxido de benzoílo
OEL TWA	5 mg/m ³
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Dibenzoyldioxidán (dibenzoylperoxid)
NPHV (OEL TWA) [1]	5 mg/m ³
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	dibenzoilperoksid (benzoilperoksid)
OEL TWA	5 mg/m ³
OEL STEL	5 mg/m ³
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
Spain - Occupational Exposure Limits	
Local name	Peróxido de benzoilo
VLA-ED (OEL TWA) [1]	5 mg/m ³
Remark	Sen (Sensibilizante).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT
United Kingdom - Occupational Exposure Limits	
Local name	Dibenzoyl peroxide
WEL TWA (OEL TWA) [1]	5 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Díbensóýlperoxíð (bensóýlperoxíð)
OEL TWA	5 mg/m ³
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Norway - Occupational Exposure Limits	
Local name	Benzoylperoksid (Dibenzoylperoksid)
Grenseverdi (OEL TWA) [1]	5 mg/m ³
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

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DIBENZOYL PEROXIDE (94-36-0)

Switzerland - Occupational Exposure Limits

Local name	Peroxyde de benzoyle / Dibenzoylperoxid [Benzoylperoxid]
MAK (OEL TWA) [1]	5 mg/m ³ (i) / (e)
KZGW (OEL STEL)	5 mg/m ³ (i) / (e)
Critical toxicity	VRS, Peau / OAW, Haut
Remark	NIOSH
Regulatory reference	www.suva.ch, 01.01.2023

USA - ACGIH - Occupational Exposure Limits

Local name	Benzoyl peroxide
ACGIH OEL TWA	5 mg/m ³
Remark (ACGIH)	TLV® Basis: URT & skin irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2022

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 ³
MAK (OEL TWA) [ppm]	50 ppm
MAK (OEL STEL)	420 mg/m ³
MAK (OEL STEL) [ppm]	100 ppm

Belgium - Occupational Exposure Limits

Local name	Méthacrylate de méthyle # Methylmethacrylaat
OEL TWA	208 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	416 mg/m ³
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)
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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METHYL METHACRYLATE (80-62-6)

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 ³
PEL (OEL TWA) [ppm]	12 ppm
NPK-P (OEL C)	150 mg/m ³
NPK-P (OEL C) [ppm]	36 ppm
Remark	I - dráždí 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 ³
OEL TWA [2]	25 ppm
OEL STEL	100 mg/m ³
Remark	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 202 af 21/02/2023

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, 21.12.2022, 3)

Finland - Occupational Exposure Limits

Local name	Metyylimetakrylaatti
HTP (OEL TWA) [1]	42 mg/m ³
HTP (OEL TWA) [2]	10 ppm
HTP (OEL STEL)	210 mg/m ³
HTP (OEL STEL) [ppm]	50 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)

France - Occupational Exposure Limits

Local name	Méthacrylate de méthyle
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METHYL METHACRYLATE (80-62-6)	
VME (OEL TWA)	205 mg/m ³
VME (OEL TWA) [ppm]	50 ppm
VLE (OEL C/STEL)	410 mg/m ³
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 ³
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 μεθυλεστέρας
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 ³
CK (OEL STEL)	415 mg/m ³
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 egyéneken „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
Ireland - Occupational Exposure Limits	
Local name	Methyl methacrylate

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METHYL METHACRYLATE (80-62-6)	
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 ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
Lithuania - Occupational Exposure Limits	
Local name	Metilmetakrilatas
IPRV (OEL TWA)	208 mg/m ³
IPRV (OEL TWA) [ppm]	50 ppm
TPRV (OEL STEL)	416 mg/m ³
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)
Netherlands - Occupational Exposure Limits	
Local name	Methylmethacrylaat

