

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Component Bonder

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

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial  
For professional use only  
Use of the substance/mixture : Adhesives, sealants

##### 1.2.2. Uses advised against

Restrictions on use : No additional information available

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

Integra Adhesives  
600 Ellis Road  
27703 Durham, NC - USA  
T 1-919-598-2400  
[www.integra-adhesives.com](http://www.integra-adhesives.com)

#### 1.4. Emergency telephone number

Emergency number : Transportation and Medical: CHEMTEL Tel. 800-255-3924; +1 813-248-0585 (International)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

### SECTION 2: Hazards identification

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

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

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

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

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazardous ingredients :

Methyl methacrylate; Methyl methacrylate/Butadiene/Styrene Copolymer; 2-(2-ethoxyethoxy)ethyl acrylate; Methacrylate acid ester; Methacrylic acid

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H335 - May cause respiratory irritation.  
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

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No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground and bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER/doctor.  
P312 - Call a POISON CENTRE or doctor if you feel unwell.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use media other than water to extinguish.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS : 12.13% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)  
12.13% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)  
12.13% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Unknown hazards to the aquatic environment (CLP) : Contains 18.05 % of components with unknown hazards to the aquatic environment

### 2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methyl methacrylate (Note D)	(CAS-No.) 80-62-6 (EC-No.) 201-297-1 (EC Index-No.) 607-035-00-6	60 - 70	Flam. Liq. 2, H225 STOT SE 3, H335 Skin Irrit. 2, H315 Skin Sens. 1, H317
Methyl methacrylate/Butadiene/Styrene Copolymer	(CAS-No.) 25053-09-2 (EC-No.) 607-511-3	3 - 7	Eye Irrit. 2, H319 Skin Sens. 1B, H317
Aluminum hydroxide	(CAS-No.) 21645-51-2 (EC-No.) 244-492-7	3 - 7	Not classified
Methacrylic acid (Note D)	(CAS-No.) 79-41-4 (EC-No.) 201-204-4 (EC Index-No.) 607-088-00-5	3 - 7	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1A, H314
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	(CAS-No.) 34562-31-7 (EC-No.) 252-091-3	1 - 3	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315

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			Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Paraffin waxes	(CAS-No.) 8002-74-2 (EC-No.) 232-315-6	0.3 - 0.7	Not classified
2,6-di-tert-butyl-4-methylphenol	(CAS-No.) 128-37-0 (EC-No.) 204-881-4	0.3 - 0.7	Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
$\alpha,\alpha$ -dimethylbenzyl hydroperoxide	(CAS-No.) 80-15-9 (EC-No.) 201-254-7 (EC Index-No.) 617-002-00-8	0.1 - 0.5	Org. Perox. E, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314 STOT RE 2, H373 Aquatic Chronic 2, H411
2-(2-ethoxyethoxy)ethyl acrylate	(CAS-No.) 7328-17-8 (EC-No.) 230-811-7	0.1 - 0.5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
Methacrylate acid ester	(CAS-No.) 52628-03-2 (EC-No.) 258-053-2	0.1 - 0.5	Skin Irrit. 2, H315 Skin Sens. 1, H317
Talc	(CAS-No.) 14807-96-6 (EC-No.) 238-877-9	0.1 - 0.5	Not classified
cumene (Note C)	(CAS-No.) 98-82-8 (EC-No.) 202-704-5 (EC Index-No.) 601-024-00-X	0.01 - 0.2	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
3-ethyl-1,2-dihydro-2-propylquinoline	(CAS-No.) 38085-02-8	<0.1	Not classified
Methoxyphenol	(CAS-No.) 150-76-5 (EC-No.) 205-769-8 (EC Index-No.) 604-044-00-7	<0.1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317
Toluene	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3	<0.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
1,4-naphthoquinone	(CAS-No.) 130-15-4 (EC-No.) 204-977-6	<0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 1 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400
Copper(II) 4-oxopent-2-en-2-olate	(CAS-No.) 13395-16-9 (EC-No.) 236-477-9	<0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Methacrylic acid	(CAS-No.) 79-41-4 (EC-No.) 201-204-4 (EC Index-No.) 607-088-00-5	( 1 ≤C ≤ 100) STOT SE 3, H335
α,α-dimethylbenzyl hydroperoxide	(CAS-No.) 80-15-9 (EC-No.) 201-254-7 (EC Index-No.) 617-002-00-8	( 1 ≤C < 3) Eye Irrit. 2, H319 ( 3 ≤C < 10) Eye Dam. 1, H318 ( 3 ≤C < 10) Skin Irrit. 2, H315 ( 10 ≤C < 100) STOT SE 3, H335 ( 10 ≤C < 100) Skin Corr. 1B, H314

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note D : Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Take off immediately all contaminated clothing and wash it before reuse. Wash skin thoroughly with mild soap and water. 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. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention.

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

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Causes severe skin burns and eye damage. Itching. Redness. Swelling. Blisters.
Symptoms/effects after eye contact	: Causes serious eye damage. Can cause blindness.
Symptoms/effects after ingestion	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

### 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	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Fire hazard	: Highly flammable liquid and vapour. Flammable vapours may accumulate in the container.
Explosion hazard	: May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers.

### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. EN469.

