

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

Product form : Mixture
Product name : Lockfast R48
UFI : D420-H0XU-000W-XWQ2
Type of product : adhesives
Product group : Adhesives, sealants

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Intended for general public
Main use category : Industrial use, Professional use, Consumer use
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

Cyanotec Ltd
Bay 2 Building 62, Third Avenue,
Pensnett Trading Estate,
Kingswinford,
West Midlands DY6 7XT United Kingdom

Tel: +44 (0)1384 294753
Email: sales@cyanotec.com

1.4. Emergency telephone number

Emergency number : +44 (0) 1384 294753 (Monday - Thursday 9:00 to 17:00)
IN CASE OF TOXIC OR TRANSPORT EMERGENCY:
National Chemical Emergency Centre: Telephone 01865 407333

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals

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

Skin corrosion/irritation, Category 2 H315
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
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.

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2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS07

Signal word (CLP) :

Danger

Contains

HYDROQUINONE MONOMETHYL ETHER, 2,2'(4-METHYLPHENYLIMINO)DIETHANOL, 1-ACETYL-2-PHENYLHYDRAZINE, ACRYLIC ACID, CUMENE HYDROPEROXIDE, 2,2-BIS(ACRYLOYLOXYMETHYL)BUTYL ACRYLATE

Hazard statements (CLP) :

H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.

Precautionary statements (CLP) :

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label).

2.3. Other hazards

Other hazards which do not result in classification : None under normal conditions.

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]
2,2-BIS(ACRYLOYLOXYMETHYL)BUTYL ACRYLATE	CAS-No.: 15625-89-5 EC-No.: 239-701-3 EC Index-No.: 607-111-00-9	1 – 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
ACRYLIC ACID substance with a Community workplace exposure limit	CAS-No.: 79-10-7 EC-No.: 201-177-9 EC Index-No.: 607-061-00-8 REACH-no: 01-2119452449-31	1 – 5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Aquatic Acute 1, H400

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
CUMENE HYDROPEROXIDE	CAS-No.: 80-15-9 EC-No.: 201-254-7 EC Index-No.: 617-002-00-8 REACH-no: 01-2119475796-19	0.5 – 2.5	Org. Perox. E, H242 Acute Tox. 3 (Inhalation), H331 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Skin Corr. 1B, H314 Aquatic Chronic 2, H411
HYDROQUINONE MONOMETHYL ETHER	CAS-No.: 150-76-5 EC-No.: 205-769-8 EC Index-No.: 604-044-00-7 REACH-no: 01-2119541813-40	0.1 – 1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317
N,N-DIMETHYL-P-TOLUIDINE	CAS-No.: 99-97-8 EC-No.: 202-805-4 EC Index-No.: 612-056-00-9 REACH-no: 01-2119937766-23	0.1 – 1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Chronic 3, H412
2,2'(4-METHYLPHENYLIMINO)DIETHANOL	CAS-No.: 3077-12-1 EC-No.: 221-359-1	0.1 – 1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
1-ACETYL-2-PHENYLHYDRAZINE	CAS-No.: 114-83-0	0.1 – 1	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335

Specific concentration limits:

Name	Product identifier	Specific concentration limits
ACRYLIC ACID	CAS-No.: 79-10-7 EC-No.: 201-177-9 EC Index-No.: 607-061-00-8 REACH-no: 01-2119452449-31	(1 ≤C ≤ 100) STOT SE 3, H335
CUMENE HYDROPEROXIDE	CAS-No.: 80-15-9 EC-No.: 201-254-7 EC Index-No.: 617-002-00-8 REACH-no: 01-2119475796-19	(0 <C < 10) STOT SE 3, H335 (1 ≤C < 3) Eye Irrit. 2, H319 (3 ≤C < 10) Skin Irrit. 2, H315 (3 ≤C < 10) Eye Dam. 1, H318 (10 ≤C ≤ 100) Skin Corr. 1B, H314

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	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a water jet since it may cause the fire to spread.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Clean up any spills as soon as possible, using an absorbent material to collect it.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.
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Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Incompatible products : Oxidizing agent.