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METHYL METHACRYLATE (80-62-6)	
TGG-8u (OEL TWA)	205 mg/m ³
TGG-8u (OEL TWA) [ppm]	50 ppm
TGG-15min (OEL STEL)	410 mg/m ³
TGG-15min (OEL STEL) [ppm]	100 ppm
Regulatory reference	Arbeidsomstandighedenregeling 2023
Poland - Occupational Exposure Limits	
Local name	Metakrylan metylu
NDS (OEL TWA)	100 mg/m ³
NDSch (OEL STEL)	300 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286 wraz z późn. zm.
Portugal - Occupational Exposure Limits	
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
Romania - Occupational Exposure Limits	
Local name	Metacrilat de metil/Metil 2-metilpropenoat
OEL TWA	205 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	410 mg/m ³
OEL STEL [ppm]	100 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Serbia - Occupational Exposure Limits	
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)
Slovakia - Occupational Exposure Limits	
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 ³
OEL TWA [ppm]	50 ppm
OEL STEL	420 mg/m ³
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 2023. INSHT
Sweden - Occupational Exposure Limits	
Local name	Metylmetakrylat
NGV (OEL TWA)	200 mg/m ³
NGV (OEL TWA) [ppm]	50 ppm
KTV (OEL STEL)	400 mg/m ³
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 ³
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	416 mg/m ³
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 ³
Grenseverdi (OEL TWA) [2]	25 ppm
Korttidsverdi (OEL STEL)	400 mg/m ³
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; 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 ³
MAK (OEL TWA) [2]	50 ppm
KZGW (OEL STEL)	420 mg/m ³
KZGW (OEL STEL) [ppm]	100 ppm
Critical toxicity	Poumons, VRS, Yeux / Lunge, OAW, Auge
Notation	S, SS _C / S, SS _C
Remark	INRS, NIOSH
Regulatory reference	www.suva.ch, 01.01.2023
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 2023
ROSIN (8050-09-7)	
Croatia - Occupational Exposure Limits	
Local name	Rosin (dim); kolofonij
GVI (OEL TWA) [1]	0,05 mg/m ³
KGVI (OEL STEL)	0,15 mg/m ³
Remark	Alergen koža (tvar koja može izazvati alergijsku reakciju na koži (H317))

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ROSIN (8050-09-7)	
Regulatory reference	Pravidník 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 ³ (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 ³
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 ³
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 ³
WEL STEL (OEL STEL)	0,15 mg/m ³
Remark	Sen (Capable of causing occupational asthma)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Switzerland - Occupational Exposure Limits	
Local name	Colophane / Colophonium
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

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ROSIN (8050-09-7)	
ACGIH OEL TWA	0,001 mg/m ³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: Asthma; resp & eye irr; dermal & resp sens. Notations: DSEN; RSEN
Regulatory reference	ACGIH 2022
2-METHYLPROPENOIC ACID (79-41-4)	
Belgium - Occupational Exposure Limits	
Local name	Acide méthacrylique # Methacrylzuur
OEL TWA	71 mg/m ³
OEL TWA [ppm]	20 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
Bulgaria - Occupational Exposure Limits	
Local name	Метакрилова киселина
OEL TWA	70 mg/m ³
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	Metakrilna kiselina; 2-metil-propenonska kiselina
GVI (OEL TWA) [1]	72 mg/m ³
GVI (OEL TWA) [2]	20 ppm
KGVI (OEL STEL)	143 mg/m ³
KGVI (OEL STEL) [ppm]	40 ppm
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
Denmark - Occupational Exposure Limits	
Local name	Methacrylsyre
OEL TWA [1]	70 mg/m ³
OEL TWA [2]	20 ppm
Regulatory reference	BEK nr 1054 af 28/06/2022
Estonia - Occupational Exposure Limits	
Local name	Metakrüülhape (2-metüülpropeenhape)
OEL TWA	70 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	100 mg/m ³
OEL STEL [ppm]	30 ppm
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 15.05.2021, 1)
Finland - Occupational Exposure Limits	
Local name	Metakryylihapo
HTP (OEL TWA) [1]	71 mg/m ³
HTP (OEL TWA) [2]	20 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)

