

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Horizon  
Type of product : adhesives  
Product group : Trade product

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

##### Relevant identified uses

Main use category : Adhesives, Sealants  
Industrial/Professional use spec : For professional use only  
Industrial  
Use of the substance/mixture : Adhesives, binding agents  
Function or use category : Adhesives, binding agents

#### 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

##### Authorised Representative

Authorised Rep Compliance Ltd.  
Ground Floor  
71 Lower Baggot Street  
D02 P593 Dublin  
Ireland  
[www.arccompliance.com](http://www.arccompliance.com)

#### 1.4. Emergency telephone number

Emergency number : 001- 813-248-0585 (International)  
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 2 H315  
Skin sensitisation, Category 1 H317  
Specific target organ toxicity – Single exposure, Category 3, H335  
Respiratory tract irritation  
Hazardous to the aquatic environment – Chronic Hazard, H411  
Category 2  
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) :



GHS02

GHS07

GHS09

Signal word (CLP) :

Danger

# Horizon

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Contains	: 2-(2H-BENZOTRIAZOL-2-YL)-P-CRESOL; BIS-(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL)SEBACATE; METHYL-(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE; 1,1,1-TRIMETHYLOLPROPANE TRI(3-MERCAPTOPROPIONATE); TRIMETHYLOLPROPANE TRIMETHYACRYLATE ESTERS; N-METHYL-N-HYDROXYETHYL-P-TOLUIDINE; Methyl Methacrylate; DIBENZOYL PEROXIDE
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. 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. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P273 - Avoid release to the environment. P280 - Wear protective clothing, eye protection, face protection. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
EUH-statements	: EUH210 - Safety data sheet available on request.

### 2.3. Other hazards

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

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	2-(2H-BENZOTRIAZOL-2-YL)-P-CRESOL (2440-22-4), A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates [CGL 384; TINUVIN 384] (127519-17-9)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	2-(2H-BENZOTRIAZOL-2-YL)-P-CRESOL (2440-22-4), A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates [CGL 384; TINUVIN 384] (127519-17-9)

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 substance(s) are 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

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methyl Methacrylate substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK); 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	$\geq 50 - < 75$	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
DIPROPYLENE GLYCOL DIBENZOATE	CAS-No.: 27138-31-4 EC-No.: 248-258-5	$\geq 2 - < 5$	Aquatic Chronic 2, H411
A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates [CGL 384; TINUVIN 384]	CAS-No.: 127519-17-9 EC-No.: 407-000-3 EC Index-No.: 607-281-00-4	$\geq 0,1 - < 5$	Aquatic Chronic 2, H411

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
BIS-(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL)SEBACATE	CAS-No.: 41556-26-7 EC-No.: 255-437-1	≥ 0,1 – < 2	Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
4-[4,6-Bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-1,3-benzenediol reactionproducts with 2-[(dodecyloxy)methyl]oxiraneand2-[(alkyl(C=10~16)oxy)methyl]oxirane(153519-44-9)	CAS-No.: 153519-44-9 EC-No.: 410-560-1	≥ 0,1 – < 1	Aquatic Acute 1, H400 Aquatic Chronic 4, H413
2-(2H-BENZOTRIAZOL-2-YL)-P-CRESOL	CAS-No.: 2440-22-4 EC-No.: 219-470-5 REACH-no: 01-2119583811-34	≥ 0,1 – < 1	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
TRIMETHYLOLPROPANE TRIMETHYACRYLATE ESTERS	CAS-No.: 3290-92-4 EC-No.: 221-950-4	≥ 0,1 – < 1	Acute Tox. 2 (Oral), H300 Aquatic Chronic 2, H411
METHYL-(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL)SEBACATE	CAS-No.: 82919-37-7 EC-No.: 280-060-4	≥ 0,1 – < 1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DIBENZOYL PEROXIDE substance with national workplace exposure limit(s) (BE, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, PT, SI, SK)	CAS-No.: 94-36-0 EC-No.: 202-327-6 EC Index-No.: 617-008-00-0 REACH-no: 01-2119511472-50	≥ 0,1 – < 1	Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
N-METHYL-N-HYDROXYETHYL-P-TOLUIDINE	CAS-No.: 2842-44-6 EC-No.: 220-638-5 REACH-no: 01-2110827830-56	≥ 0,1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335
1,1,1-TRIMETHYLOLPROPANE TRI(3-MERCAPTOPROPIONATE)	CAS-No.: 33007-83-9 EC-No.: 251-336-1 REACH-no: 01-2120770061-65	≥ 0,1	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