7.3. Specific end use(s)

adhesives.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

HYDROQUINONE MONOMETHYL ETHER (150-76-5)	
Belgium - Occupational Exposure Limits	
Local name	4-Méthoxyphénol # 4-Methoxyfenol
OEL TWA	5 mg/m ³
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
Denmark - Occupational Exposure Limits	
Local name	4-Methoxyphenol (4-Hydroxyanisol)
OEL TWA [1]	5 mg/m ³
Regulatory reference	BEK nr 2203 af 29. november 2021
France - Occupational Exposure Limits	
Local name	4-Méthoxyphénol
VME (OEL TWA)	5 mg/m ³
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Greece - Occupational Exposure Limits	
Local name	Μεθοξυφαινόλη, 4-
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
Ireland - Occupational Exposure Limits	
Local name	4-Methoxyphenol [Mequinol]
OEL TWA [1]	5 mg/m ³
Regulatory reference	Chemical Agents Code of Practice 2021
Poland - Occupational Exposure Limits	
Local name	4-Metoksyfenol
NDS (OEL TWA)	5 mg/m ³
Remark	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286

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HYDROQUINONE MONOMETHYL ETHER (150-76-5)	
Portugal - Occupational Exposure Limits	
Local name	4-Metoxifenol
OEL TWA	5 mg/m ³
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovenia - Occupational Exposure Limits	
Local name	mekinol (4-metoksifenol)
OEL TWA	5 mg/m ³
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
Spain - Occupational Exposure Limits	
Local name	4-Metoxifenol
VLA-ED (OEL TWA) [1]	5 mg/m ³
Remark	Sen (Sensibilizante).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT
Iceland - Occupational Exposure Limits	
Local name	4-Metoxýfenól (4-hýdroxýanisól)
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	4-metoksyfenol
Grenseverdi (OEL TWA) [1]	5 mg/m ³
Regulatory reference	FOR-2021-06-28-2248
ACRYLIC ACID (79-10-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Acrylic acid; Prop-2-enoic acid
IOEL TWA	29 mg/m ³
IOEL TWA [ppm]	10 ppm
IOEL STEL	59 mg/m ³
IOEL STEL [ppm]	20 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
Belgium - Occupational Exposure Limits	
Local name	Acide acrylique (Acide prop-2-énoïque) # Acrylzuur (Prop-2-eenzuur)
OEL TWA	6 mg/m ³
OEL TWA [ppm]	2 ppm
OEL STEL	59 mg/m ³ Valeur limite d'exposition à court terme sur une période de référence de 1 minute. # Grenswaarde voor kortstondige blootstelling in verhouding tot een referentieperiode van 1 minuut.
OEL STEL [ppm]	20 ppm Valeur limite d'exposition à court terme sur une période de référence de 1 minute. # Grenswaarde voor kortstondige blootstelling in verhouding tot een referentieperiode van 1 minuut.