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2-METHYLPROPENOIC ACID (79-41-4)	
France - Occupational Exposure Limits	
Local name	Acide méthacrylique
VME (OEL TWA)	70 mg/m ³
VME (OEL TWA) [ppm]	20 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Methacrylsäure
AGW (OEL TWA) [1]	180 mg/m ³
AGW (OEL TWA) [2]	50 ppm
Peak exposure limitation factor	2(I)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
Local name	Μεθακρυλικό οξύ
OEL TWA	70 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	140 mg/m ³
OEL STEL [ppm]	40 ppm
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Ireland - Occupational Exposure Limits	
Local name	Methacrylic acid
OEL TWA [1]	70 mg/m ³
OEL TWA [2]	20 ppm
OEL STEL	140 mg/m ³
OEL STEL [ppm]	40 ppm
Regulatory reference	Chemical Agents Code of Practice 2021
Latvia - Occupational Exposure Limits	
Local name	Metakrilskābe (2-metilpropēnskābe)
OEL TWA	10 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
Lithuania - Occupational Exposure Limits	
Local name	Metakrilo rūgštis
IPRV (OEL TWA)	70 mg/m ³
IPRV (OEL TWA) [ppm]	20 ppm
TPRV (OEL STEL)	100 mg/m ³

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2-METHYLPROPENOIC ACID (79-41-4)	
TPRV (OEL STEL) [ppm]	30 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Portugal - Occupational Exposure Limits	
Local name	Ácido metacrílico
OEL TWA [ppm]	20 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Acid metacrilic
OEL TWA	30 mg/m ³
OEL TWA [ppm]	8,5 ppm
OEL STEL	45 mg/m ³
OEL STEL [ppm]	13 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Slovenia - Occupational Exposure Limits	
Local name	metakrilna kislina
OEL TWA	180 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	360 mg/m ³
OEL STEL [ppm]	100 ppm
Remark	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
Spain - Occupational Exposure Limits	
Local name	Ácido metacrílico
VLA-ED (OEL TWA) [1]	72 mg/m ³
VLA-ED (OEL TWA) [2]	20 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT
Sweden - Occupational Exposure Limits	
Local name	Metakrylsyra
NGV (OEL TWA)	70 mg/m ³
NGV (OEL TWA) [ppm]	20 ppm
KTV (OEL STEL)	100 mg/m ³
KTV (OEL STEL) [ppm]	30 ppm
Remark	V (Vägleddande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
Local name	Methacrylic acid
WEL TWA (OEL TWA) [1]	72 mg/m ³
WEL TWA (OEL TWA) [2]	20 ppm

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2-METHYLPROPENOIC ACID (79-41-4)	
WEL STEL (OEL STEL)	143 mg/m ³
WEL STEL (OEL STEL) [ppm]	40 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Metakrýlsýra
OEL TWA	70 mg/m ³
OEL TWA [ppm]	20 ppm
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Norway - Occupational Exposure Limits	
Local name	Metakrýlsyre
Grenseverdi (OEL TWA) [1]	70 mg/m ³
Grenseverdi (OEL TWA) [2]	20 ppm
Regulatory reference	FOR-2021-06-28-2248
Switzerland - Occupational Exposure Limits	
Local name	Acide méthylacrylique / Methacrylsäure
MAK (OEL TWA) [1]	180 mg/m ³
MAK (OEL TWA) [2]	50 ppm
KZGW (OEL STEL)	360 mg/m ³
KZGW (OEL STEL) [ppm]	100 ppm
Critical toxicity	VR, Mcorp / AW, KG
Notation	SS _C / SS _C
Remark	OSHA
Regulatory reference	www.suva.ch, 01.01.2023
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
STYRENE (100-42-5)	
Belgium - Occupational Exposure Limits	
Local name	Styrène (monomère) # Styreen (monomeer)
OEL TWA	108 mg/m ³
OEL TWA [ppm]	25 ppm
OEL STEL	216 mg/m ³
OEL STEL [ppm]	50 ppm