No additional information available

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

No additional information available

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

No additional information available

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

No additional information available

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 5.3. Advice for firefighters

No additional information available

## SECTION 6: Accidental release measures

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

No additional information available

### 6.2. Environmental precautions

No additional information available

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

No additional information available

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

No additional information available

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

#### Switzerland

Storage class (LK) : LK 3 - Flammable liquids

### 7.3. Specific end use(s)

Adhesives, Sealants.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

Methyl Methacrylate (80-62-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Methyl methacrylate
IOEL TWA	50 ppm
IOEL STEL	100 ppm
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	210 mg/m <sup>3</sup>
	50 ppm
MAK (OEL STEL)	420 mg/m <sup>3</sup>
	100 ppm
Belgium - Occupational Exposure Limits	
Local name	Méthacrylate de méthyle # Methylmethacrylaat

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Methyl Methacrylate (80-62-6)	
OEL TWA	208 mg/m <sup>3</sup>
	50 ppm
OEL STEL	416 mg/m <sup>3</sup>
	100 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
Bulgaria - Occupational Exposure Limits	
Local name	Метилметакрилат
OEL TWA	50 ppm
OEL STEL	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. 28 от 2024 г., в сила от 05.04.2024 г.)
Croatia - Occupational Exposure Limits	
Local name	Metil-metakrilat; metil-2-metil-prop-2-enoat; metil-2-metil-propenoat
GVI (OEL TWA)	50 ppm
KGVI (OEL STEL)	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 148/2023)
Czech Republic - Occupational Exposure Limits	
Local name	Methylmetakrylát (Methylester 2-methyl-2-propenové kyseliny)
PEL (OEL TWA)	50 mg/m <sup>3</sup>
	12 ppm
NPK-P (OEL C)	150 mg/m <sup>3</sup>
	36 ppm
Remark	I - dráždí sliznice (oči, dýchací cesty), resp. kůži, S - látka má senzibilizující účinek (s větou H317, H334).
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 20/2025 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Methylmethacrylat (Methacrylsyremethylester; 2-Methylpropensyremethylester)
OEL TWA	102 mg/m <sup>3</sup>
	25 ppm
OEL STEL	100 ppm
Remark	E (betyder, at stoffet har en EU-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 1619 af 19/12/2024
Estonia - Occupational Exposure Limits	
Local name	Metüülmetakrülaat (metüül-2-metüülpropenaat)

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>Methyl Methacrylate (80-62-6)</b>	
OEL TWA	50 ppm
OEL STEL	100 ppm
Remark	S (Sensibiliseeriv aine)
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 02.04.2024, 13)
<b>Finland - Occupational Exposure Limits</b>	
Local name	Metyylimetakrylaatti
HTP (OEL TWA)	42 mg/m <sup>3</sup> 10 ppm
HTP (OEL STEL)	210 mg/m <sup>3</sup> 50 ppm
Regulatory reference	HTP-ARVOT 2025 (Sosiaali- ja terveystministeriö)
<b>France - Occupational Exposure Limits</b>	
Local name	Méthacrylate de méthyle
VLEP 8h (OEL TWA)	205 mg/m <sup>3</sup> 50 ppm
VLEP CT (OEL STEL)	410 mg/m <sup>3</sup> 100 ppm
Remark	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849; Décret n° 2024-307)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Local name	Methyl-methacrylat
AGW (OEL TWA)	210 mg/m <sup>3</sup> 50 ppm
Peak exposure limitation factor	2(l)
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
<b>Gibraltar - Occupational Exposure Limits</b>	
Local name	Methyl methacrylate
OEL TWA	50 ppm
OEL STEL	100 ppm
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)
<b>Greece - Occupational Exposure Limits</b>	
Local name	Μεθακρυλικός μεθυλεστέρας
OEL TWA	100 ppm
OEL STEL	200 ppm