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ACRYLIC ACID (79-10-7)	
Remark	D: la mention "D" signifie que la r�sorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette r�sorption peut se faire tant par contact direct que par pr�sence 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/Arr�t� royal 11/05/2021
Bulgaria - Occupational Exposure Limits	
Local name	Акрилова киселина; 2-пропенова киселина
OEL TWA	29 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	59 mg/m ³ (Краткосрочна гранична стойност на експозиция по отношение на референтен период от 1 минута)
OEL STEL [ppm]	20 ppm (Краткосрочна гранична стойност на експозиция по отношение на референтен период от 1 минута)
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.)
Croatia - Occupational Exposure Limits	
Local name	Akrilna kiselina; prop-2-enonska kiselina
GVI (OEL TWA) [1]	29 mg/m ³
GVI (OEL TWA) [2]	10 ppm
KGVI (OEL STEL)	59 mg/m ³ (KGVI se odnosi na 1 min)
KGVI (OEL STEL) [ppm]	20 ppm (KGVI se odnosi na 1 min)
Remark	Direktiva: 2017/164/UE
Regulatory reference	Pravilnik o zaštići radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
Denmark - Occupational Exposure Limits	
Local name	Acrylsyre
OEL STEL	5.9 mg/m ³ med en referenceperiode p� 15 minutter 59 mg/m ³ med en referenceperiode p� 1 minut
OEL STEL [ppm]	2 ppm med en referenceperiode p� 15 minutter 20 ppm med en referenceperiode p� 1 minut
Remark	E (betyder, at stoffet har en EF-gr�nsev�rdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 2203 af 29. november 2021
Estonia - Occupational Exposure Limits	
Local name	Akr��lhape (prop-2-eehape)
OEL TWA	29 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	59 mg/m ³ arvutatud 1-minutisele kokkupuuteajale
OEL STEL [ppm]	20 ppm arvutatud 1-minutisele kokkupuuteajale

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ACRYLIC ACID (79-10-7)	
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 15.05.2021, 1)
Finland - Occupational Exposure Limits	
Local name	Akryliihappo
HTP (OEL TWA) [1]	6 mg/m ³
HTP (OEL TWA) [2]	2 ppm
HTP (OEL C)	45 mg/m ³
HTP (OEL C) [ppm]	15 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Acide acrylique
VME (OEL TWA)	29 mg/m ³
VME (OEL TWA) [ppm]	10 ppm
VLE (OEL C/STEL)	59 mg/m ³ (Valeur limite sur une période de référence de 1 minute)
VLE (OEL C/STEL) [ppm]	20 ppm (Valeur limite sur une période de référence de 1 minute)
Remark	Valeurs réglementaires indicatives
Regulatory reference	Circulaire du Ministère du travail (réf.: Arrête du 27 septembre 2019)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	30 mg/m ³
AGW (OEL TWA) [2]	10 ppm
Peak exposure limitation factor	1(l)
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; EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich)
Regulatory reference	TRGS900
Gibraltar - Occupational Exposure Limits	
Local name	Acrylic acid; Prop-2-enoic acid
OEL TWA	29 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	59 mg/m ³ The mist is defined as the thoracic fraction
OEL STEL [ppm]	20 ppm The mist is defined as the thoracic fraction
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)
Greece - Occupational Exposure Limits	
Local name	Ακρυλικό οξύ (Προπ-2-ενικό οξύ)
OEL TWA	29 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	59 mg/m ³ (περίοδο αναφοράς διάρκειας 1 λεπτού)
OEL STEL [ppm]	20 ppm (περίοδο αναφοράς διάρκειας 1 λεπτού)
Remark	Η ένδειξη «δέρμα» στις οριακές τιμές επαγγελματικής έκθεσης επισημαίνει το ενδεχόμενο σημαντικής διείσδυσης μέσω του δέρματος.