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STYRENE (100-42-5)	
Remark	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
Bulgaria - Occupational Exposure Limits	
Local name	Стирен
OEL TWA	85 mg/m³
OEL STEL	215 mg/m³
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	Stiren
GVI (OEL TWA) [1]	430 mg/m³
GVI (OEL TWA) [2]	100 ppm
KGVI (OEL STEL)	1080 mg/m³
KGVI (OEL STEL) [ppm]	250 ppm
Remark	Koža (razvrstana kao tvar koja nadražuje kožu (H315))
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	Styren (Ethenylbenzen; Fenylethylen; Vinylbenzen)
PEL (OEL TWA)	100 mg/m³
PEL (OEL TWA) [ppm]	23 ppm
NPK-P (OEL C)	400 mg/m³
NPK-P (OEL C) [ppm]	92 ppm
Remark	B - u látky je zaveden biologický expoziční test (BET) v moči nebo krvi, I - dráždí sliznice (oči, dýchací cesty), respektive kůži, P - u látky nelze vyloučit závažné pozdní účinky (s větou H372, H373).
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Styren (Ethenylbenzen; Phenylethen; Vinylbenzen)
OEL C	105 mg/m³
OEL C [ppm]	25 ppm
Remark	H (betyder, at stoffet kan optages gennem huden); K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 1054 af 28/06/2022
Estonia - Occupational Exposure Limits	
Local name	Stüreen (fenüületeen, vinüülbenseen)
OEL TWA	90 mg/m³

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STYRENE (100-42-5)	
OEL TWA [ppm]	20 ppm
OEL STEL	200 mg/m ³
OEL STEL [ppm]	50 ppm
Remark	A (Naha kaudu kergesti imenduv aine)
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 15.05.2021, 1)
Finland - Occupational Exposure Limits	
Local name	Styreeni
HTP (OEL TWA) [1]	86 mg/m ³
HTP (OEL TWA) [2]	20 ppm
HTP (OEL STEL)	430 mg/m ³
HTP (OEL STEL) [ppm]	100 ppm
Remark	Melu
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Styrène
VME (OEL TWA)	100 mg/m ³
VME (OEL TWA) [ppm]	23,3 ppm
VLE (OEL C/STEL)	200 mg/m ³
VLE (OEL C/STEL) [ppm]	46,6 ppm
Remark	Valeurs réglementaires contraignantes; risque de pénétration percutanée; Ces valeurs sont assorties de la mention "bruit" indiquant la possibilité d'une atteinte auditive en cas de co-exposition au bruit.
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)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Styrol
AGW (OEL TWA) [1]	86 mg/m ³
AGW (OEL TWA) [2]	20 ppm
Peak exposure limitation factor	2(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
Local name	Στυρόλιο
OEL TWA	425 mg/m ³
OEL TWA [ppm]	100 ppm
OEL STEL	1050 mg/m ³
OEL STEL [ppm]	250 ppm

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STYRENE (100-42-5)	
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Hungary - Occupational Exposure Limits	
Local name	SZTIROL
AK (OEL TWA)	86 mg/m ³
CK (OEL STEL)	172 mg/m ³
Remark	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát), BEM (biológiai expozíciós mutató); R+T (Azok az anyagok, amelyek RÖVID és TARTÓS expozíciója is egészségkárosodást okoz)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
Local name	Styrene [Phenylethylene, Vinyl benzene]
OEL TWA [1]	85 mg/m ³
OEL TWA [2]	20 ppm
OEL STEL	170 mg/m ³
OEL STEL [ppm]	40 ppm
Regulatory reference	Chemical Agents Code of Practice 2021
Ireland - Biological limit values	
Local name	Styrene
BMGV	400 mg/g creatinine Parameter: mandelic acid plus phenylglyoxylic acid - Medium: urine - Sampling time: End of shift - Notations: Ns (Non-specific) 0,2 mg/l Parameter: styrene - Medium: venous blood - Sampling time: End of shift - Notations: Sq (Semi-quantitative)
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)
Latvia - Occupational Exposure Limits	
Local name	Stirols (vinilbenzols)
OEL TWA	10 mg/m ³
OEL STEL	30 mg/m ³
Remark	letekme uz dzirdi
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2015. gada 7. aprīlī noteikumiem Nr. 163)
Lithuania - Occupational Exposure Limits	
Local name	Stirenas (stirolas)
IPRV (OEL TWA)	90 mg/m ³
IPRV (OEL TWA) [ppm]	20 ppm
TPRV (OEL STEL)	200 mg/m ³
TPRV (OEL STEL) [ppm]	50 ppm
Remark	O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą); Projektuojant naujus objektus ar keičiant senus, reikia stengtis užtikrinti, kad stireno poveikis per darbo dieną būtų priimtinas laikantis IPRD 10 ppm koncentracijos.
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)