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Methyl Methacrylate (80-62-6)	
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> 50 ppm
CK (OEL STEL)	415 mg/m <sup>3</sup> 100 ppm
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
OEL TWA	50 ppm
OEL STEL	100 ppm
Remark	IOELV (Indicative Occupational Exposure Limit Values), Sens (In the workplace, respiratory or dermal exposures to sensitising agents may occur. Sensitisers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The “sens” notation alone does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitisers 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 2024
Italy - Occupational Exposure Limits	
Local name	Metacrilato di metile
OEL TWA	50 ppm
OEL STEL	100 ppm
Regulatory reference	Allegato XXXVIII del Decreto Legislativo 4 settembre 2024, n. 135
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 (Grozījumi Ministru kabineta 2024. gada 26. martā noteikumiem Nr. 191).
Lithuania - Occupational Exposure Limits	
Local name	Metilmetakrilatas
IPRV (OEL TWA)	208 mg/m <sup>3</sup> 50 ppm
TPRV (OEL STEL)	416 mg/m <sup>3</sup>

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Methyl Methacrylate (80-62-6)	
	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	50 ppm
OEL STEL	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	50 ppm
OEL STEL	100 ppm
Regulatory reference	S.L. 424.24 - Chemical Agents at Work Regulations (L.N. 356 of 2021) # L.S. 424.24 - Regolamenti dwar Aġenti Kimiċi fuq il-Post tax-Xogħol (A.L. 356 tal-2021)
Netherlands - Occupational Exposure Limits	
Local name	Methylmethacrylaat
TGG-8u (OEL TWA)	205 mg/m <sup>3</sup>
	50 ppm
TGG-15min (OEL STEL)	410 mg/m <sup>3</sup>
	100 ppm
Regulatory reference	Arbeidsomstandighedenregeling 2024
Poland - Occupational Exposure Limits	
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. 2024 poz. 1017 wraz z późn. zm.
Portugal - Occupational Exposure Limits	
Local name	Metacrilato de metilo
OEL TWA	50 ppm
OEL STEL	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 <sup>3</sup>
	50 ppm
OEL STEL	410 mg/m <sup>3</sup>
	100 ppm

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Methyl Methacrylate (80-62-6)	
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 179/2024)
Serbia - Occupational Exposure Limits	
Local name	метил-метакрилат
OEL TWA	50 ppm
OEL STEL	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)	50 ppm
NPHV (OEL STEL)	100 ppm
Remark	S – znamená, že faktor môže spôsobiť senzibilizáciu
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (122/2024 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	metilmetakrilat (metil 2-metilprop-2-enoat; metil 2-metilpropenoat)
OEL TWA	210 mg/m <sup>3</sup> 50 ppm
OEL STEL	420 mg/m <sup>3</sup> 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. 26/2025 z dne 18.4.2025 - Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
Spain - Occupational Exposure Limits	
Local name	Metacrilato de metilo
VLA-ED (OEL TWA)	50 ppm
VLA-EC (OEL STEL)	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 2025. INSHT
Sweden - Occupational Exposure Limits	
Local name	Metylmetakrylat
NGV (OEL TWA)	200 mg/m <sup>3</sup> 50 ppm
KGV (OEL STEL)	400 mg/m <sup>3</sup> 100 ppm
Remark	M (Medicinska kontroller kan krävas för hantering av ämnet); SH (Sensibiliserande ämnen som kan ge allergi eller annan överkänslighet i huden); 23 (Ämnet har ett indikativt EU-gränsvärde)