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ACRYLIC ACID (79-10-7)	
Regulatory reference	Π.Δ. 82/2018 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Hungary - Occupational Exposure Limits	
Local name	AKRILSAV (propénsav)
AK (OEL TWA)	29 mg/m ³
CK (OEL STEL)	59 mg/m ³ 1 perces referenciaidőre vonatkozik
Remark	m (maró hatású anyag, amely felmarja a bőrt, nyálkahártyát, szemet vagy mindhármat); EU4 (2017/164 EU 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	Acrylic acid
OEL TWA [1]	29 mg/m ³
OEL TWA [2]	10 ppm
OEL STEL	59 mg/m ³ for a 1 minute reference period
OEL STEL [ppm]	20 ppm for a 1 minute reference period
Remark	IOELV (Indicative Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2021
Italy - Occupational Exposure Limits	
Local name	Acido acrilico (Acido prop-2-enoico)
OEL TWA	29 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	59 mg/m ³ Valore in relazione a un periodo di riferimento di 1 minuto
OEL STEL [ppm]	20 ppm Valore in relazione a un periodo di riferimento di 1 minuto
Remark	Cute
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Akrilskābe (propēnskābe, propēn-2 skābe)
OEL TWA	5 mg/m ³
OEL TWA [ppm]	1.7 ppm
OEL STEL	59 mg/m ³ Īslaicīgas iedarbības robežvērtība attiecībā uz vienas minūtes bāzes laikposmu
OEL STEL [ppm]	20 ppm Īslaicīgas iedarbības robežvērtība attiecībā uz vienas minūtes bāzes laikposmu
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2018. gada 10. jūlijā noteikumiem Nr. 407)
Lithuania - Occupational Exposure Limits	
Local name	Akrilo rūgštis, prop-2-enoinė rūgštis
IPRV (OEL TWA)	29 mg/m ³
IPRV (OEL TWA) [ppm]	10 ppm
NRV (OEL C)	59 mg/m ³ NRD per 1 min. ataskaitos laikotarpį

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ACRYLIC ACID (79-10-7)	
NRV (OEL C) [ppm]	20 ppm NRD per 1 min. ataskaitos laikotarpj
Remark	Ū (ūmus poveikis)
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Luxembourg - Occupational Exposure Limits	
Local name	Acide acrylique ; Acide prop-2-énoïque
OEL TWA	29 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	59 mg/m ³ Période de référence de 1 minute
OEL STEL [ppm]	20 ppm Période de référence de 1 minute
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	Acrylic acid; Prop-2-enoic acid
OEL TWA	29 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	59 mg/m ³ In relation to a reference period of 1 minute
OEL STEL [ppm]	20 ppm In relation to a reference period of 1 minute
Regulatory reference	S.L.424.24 - Chemical Agents at Work Regulations (L.N.356 of 2021)
Netherlands - Occupational Exposure Limits	
Local name	Acrylzuur (Prop-2-eenzuur)
TGG-8u (OEL TWA)	29 mg/m ³
TGG-15min (OEL STEL)	59 mg/m ³ TGG 1 minuut
Regulatory reference	Arbeidsomstandighedenregeling 2022
Poland - Occupational Exposure Limits	
Local name	Kwas akrylowy
NDS (OEL TWA)	10 mg/m ³
NDSCh (OEL STEL)	29.5 mg/m ³
Remark	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Ácido acrílico
OEL TWA [ppm]	2 ppm
Remark	P (Toxicidade percutânea); A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Acid acrilic
OEL TWA	29 mg/m ³
OEL TWA [ppm]	10 ppm

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ACRYLIC ACID (79-10-7)	
OEL STEL	59 mg/m ³ (Valoare-limită a expunerii pe termen scurt în raport cu o perioadă de referință de 1 minut) (Pentru substanțe chimice în fază gazoasă sau de vapori, valoarea-limită este exprimată la 20°C și la 101,3 kPa)
OEL STEL [ppm]	20 ppm (Valoare-limită a expunerii pe termen scurt în raport cu o perioadă de referință de 1 minut)
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Slovakia - Occupational Exposure Limits	
Local name	Kyselina akrylová (kyselina prop-2-énová)
NPHV (OEL TWA) [1]	29 mg/m ³
NPHV (OEL TWA) [2]	10 ppm
NPHV (OEL STEL)	59 mg/m ³ Referenčnému času jednej minúty
NPHV (OEL STEL) [ppm]	20 ppm Referenčnému času jednej minúty
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	prop-2-enojska kislina (akrilna kislina)
OEL TWA	29 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	59 mg/m ³
OEL STEL [ppm]	20 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), EU
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
Spain - Occupational Exposure Limits	
Local name	Ácido acrílico
VLA-ED (OEL TWA) [1]	29 mg/m ³
VLA-ED (OEL TWA) [2]	10 ppm
VLA-EC (OEL STEL)	59 mg/m ³
VLA-EC (OEL STEL) [ppm]	20 ppm
Remark	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo), vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT
Sweden - Occupational Exposure Limits	
Local name	Akrylsyra
NGV (OEL TWA)	29 mg/m ³
NGV (OEL TWA) [ppm]	10 ppm
KTV (OEL STEL)	59 mg/m ³
KTV (OEL STEL) [ppm]	20 ppm