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STYRENE (100-42-5)	
Poland - Occupational Exposure Limits	
Local name	Styren
NDS (OEL TWA)	50 mg/m ³
NDSch (OEL STEL)	100 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Estireno, monómero
OEL TWA [ppm]	20 ppm
OEL STEL [ppm]	40 ppm
Remark	A4 (Agente não classificável como carcinogénico no Homem); IBE (Índice biológico de exposição)
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Stiren
OEL TWA	50 mg/m ³
OEL TWA [ppm]	12 ppm
OEL STEL	150 mg/m ³
OEL STEL [ppm]	35 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Slovakia - Occupational Exposure Limits	
Local name	Styrén
NPHV (OEL TWA) [1]	90 mg/m ³
NPHV (OEL TWA) [2]	20 ppm
NPHV (OEL STEL)	200 mg/m ³
NPHV (OEL STEL) [ppm]	50 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	stiren
OEL TWA	86 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	172 mg/m ³
OEL STEL [ppm]	40 ppm
Remark	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biološka mejna vrednost)
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
Spain - Occupational Exposure Limits	
Local name	Estireno
VLA-ED (OEL TWA) [1]	86 mg/m ³
VLA-ED (OEL TWA) [2]	20 ppm
VLA-EC (OEL STEL)	172 mg/m ³

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STYRENE (100-42-5)	
VLA-EC (OEL STEL) [ppm]	40 ppm
Remark	VLB® (Agente químico que tiene Valor Límite Biológico), ae (Alterador endocrino. Hay una serie de sustancias utilizadas en la industria, la agricultura y los bienes de consumo de las que se sospecha que interfieren con los sistemas endocrinos de los seres humanos y de los animales y que son causantes de perjuicios para la salud como el cáncer, alteraciones del comportamiento y anomalías en la reproducción. Tales sustancias se denominan "alteradores endocrinos". [Aplicación de la estrategia comunitaria en materia de alteradores endocrinos-sustancias de las que se sospecha interfieren en los sistemas hormonales de seres humanos y animales-COM (1999) 706. Comisión de las Comunidades Europeas, COM (2001) 262 final, Bruselas 14.06.2001]. En el caso del ser humano, algunas vías posibles de exposición a alteradores endocrinos son la exposición directa en el lugar de trabajo o a través de productos de consumo como alimentos, ciertos plásticos, pinturas, detergentes y cosméticos, o indirecta a través del medio ambiente (aire, agua y suelo). [Estrategia comunitaria en materia de alteradores endocrinos (sustancias de las que se sospecha interfieren en los sistemas hormonales de seres humanos y animales). Comisión de las Comunidades Europeas, COM (1999) 706 final, Bruselas 17.12.1999]. Los valores límite asignados a estos agentes no se han establecido para prevenir los posibles efectos de alteración endocrina, lo cual justifica una vigilancia adecuada de la salud).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT
Sweden - Occupational Exposure Limits	
Local name	Styren
NGV (OEL TWA)	43 mg/m³
NGV (OEL TWA) [ppm]	10 ppm
KTV (OEL STEL)	86 mg/m³
KTV (OEL STEL) [ppm]	20 ppm
Remark	B (Ämnet kan orsaka hörselskada. Exponering för ämnet nära det befintliga yrkeshygieniska gränsvärdet och vid samtidig exponering för buller nära insatsvärdet 80 dB kan orsaka hörselskada); H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga); V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
Local name	Styrene
WEL TWA (OEL TWA) [1]	430 mg/m³
WEL TWA (OEL TWA) [2]	100 ppm
WEL STEL (OEL STEL)	1080 mg/m³
WEL STEL (OEL STEL) [ppm]	250 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Stýren (etenýlbensen, fenýleten, vínýlbensen)
OEL STEL	105 mg/m³
OEL STEL [ppm]	25 ppm
Remark	H (efnið getur auðveldlega borist inn í líkamann gegnum húð)
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)