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Methyl Methacrylate (80-62-6)	
Regulatory reference	Arbetsmiljöverkets föreskrifter och allmänna råd (AFS 2023:14) om gränsvärden för luftvägsexponering i arbetsmiljön
United Kingdom - Occupational Exposure Limits	
Local name	Methyl methacrylate
WEL TWA (OEL TWA)	208 mg/m <sup>3</sup> 50 ppm
WEL STEL (OEL STEL)	416 mg/m <sup>3</sup> 100 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Metýlmetakrylát (metakrylsýrumetýlester, 2-metýlprópensýrumetýlester)
OEL TWA	50 ppm
OEL STEL	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	Metýlmetakrylat (Metakrylsyremetylester)
Grenseverdi (OEL TWA)	100 mg/m <sup>3</sup> 25 ppm
Korttidsverdi (OEL STEL)	400 mg/m <sup>3</sup> 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-2024-04-05-581
Switzerland - Occupational Exposure Limits	
Local name	Méthacrylate de méthyle / Methylmethacrylat [Methacrylsäuremethylester]
MAK (OEL TWA)	210 mg/m <sup>3</sup> 50 ppm
KZGW (OEL STEL)	420 mg/m <sup>3</sup> 100 ppm
Notation	S, SS <sub>C</sub> / S, SS <sub>C</sub>
Remark	INRS, NIOSH
Regulatory reference	www.suva.ch, 01.01.2025
USA - ACGIH - Occupational Exposure Limits	
Local name	Methyl methacrylate
ACGIH® TLV® TWA	205 mg/m <sup>3</sup> 50 ppm
ACGIH® TLV® STEL	410 mg/m <sup>3</sup> 100 ppm

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<b>Methyl Methacrylate (80-62-6)</b>	
Remark (ACGIH®)	TLV® Basis: URT & Eye irr; Body weight; Pulm edema. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
<b>DIBENZOYL PEROXIDE (94-36-0)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Peroxyde de dibenzoyle # Dibenzoylperoxide
OEL TWA	5 mg/m <sup>3</sup>
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
<b>Croatia - Occupational Exposure Limits</b>	
Local name	Dibenzoil peroksid; benzoil peroksid
GVI (OEL TWA)	5 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 148/2023)
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Benzoylperoxid (Dibenzoylperoxid)
PEL (OEL TWA)	5 mg/m <sup>3</sup>
NPK-P (OEL C)	10 mg/m <sup>3</sup>
Remark	I - dráždí sliznice (oči, dýchací cesty), resp. kůže, S - látka má senzibilizující účinek (s větou H317, H334).
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 20/2025 Sb.)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Benzoylperoxid (Dibenzoylperoxid)
OEL TWA	5 mg/m <sup>3</sup>
Regulatory reference	BEK nr 1619 af 19/12/2024
<b>Estonia - Occupational Exposure Limits</b>	
Local name	Bensoüülperoksiid
OEL TWA	5 mg/m <sup>3</sup>
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 02.04.2024, 13)
<b>Finland - Occupational Exposure Limits</b>	
Local name	Bentsoyyliperoksidi
HTP (OEL TWA)	5 mg/m <sup>3</sup>
HTP (OEL STEL)	10 mg/m <sup>3</sup>
Regulatory reference	HTP-ARVOT 2025 (Sosiaali- ja terveystieteiden ministeriö)
<b>France - Occupational Exposure Limits</b>	
Local name	Peroxyde de dibenzoyle
VLEP 8h (OEL TWA)	5 mg/m <sup>3</sup>
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)