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ACRYLIC ACID (79-10-7)	
Remark	2 (Korttidsgränsvärde som avser 5-minutersperiod gäller för ammoniak, diisocyanater, 2,6-diisopropylfenylisocyanat, fenylisocyanat, isocyanosyra och metylisocyanat. Korttidsgränsvärde som avser 1-minuters-period gäller för akrylsyra)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
Local name	Acrylic acid (Prop-2-enoic acid)
WEL TWA (OEL TWA) [1]	29 mg/m ³
WEL TWA (OEL TWA) [2]	10 ppm
WEL STEL (OEL STEL)	59 mg/m ³ STEL in relation to a 1-minute reference period
WEL STEL (OEL STEL) [ppm]	20 ppm STEL in relation to a 1-minute reference period
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Akrýlsýra, próp-2-ensýra
OEL TWA	5.9 mg/m ³
OEL TWA [ppm]	2 ppm
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 1069/2018)
Norway - Occupational Exposure Limits	
Local name	Akrylsyre
Grenseverdi (OEL TWA) [1]	29 mg/m ³
Grenseverdi (OEL TWA) [2]	10 ppm
Korttidsverdi (OEL STEL)	59 mg/m ³
Korttidsverdi (OEL STEL) [ppm]	20 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	Acide acrylique / Acrylsäure
MAK (OEL TWA) [1]	29 mg/m ³
MAK (OEL TWA) [2]	10 ppm
KZGW (OEL STEL)	59 mg/m ³
KZGW (OEL STEL) [ppm]	20 ppm
Critical toxicity	VRS, Peau, Yeux / OAW, Haut, Auge
Notation	S, SS _C / S, SS _C
Remark	OSHA
Regulatory reference	www.suva.ch, 28.03.2022
CUMENE HYDROPEROXIDE (80-15-9)	
Latvia - Occupational Exposure Limits	
Local name	2-Fenil-2-propilhidroperoksīds (Kumolhidroperoksīds, kumola hidroperoksīds, kumilhidroperoksīds, izopropilbenzola hidroperoksīds, α, α dimetilbenzilhidroperoksīds)

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CUMENE HYDROPEROXIDE (80-15-9)	
OEL TWA	1 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
Local name	Kumoleno (izopropilbenzeno) hidroperoksidas
IPRV (OEL TWA)	1 mg/m ³
Remark	O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą)
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Switzerland - Occupational Exposure Limits	
Local name	Hydroperoxyde de α,α-diméthylbenzyle / α,α-Dimethylbenzylhydroperoxid [Cumolhydroperoxid]
Remark	OSHA
Regulatory reference	www.suva.ch, 28.03.2022

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

HYDROQUINONE MONOMETHYL ETHER (150-76-5)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	10 mg/m ³
Long-term - systemic effects, inhalation	3 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.0136 mg/l
PNEC aqua (marine water)	0.00136 mg/l
PNEC aqua (intermittent, freshwater)	0.03 mg/l
PNEC aqua (intermittent, marine water)	0.003 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.125 mg/kg dwt
PNEC sediment (marine water)	0.0125 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.017 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
2,2'(4-METHYLPHENYLIMINO)DIETHANOL (3077-12-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.47 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3.29 mg/m ³