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STYRENE (100-42-5)

Norway - Occupational Exposure Limits

Local name	Styren (Vinylbenzen)
Grenseverdi (OEL TWA) [1]	105 mg/m ³
Grenseverdi (OEL TWA) [2]	25 ppm
Remark	M: Kjemikalier som skal betraktes som mutagene.
Regulatory reference	FOR-2021-06-28-2248

Switzerland - Occupational Exposure Limits

Local name	Styrène / Styrol
MAK (OEL TWA) [1]	85 mg/m ³
MAK (OEL TWA) [2]	20 ppm
KZGW (OEL STEL)	170 mg/m ³
KZGW (OEL STEL) [ppm]	40 ppm
Critical toxicity	VRS, Yeux, SN / OAW, Auge, NS
Notation	SS _C , O ^B , B / SS _C , O ^L , B
Remark	HSE, NIOSH, DFG, OSHA
Regulatory reference	www.suva.ch, 01.01.2023

Switzerland - BAT

Local name	Styrène / Styrol
BAT	600 mg/g creatinine (Paramètre biologique: Acide mandélique + acide phénylglyoxylique; Substrat d'examen: Urine; Moment du prélèvement: Fin de l'exposition, de la période de travail.) / (Biologischer Parameter: Mandelsäure + Phenylglyoxylsäure; Untersuchungsmaterial: Urin; Probennahmezeitpunkt: Expositionsende, bzw. Schichtende.)
Remark	v. aussi éthylbenzène / s. auch Ethylbenzol
Regulatory reference	Ordonnance 832.30 (OPA), article 50 al. 3, www.suva.ch/valeurs-limites / Verordnung 832.30 (VUV), Art. 50 Abs. 3, www.suva.ch/grenzwerte

USA - ACGIH - Occupational Exposure Limits

Local name	Styrene
ACGIH OEL TWA [ppm]	10 ppm
ACGIH OEL STEL [ppm]	20 ppm
Remark (ACGIH)	TLV® Basis: CNS & hearing impair; URT irr; peripheral neuropathy; visual disorders. Notations: OTO; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2022

USA - ACGIH - Biological Exposure Indices

Local name	STYRENE
BEI	400 mg/g creatinine Parameter: Mandelic acid plus phenylglyoxylic acid - Medium: urine - Sampling time: End of shift - Notations: Ns 40 µg/l Parameter: Styrene - Medium: urine - Sampling time: End of shift
Regulatory reference	ACGIH 2022

8.1.2. Recommended monitoring procedures

No additional information available

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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:

Protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves					

8.2.2.3. Respiratory protection

Respiratory protection:

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

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Black.
Appearance	: Viscous liquid.
Odour	: Characteristic odour.
Odour threshold	: Not available
Melting point	: -48 °C Based on MMA
Freezing point	: Not available
Boiling point	: 100,5 °C Based on MMA
Flammability	: Not available
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 12 °C Setaflash method (Closed Cup)(uncured mixture)
Auto-ignition temperature	: 421 °C Based on MMA
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	: 1,02
Relative density	: Not available
Relative vapour density at 20°C	: Not 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

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.