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DIBENZOYL PEROXIDE (94-36-0)	
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Local name	Dibenzoylperoxid
AGW (OEL TWA)	4 mg/m <sup>3</sup> (E) 1 mg/m <sup>3</sup> (A)
Peak exposure limitation factor	(A): 4(II);(E): 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
<b>Greece - Occupational Exposure Limits</b>	
Local name	Υπεροξειδίο του βενζοϋλίου
OEL TWA	5 mg/m <sup>3</sup>
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
<b>Hungary - Occupational Exposure Limits</b>	
Local name	DIBENZOIL-PEROXID
AK (OEL TWA)	5 mg/m <sup>3</sup>
CK (OEL STEL)	5 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 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
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Dibenzoyl peroxide [Benzoyl peroxide]
OEL TWA	5 mg/m <sup>3</sup>
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values), Sens (In the workplace, respiratory or dermal exposures to sensitising agents may occur. Sensitisers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The “sens” notation alone does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitisers 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 2024
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Peróxido de benzoílo
OEL TWA	5 mg/m <sup>3</sup>
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014

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DIBENZOYL PEROXIDE (94-36-0)	
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Dibenzoyldioxidán (dibenzoylperoxid)
NPHV (OEL TWA)	5 mg/m <sup>3</sup>
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (122/2024 Z. z.)
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	dibenzoilperoksid (benzoilperoksid)
OEL TWA	5 mg/m <sup>3</sup>
OEL STEL	5 mg/m <sup>3</sup>
Regulatory reference	Uradni list RS, št. 26/2025 z dne 18.4.2025 - Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
<b>Spain - Occupational Exposure Limits</b>	
Local name	Peróxido de benzoilo
VLA-ED (OEL TWA)	5 mg/m <sup>3</sup>
Remark	Sen (Sensibilizante).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2025. INSHT
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Dibenzoyl peroxide
WEL TWA (OEL TWA)	5 mg/m <sup>3</sup>
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>Iceland - Occupational Exposure Limits</b>	
Local name	Díbensóýlperoxíð (bensóýlperoxíð)
OEL TWA	5 mg/m <sup>3</sup>
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
<b>Norway - Occupational Exposure Limits</b>	
Local name	Benzoylperoksid (Dibenzoylperoksid)
Grenseverdi (OEL TWA)	5 mg/m <sup>3</sup>
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-2024-04-05-581
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	Peroxyde de benzoyle / Dibenzoylperoxid [Benzoylperoxid]
MAK (OEL TWA)	5 mg/m <sup>3</sup> (i) / (e)
KZGW (OEL STEL)	5 mg/m <sup>3</sup> (i) / (e)
Remark	NIOSH
Regulatory reference	www.suva.ch, 01.01.2025
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Benzoyl peroxide
ACGIH® TLV® TWA	5 mg/m <sup>3</sup>
Remark (ACGIH®)	TLV® Basis: URT & skin irr. Notations: A4 (Not classifiable as a Human Carcinogen)

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### DIBENZOYL PEROXIDE (94-36-0)

Regulatory reference	ACGIH 2025
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#### 8.2. Exposure controls

No additional information available

### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Various colours.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: 100,5 °C Based on Methyl Methacrylate
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 12 °C Based on Methyl Methacrylate
Auto-ignition temperature	: 425 °C Based on Methyl Methacrylate
Decomposition temperature	: Not available
pH	: 3,9
pH solution concentration	: 50 % Water solution
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	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

No additional information available

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

No additional information available

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### 10.6. Hazardous decomposition products

No additional information available

## 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

#### 2-(2H-BENZOTRIAZOL-2-YL)-P-CRESOL (2440-22-4)

LD50 oral rat	> 10000 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: other:US AFDO (1959) Appraisal of the Safety of Chemicals in Food, Drugs and Cosmetics
LC50 Inhalation - Rat	> 0,59 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

#### BIS-(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL)SEBACATE (41556-26-7)

LD50 oral rat	2369 – 3920 mg/kg Source: International Uniform Chemical Information Database
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#### A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates [CGL 384; TINUVIN 384] (127519-17-9)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5,8 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

#### TRIMETHYLOLPROPANE TRIMETHYACRYLATE ESTERS (3290-92-4)

LD50 oral rat	5,66 mg/kg Source: National Library of Medicine
LD50 dermal rabbit	16000 mg/kg Source: National Library of Medicine