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2,2'(4-METHYLPHENYLIMINO)DIETHANOL (3077-12-1)	
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.16 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.58 mg/m ³
Long-term - systemic effects, dermal	0.17 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.0264 mg/l
PNEC aqua (marine water)	0.00264 mg/l
PNEC aqua (intermittent, freshwater)	0.26 mg/l
PNEC aqua (intermittent, marine water)	0.0264 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.1214 mg/kg dwt
PNEC sediment (marine water)	0.0121 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0088 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
ACRYLIC ACID (79-10-7)	
DNEL/DMEL (Workers)	
Acute - local effects, dermal	1 mg/cm ²
Acute - local effects, inhalation	30 mg/m ³
Long-term - local effects, inhalation	30 mg/m ³
DNEL/DMEL (General population)	
Acute - local effects, dermal	1 mg/cm ²
Acute - local effects, inhalation	3.6 mg/m ³
Long-term - local effects, inhalation	3.6 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.003 mg/l
PNEC aqua (marine water)	0.0003 mg/l
PNEC aqua (intermittent, freshwater)	0.0013 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.0236 mg/kg dwt
PNEC sediment (marine water)	0.002346 mg/kg dwt
PNEC (Soil)	
PNEC soil	1 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	0.03 g/kg food
PNEC (STP)	
PNEC sewage treatment plant	0.9 mg/l

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CUMENE HYDROPEROXIDE (80-15-9)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	6 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.0031 mg/l
PNEC aqua (marine water)	0.00031 mg/l
PNEC aqua (intermittent, freshwater)	0.031 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.023 mg/kg dwt
PNEC sediment (marine water)	0.0023 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0029 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.35 mg/l
2,2-BIS(ACRYLOYLOXYMETHYL)BUTYL ACRYLATE (15625-89-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3.5 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.87 mg/m ³
Long-term - systemic effects, dermal	42 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.87 µg/l
PNEC aqua (marine water)	0.087 µg/l
PNEC aqua (intermittent, freshwater)	8.7 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.017 mg/kg dwt
PNEC sediment (marine water)	0.0017 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0029 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	10 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	6.25 mg/l

8.1.5. Control banding

No additional information available

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

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	EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Skin and body protection	
Type	Standard
Protective clothing	EN 14605

Hand protection:

Protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)		≥0.4 mm		EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Respiratory protection			
Device	Filter type	Condition	Standard
Full face mask	Filter A1/B1, Type A - High-boiling (>65 °C) organic compounds		EN 14387

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	: Green.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: No data available.
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 93 °C
Auto-ignition temperature	: No data available.
Decomposition temperature	: Not available
pH	: Not applicable.
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 400 – 600 mPa.s at 25°C
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	: 1.08
Relative vapour density at 20°C	: No data available.
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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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

HYDROQUINONE MONOMETHYL ETHER (150-76-5)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: other:OECD No 423 Acute Oral Toxicity – Acute Toxic Class Method

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

LD50 oral rat	1650 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 oral	139 mg/kg bodyweight Animal: mouse, Guideline: other:
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
LC50 Inhalation - Rat	1.4 mg/l air Animal: rat, Guideline: other:

2,2'(4-METHYLPHENYLIMINO)DIETHANOL (3077-12-1)

LD50 oral rat	959 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:

ACRYLIC ACID (79-10-7)

LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:U.S. EPA Health Effects Test Guidelines, OCSPP 870.1200
LC50 Inhalation - Rat	> 5.1 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

CUMENE HYDROPEROXIDE (80-15-9)

LC50 Inhalation - Rat [ppm]	220 ppm Animal: rat, Animal sex: male
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2,2-BIS(ACRYLOYLOXYMETHYL)BUTYL ACRYLATE (15625-89-5)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat
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Skin corrosion/irritation : Causes skin irritation.
pH: Not applicable.

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

pH	7.44 Temp.: 25 °C Concentration: 1 vol%
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Serious eye damage/irritation : Causes serious eye damage.
pH: Not applicable.

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

pH	7.44 Temp.: 25 °C Concentration: 1 vol%
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Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : May cause respiratory irritation.