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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

REACTIONMASS OF DIETHYLENEGLYCOL DIBENZOATE, DIPROPYLENE DIBENZOATE AND TRIETHYLENE GLYCOL DIBENZOATE

LD50 dermal > 2000 mg/kg

DIBENZOYL PEROXIDE (94-36-0)

LD50 oral rat > 5000 mg/kg bodyweight Animal: rat, Animal sex: male

METHYL METHACRYLATE (80-62-6)

LD50 oral rat > 5000 mg/kg

LD50 oral 29,8 mg/l 4hrs

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

ROSIN (8050-09-7)

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

TRIZINC BIS(ORTHOPHOSPHATE) (7779-90-0)

LD50 oral rat > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)

2-METHYLPROPENOIC ACID (79-41-4)

LD50 oral rat 1320 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)

LD50 dermal rabbit 500 – 1000 mg/kg bodyweight Animal: rabbit, Guideline: other:

LD50 dermal 500 – 1000 mg/kg

LC50 Inhalation - Rat 7,1 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

STYRENE (100-42-5)

LD50 oral > 6000 mg/kg bodyweight Animal: hamster, Syrian, Animal sex: male

LD50 dermal rat > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

LC50 Inhalation - Rat 11,8 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns.
pH: No data available.

2-METHYLPROPENOIC ACID (79-41-4)

pH 2 – 2,2 Temp.: 20 °C Concentration: (≈)100 g/L

Serious eye damage/irritation : Causes serious eye damage.
pH: No data available.

2-METHYLPROPENOIC ACID (79-41-4)

pH 2 – 2,2 Temp.: 20 °C Concentration: (≈)100 g/L

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Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

DIBENZOYL PEROXIDE (94-36-0)

IARC group 3 - Not classifiable

METHYL METHACRYLATE (80-62-6)

IARC group 3 - Not classifiable

STYRENE (100-42-5)

IARC group 2A - Probably carcinogenic to humans

Reproductive toxicity : Not classified

DIBENZOYL PEROXIDE (94-36-0)

NOAEL (animal/male, F0/P) 500 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

NOAEL (animal/female, F0/P) ≥ 1000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

STOT-single exposure : May cause respiratory irritation.

METHYL METHACRYLATE (80-62-6)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

TRIZINC BIS(ORTHOPHOSPHATE) (7779-90-0)

LOAEL (oral, rat, 90 days) 53,8 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

NOAEL (oral, rat, 90 days) 31,52 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

2-METHYLPROPENOIC ACID (79-41-4)

LOAEC (inhalation, rat, gas, 90 days) 350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Guideline: EPA OPPTS 870.3465 (90-Day Inhalation Toxicity), Guideline: other:

NOAEC (inhalation, rat, gas, 90 days) 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Guideline: EPA OPPTS 870.3465 (90-Day Inhalation Toxicity), Guideline: other:

STYRENE (100-42-5)

LOAEL (oral, rat, 90 days) 2000 mg/kg bodyweight Animal: rat

LOAEC (inhalation, rat, vapour, 90 days) 0,21 mg/l air Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight Animal: rat

NOAEL (subchronic, oral, animal/male, 90 days) 10 mg/kg bodyweight Animal: mouse, Animal sex: male

STOT-repeated exposure Causes damage to organs (hearing organs) through prolonged or repeated exposure.

Aspiration hazard : Not classified

METHYL METHACRYLATE (80-62-6)

Viscosity, kinematic 0,561 mm²/s

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2-METHYLPROPENOIC ACID (79-41-4)

Viscosity, kinematic	≈ 1,36 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)'
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STYRENE (100-42-5)

Viscosity, kinematic	0,77 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)' Remarks on result: 'other:'
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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) : Toxic to aquatic life with long lasting effects.