#### N-METHYL-N-HYDROXYETHYL-P-TOLUIDINE (2842-44-6)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LD50 dermal	> 2000 mg/kg

#### Methyl Methacrylate (80-62-6)

LD50 oral rat	7900 mg/kg Source: NITE, HSDB, ChemIDplus
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)
LC50 Inhalation - Rat [ppm]	7093 ppm Source: HSDB

#### 4-[4,6-Bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-1,3-benzenediol reaction products with 2-[[dodecyloxy)methyl]oxirane and 2-[[alkyl(C=10~16)oxy)methyl]oxirane (153519-44-9) (153519-44-9)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

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<b>DIPROPYLENE GLYCOL DIBENZOATE (27138-31-4)</b>	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:
LC50 Inhalation - Rat	> 200 mg/l air Animal: rat, Remarks on results: other:
<b>DIBENZOYL PEROXIDE (94-36-0)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: male
Skin corrosion/irritation	: Causes skin irritation. pH: 3,9
<b>2-(2H-BENZOTRIAZOL-2-YL)-P-CRESOL (2440-22-4)</b>	
pH	6
Serious eye damage/irritation	: Not classified pH: 3,9
<b>2-(2H-BENZOTRIAZOL-2-YL)-P-CRESOL (2440-22-4)</b>	
pH	6
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>DIBENZOYL PEROXIDE (94-36-0)</b>	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
<b>TRIMETHYLOLPROPANE TRIMETHYACRYLATE ESTERS (3290-92-4)</b>	
NOAEL (animal/female, F0/P)	≥ 1000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study), Guideline: other:
<b>DIBENZOYL PEROXIDE (94-36-0)</b>	
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.
<b>N-METHYL-N-HYDROXYETHYL-P-TOLUIDINE (2842-44-6)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>Methyl Methacrylate (80-62-6)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
<b>TRIMETHYLOLPROPANE TRIMETHYACRYLATE ESTERS (3290-92-4)</b>	
LOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
LOAEL (dermal, rat/rabbit, 90 days)	300 mg/kg bodyweight Animal: rabbit

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TRIMETHYLOLPROPANE TRIMETHYACRYLATE ESTERS (3290-92-4)	
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	300 mg/kg bodyweight Animal: rabbit
4-[4,6-Bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-1,3-benzenediol reactionproducts with 2-[(dodecyloxy)methyl]oxiraneand2-[(alkyl(C=10~16)oxy)methyl]oxirane(153519-44-9) (153519-44-9)	
NOAEL (oral, rat, 90 days)	≈ 241 mg/kg bodyweight Animal: rat, Guideline: other:

Aspiration hazard : Not classified

TRIMETHYLOLPROPANE TRIMETHYACRYLATE ESTERS (3290-92-4)	
Viscosity, kinematic	61,425 mm <sup>2</sup> /s
Methyl Methacrylate (80-62-6)	
Viscosity, kinematic	0,561 mm <sup>2</sup> /s
4-[4,6-Bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-1,3-benzenediol reactionproducts with 2-[(dodecyloxy)methyl]oxiraneand2-[(alkyl(C=10~16)oxy)methyl]oxirane(153519-44-9) (153519-44-9)	
Viscosity, kinematic	747594,375 mm <sup>2</sup> /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) : Toxic to aquatic life with long lasting effects.

2-(2H-BENZOTRIAZOL-2-YL)-P-CRESOL (2440-22-4)	
LC50 - Fish [1]	> 0,17 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LOEC (chronic)	0,041 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0,013 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

BIS-(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL)SEBACATE (41556-26-7)	
LC50 - Fish [1]	0,97 mg/l Source: International Uniform Chemical Information Database
EC50 96h - Algae [1]	0,017 mg/l Source: Ecological Structure Activity Relationships

METHYL-(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE (82919-37-7)	
LC50 - Fish [1]	0,996 mg/l
EC50 96h - Algae [1]	0,615 mg/l Source: ECOSAR