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1-ACETYL-2-PHENYLHYDRAZINE (114-83-0)

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified

HYDROQUINONE MONOMETHYL ETHER (150-76-5)

LOAEL (oral, rat, 90 days) : 300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:EPA OPPTS 870.3650 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

NOAEL (oral, rat, 90 days) : 150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:EPA OPPTS 870.3650 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

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

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

2,2'(4-METHYLPHENYLIMINO)DIETHANOL (3077-12-1)

NOAEL (oral, rat, 90 days) : 100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)), Guideline: other:

ACRYLIC ACID (79-10-7)

LOAEL (oral, rat, 90 days) : 100 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)

CUMENE HYDROPEROXIDE (80-15-9)

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

2,2-BIS(ACRYLOYLOXYMETHYL)BUTYL ACRYLATE (15625-89-5)

NOAEL (oral, rat, 90 days) : 300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

NOAEL (dermal, rat/rabbit, 90 days) : > 500 mg/kg bodyweight Animal: rabbit

Aspiration hazard : Not classified

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

Viscosity, kinematic : 16.364 mm²/s

ACRYLIC ACID (79-10-7)

Viscosity, kinematic : 1.094 mm²/s

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2. Other information

Potential adverse human health effects and symptoms : No data available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Not rapidly degradable

HYDROQUINONE MONOMETHYL ETHER (150-76-5)

LC50 - Fish [1]	28.5 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)
EC50 - Crustacea [1]	3 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	54.7 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
EC50 72h - Algae [2]	19 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)
LOEC (chronic)	> 1.45 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
NOEC (chronic)	0.68 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'

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

LC50 - Fish [1]	46 mg/l Test organisms (species): <i>Pimephales promelas</i>
EC50 72h - Algae [1]	2437002 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)

2,2'(4-METHYLPHENYLIMINO)DIETHANOL (3077-12-1)

LC50 - Fish [1]	> 100 mg/l Test organisms (species): <i>Cyprinus carpio</i>
EC50 - Crustacea [1]	48 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)

ACRYLIC ACID (79-10-7)

LC50 - Fish [1]	27 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)
EC50 - Crustacea [1]	95 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 - Other aquatic organisms [1]	95 mg/l Test organisms (species):
EC50 72h - Algae [1]	0.03 mg/l Test organisms (species): <i>Scenedesmus subspicatus</i>
LOEC (chronic)	8.1 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'

CUMENE HYDROPEROXIDE (80-15-9)

LC50 - Fish [1]	3.9 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)
EC50 - Crustacea [1]	18.84 mg/l Test organisms (species): <i>Daphnia magna</i>

2,2-BIS(ACRYLOYLOXYMETHYL)BUTYL ACRYLATE (15625-89-5)

LC50 - Fish [1]	0.87 mg/l Test organisms (species): <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i>)
EC50 72h - Algae [1]	18.8 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)
EC50 72h - Algae [2]	7.2 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)
EC50 96h - Algae [1]	4.86 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)

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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.
European List of Waste (LoW) code : 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

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Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

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)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(a)	ACRYLIC ACID ; CUMENE HYDROPEROXIDE
3(b)	Lockfast R48 ; N,N-DIMETHYL-P-TOLUIDINE ; ACRYLIC ACID ; CUMENE HYDROPEROXIDE ; 2,2-BIS(ACRYLOYLOXYMETHYL)BUTYL ACRYLATE
3(c)	N,N-DIMETHYL-P-TOLUIDINE ; ACRYLIC ACID ; CUMENE HYDROPEROXIDE
40.	ACRYLIC ACID

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

Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

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Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

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

Classification remarks : 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 10/12 - Liquids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
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)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit

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Abbreviations and acronyms:

PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
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
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (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 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.

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Full text of H- and EUH-statements:	
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Org. Perox. E	Organic Peroxides, Type E
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, 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

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.