Not rapidly degradable

REACTIONMASS OF DIETHYLENEGLYCOL DIBENZOATE, DIPROPYLENE DIBENZOATE AND TRIETHYLENE GLYCOL DIBENZOATE

LC50 - Fish [1]	3,7 mg/l
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DIBENZOYL PEROXIDE (94-36-0)

LC50 - Fish [1]	0,0602 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
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EC50 - Crustacea [1]	0,11 mg/l Test organisms (species): Daphnia magna
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METHYL METHACRYLATE (80-62-6)

LC50 - Fish [1]	> 79 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
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EC50 - Crustacea [1]	69 mg/l Test organisms (species): Daphnia magna
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EC50 72h - Algae [1]	> 110 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
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LOEC (chronic)	68 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
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NOEC (chronic)	37 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
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NOEC chronic fish	9,4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'
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ROSIN (8050-09-7)

LC50 - Fish [1]	5,4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
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LC50 - Fish [2]	5,4 mg/l Test organisms (species):
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EC50 - Crustacea [1]	911 mg/l /48 h
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EC50 72h - Algae [1]	> 1000 mg/l
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NOEC (chronic)	1000 mg/l Pseudokirchneriella subcapitata (Green algae)
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2-METHYLPROPENOIC ACID (79-41-4)

LC50 - Fish [1]	85 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
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EC50 - Crustacea [1]	> 130 mg/l Test organisms (species): Daphnia magna
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2-METHYLPROPENOIC ACID (79-41-4)

EC50 - Other aquatic organisms [1]	> 130 mg/l
EC50 72h - Algae [1]	45 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	20 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC (chronic)	53 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	10 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'

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LC50 - Fish [1]	10 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	4,7 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	4,9 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	6,3 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	2,06 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	1,01 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

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

No additional information available

12.6. Endocrine disrupting properties

No additional information available

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

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SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 2924	UN 2924	UN 2924	UN 2924	UN 2924
14.2. UN proper shipping name				
FLAMMABLE LIQUID, CORROSIVE, N.O.S. (mixture containing: Methyl methacrylate; Methacrylic acid)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (mixture containing: Methyl methacrylate; Methacrylic acid ; DIBENZOYL PEROXIDE)	Flammable liquid, corrosive, n.o.s. (mixture containing: Methyl methacrylate; Methacrylic acid)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (mixture containing: Methyl methacrylate; Methacrylic acid)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (mixture containing: Methyl methacrylate; Methacrylic acid)
Transport document description				
UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (mixture containing: Methyl methacrylate; Methacrylic acid), 3 (8), II, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (mixture containing: Methyl methacrylate; Methacrylic acid ; DIBENZOYL PEROXIDE), 3 (8), II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 2924 Flammable liquid, corrosive, n.o.s. (mixture containing: Methyl methacrylate; Methacrylic acid), 3 (8), II, ENVIRONMENTALLY HAZARDOUS	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (mixture containing: Methyl methacrylate; Methacrylic acid), 3 (8), II, ENVIRONMENTALLY HAZARDOUS	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (mixture containing: Methyl methacrylate; Methacrylic acid), 3 (8), II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
3 (8)	3 (8)	3 (8)	3 (8)	3 (8)
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

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

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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
Equipment required (ADN) : PP, EP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 1

Rail transport

Classification code (RID) : FC
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

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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).
- Water hazard class (WGK) : WGK 3, Highly hazardous to water (Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV)).
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

- ABM category : Not determined
- 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 : STYRENE is listed

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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 : *.

Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
1.1	Trade name	Modified	
1.1	Name	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Hazard pictograms (CLP)	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	

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

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Abbreviations and acronyms:	
EN	European Standard
IARC	International Agency for Research on Cancer
IOELV	Indicative Occupational Exposure Limit Value
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. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), 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
EUH208	Contains DIBENZOYL PEROXIDE(94-36-0), METHYL METHACRYLATE(80-62-6), ROSIN(8050-09-7). May produce an allergic reaction.

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Full text of H- and EUH-statements:	
EUH210	Safety data sheet available on request.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H241	Heating may cause a fire or explosion.
H300	Fatal if swallowed.
H302	Harmful if swallowed.
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause 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.
Org. Perox. B	Organic Peroxides, Type B
Repr. 2	Reproductive toxicity, Category 2
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
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
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.