A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates [CGL 384; TINUVIN 384] (127519-17-9)	
LC50 - Fish [1]	> 9,9 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	3,2 mg/l Test organisms (species): Daphnia magna

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<b>A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates [CGL 384; TINUVIN 384] (127519-17-9)</b>	
EC50 72h - Algae [1]	> 2 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	0,425 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>TRIMETHYLOLPROPANE TRIMETHYACRYLATE ESTERS (3290-92-4)</b>	
LC50 - Fish [1]	2 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 9,22 mg/l Test organisms (species): Daphnia magna
<b>N-METHYL-N-HYDROXYETHYL-P-TOLUIDINE (2842-44-6)</b>	
EC50 - Crustacea [1]	7,03 mg/l
LOEC (acute)	10 mg/l
NOEC chronic crustacea	4,6 mg/l
<b>Methyl Methacrylate (80-62-6)</b>	
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): Raphidocelis subcapitata (previous names: Pseudokirchneriella 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'
<b>4-[4,6-Bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-1,3-benzenediol reactionproducts with 2-[(dodecyloxy)methyl]oxiraneand2-[(alkyl(C=10~16)oxy)methyl]oxirane(153519-44-9) (153519-44-9)</b>	
LC50 - Fish [1]	> 2,8 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	> 0,2 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LOEC (chronic)	> 10 mg/l Test organisms (species): Daphnia magna Duration: '22 d'
NOEC (chronic)	≥ 10 mg/l Test organisms (species): Daphnia magna Duration: '22 d'
<b>DIPROPYLENE GLYCOL DIBENZOATE (27138-31-4)</b>	
LC50 - Fish [1]	3,7 mg/l Test organisms (species): Pimephales promelas
<b>DIBENZOYL PEROXIDE (94-36-0)</b>	
LC50 - Fish [1]	0,0602 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	0,11 mg/l Test organisms (species): Daphnia magna
<b>12.2. Persistence and degradability</b>	
<b>Horizon</b>	
Persistence and degradability	Not rapidly degradable
<b>2-(2H-BENZOTRIAZOL-2-YL)-P-CRESOL (2440-22-4)</b>	
Persistence and degradability	Not rapidly degradable

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<b>BIS-(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL)SEBACATE (41556-26-7)</b>	
Persistence and degradability	Not rapidly degradable
<b>METHYL-(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE (82919-37-7)</b>	
Persistence and degradability	Not rapidly degradable
<b>A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates [CGL 384; TINUVIN 384] (127519-17-9)</b>	
Persistence and degradability	Not rapidly degradable
<b>1,1,1-TRIMETHYLOLPROPANE TRI(3-MERCAPTOPROPIONATE) (33007-83-9)</b>	
Persistence and degradability	Not rapidly degradable
<b>TRIMETHYLOLPROPANE TRIMETHYACRYLATE ESTERS (3290-92-4)</b>	
Persistence and degradability	Not rapidly degradable
<b>N-METHYL-N-HYDROXYETHYL-P-TOLUIDINE (2842-44-6)</b>	
Persistence and degradability	Not rapidly degradable
<b>Methyl Methacrylate (80-62-6)</b>	
Persistence and degradability	Not rapidly degradable
<b>4-[4,6-Bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-1,3-benzenediol reactionproducts with 2-[(dodecyloxy)methyl]oxiraneand2-[(alkyl(C=10~16)oxy)methyl]oxirane(153519-44-9) (153519-44-9)</b>	
Persistence and degradability	Not rapidly degradable
<b>DIPROPYLENE GLYCOL DIBENZOATE (27138-31-4)</b>	
Persistence and degradability	Not rapidly degradable
<b>DIBENZOYL PEROXIDE (94-36-0)</b>	
Persistence and degradability	Not rapidly degradable
<b>12.3. Bioaccumulative potential</b>	
<b>BIS-(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL)SEBACATE (41556-26-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	0,37 Source: International Uniform ChemicalL Information Database
<b>TRIMETHYLOLPROPANE TRIMETHYACRYLATE ESTERS (3290-92-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	4,39 Source: National Library of Medicine
<b>Methyl Methacrylate (80-62-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	1,38 Source: HSDB
<b>4-[4,6-Bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-1,3-benzenediol reactionproducts with 2-[(dodecyloxy)methyl]oxiraneand2-[(alkyl(C=10~16)oxy)methyl]oxirane(153519-44-9) (153519-44-9)</b>	
Partition coefficient n-octanol/water (Log Pow)	11875 Source: ECHA
<b>12.4. Mobility in soil</b>	
<b>A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates [CGL 384; TINUVIN 384] (127519-17-9)</b>	
Mobility in soil	262500 Source: EPISUITE

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### 12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	2-(2H-BENZOTRIAZOL-2-YL)-P-CRESOL (2440-22-4), A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates [CGL 384; TINUVIN 384] (127519-17-9)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	2-(2H-BENZOTRIAZOL-2-YL)-P-CRESOL (2440-22-4), A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates [CGL 384; TINUVIN 384] (127519-17-9)

### 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

No additional information available

## 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 1133	UN 1133	UN 1133	UN 1133	UN 1133
<b>14.2. UN proper shipping name</b>				
ADHESIVES	ADHESIVES	Adhesives	ADHESIVES	ADHESIVES
<b>Transport document description</b>				
UN 1133 ADHESIVES, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1133 ADHESIVES, 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1133 Adhesives, 3, II, ENVIRONMENTALLY HAZARDOUS	UN 1133 ADHESIVES, 3, II, ENVIRONMENTALLY HAZARDOUS	UN 1133 ADHESIVES, 3, II, ENVIRONMENTALLY HAZARDOUS
<b>14.3. Transport hazard class(es)</b>				
3	3	3	3	3
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-E EmS-No. (Spillage): S-D	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes

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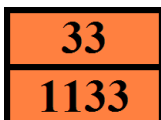
according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	IATA	ADN	RID
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: F1
Special provisions (ADR)	: 640D
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP8
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	:



Tunnel restriction code (ADR)	: D/E
EAC code	: •3YE

#### Transport by sea

Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP8
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility with water depends upon their composition.

#### Air transport

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L

#### Inland waterway transport

Classification code (ADN)	: F1
Special provisions (ADN)	: 640D
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1

#### Rail transport

Classification code (RID)	: F1
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Special provisions (RID)	: 640D
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP8
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

### 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

#### 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 (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

##### Explosives Precursors Regulation (EU 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 (EC 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)

#### National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### France

Occupational diseases	
Code	Description
RG 82	Conditions caused by methyl methacrylate

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### 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 (Classification according to AwSV, Annex 1).

### Netherlands

- ABM category : A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment
- SZW-lijst van kankerverwekkende stoffen : None of the components are listed
- SZW-lijst van mutagene stoffen : None of the components are 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 it.  
If an employee is pregnant or breastfeeding and the person in question uses or is exposed to this product at work, the employer must always carry out a risk assessment of the work. The assessment must both deal with the dangerousness of the impact and its strength and duration. The employer's decision that a pregnant or lactating woman can perform a specific work task must therefore be made in the context of her specific working conditions. See also WEA-Guideline A.1.8-7 on the working environment of pregnant and breastfeeding workers.

### Poland

- Polish National Regulations : Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).  
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).  
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).  
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).  
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).  
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).  
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)  
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).  
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).  
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)  
Regulation of the Minister of Health of 25 August 2015 on the method of marking places, pipelines, and containers and tanks used for storing or containing hazardous substances or hazardous mixtures (J.o.L. 2015, item 1368 as amended)

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### Spain

Royal Decree 665/1997

: Is not subject to the Royal Decree 665/1997

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

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

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
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
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Org. Perox. B	Organic Peroxides, Type B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H241	Heating may cause a fire or explosion.
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
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.
H413	May cause long lasting harmful effects to aquatic life.
EUH210	Safety data sheet available on request.

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.