## SECTION 6: Accidental release measures

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

General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Do not breathe aerosol. Do not breathe vapour. Do not get in eyes, on skin, or on clothing. Do NOT taste or swallow. Do not touch spilled material. Ensure adequate ventilation. Use personal protective equipment as required.
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### 6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.  
Emergency procedures : Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

Protective equipment : Refer to section 8.2.  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.  
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.  
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Use only non-sparking tools. Do not breathe aerosol. Avoid contact during pregnancy/while nursing. Do not breathe vapours. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Comply with applicable regulations.  
Storage conditions : Keep only in the original container. Keep in fireproof place. Keep container tightly closed.  
Incompatible products : Strong bases. Strong acids. Strong oxidizers. Free radical initiators. Combustible products.  
Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.  
Prohibitions on mixed storage : Incompatible materials.  
Storage area : Store in dry, cool, well-ventilated area.

### 7.3. Specific end use(s)

Adhesives, sealants.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Methyl methacrylate (80-62-6)	
<b>EU - Occupational Exposure Limits</b>	
Local name	Methyl methacrylate
IOELV TWA (ppm)	50 ppm
IOELV STEL (ppm)	100 ppm
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU
<b>Austria - Occupational Exposure Limits</b>	
MAK (mg/m <sup>3</sup> )	210 mg/m <sup>3</sup> (Sh)
MAK Daily average value (ppm)	50 ppm (Sh)
MAK Short time value (mg/m <sup>3</sup> )	420 mg/m <sup>3</sup> max. 8x5 min./Schicht (gemessen als Momentanwert), (Sh)
MAK Short time value (ppm)	100 ppm max. 8x5 min./Schicht (gemessen als Momentanwert), (Sh)

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<b>Methyl methacrylate (80-62-6)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
Limit value (mg/m <sup>3</sup> )	208 mg/m <sup>3</sup>
Limit value (ppm)	50 ppm
Short time value (mg/m <sup>3</sup> )	416 mg/m <sup>3</sup>
Short time value (ppm)	100 ppm
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Methylmetakrylát (Methylester 2-methyl-2-propenové kyseliny)
Expoziční limity (PEL) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Expoziční limity (PEL) (ppm)	12 ppm
Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Expoziční limity (NPK-P) (ppm)	36 ppm
Remark (CZ)	I - dráždí sliznice (oči, dýchací cesty), respektive kůže, S - látka má senzibilizující účinek (s větou H317, H334).
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Methylmethacrylat (Methacrylsyremethylester; 2-Methylpropensyremethylester)
Grænsevædi (8 timer) (mg/m <sup>3</sup> )	102 mg/m <sup>3</sup>
Grænsevædi (8 timer) (ppm)	25 ppm
Grænsevædi (STEL) (mg/m <sup>3</sup> )	204 mg/m <sup>3</sup>
Grænsevædi (STEL) (ppm)	50 ppm
Anmærkninger (DK)	H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 1458 af 13/12/2019
<b>Finland - Occupational Exposure Limits</b>	
Local name	Metyylimetakrylaatti
HTP-arvo (8h) (mg/m <sup>3</sup> )	42 mg/m <sup>3</sup>
HTP-arvo (8h) (ppm)	10 ppm
HTP-arvo (15 min)	210 mg/m <sup>3</sup>
HTP-arvo (15 min) (ppm)	50 ppm
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
<b>France - Occupational Exposure Limits</b>	
Local name	Méthacrylate de méthyle
VME (mg/m <sup>3</sup> )	205 mg/m <sup>3</sup>
VME (ppm)	50 ppm
VLE (mg/m <sup>3</sup> )	410 mg/m <sup>3</sup>
VLE (ppm)	100 ppm
Note (FR)	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
TRGS 900 Local name	Methylmethacrylat
Occupational exposure limit value (mg/m <sup>3</sup> )	210 mg/m <sup>3</sup>

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<b>Methyl methacrylate (80-62-6)</b>	
Occupational exposure limit value (ppm)	50 ppm
Limitation of exposure peaks (mg/m <sup>3</sup> )	420 mg/m <sup>3</sup>
Limitation of exposure peaks (ppm)	100 ppm
Peak exposure limitation factor	2(l)
TRGS 900 Remark	DFG;EU;Y
TRGS 900 Regulatory reference	TRGS900
<b>Hungary - Occupational Exposure Limits</b>	
Local name	METIL-METAKRILÁT
AK-érték	208 mg/m <sup>3</sup>
CK-érték	415 mg/m <sup>3</sup>
Megjegyzések (HU)	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
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (ppm)	50 ppm
OEL (15 min ref) (ppm)	100 ppm
<b>Italy - Occupational Exposure Limits</b>	
Local name	Metacrilato di metile
OEL TWA (ppm)	50 ppm
OEL STEL (ppm)	100 ppm
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Metilmetakrilāts (2-metilpropēnskābes metilesteris, metil-2-metilpropeonāts)
OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
IPRV (ppm)	50 ppm
TPRV (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
TPRV (ppm)	150 ppm
Remark (LT)	J
<b>Netherlands - Occupational Exposure Limits</b>	
Local name	Methylmethacrylaat
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	205 mg/m <sup>3</sup>
Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	410 mg/m <sup>3</sup>
Regulatory reference	Arbeidsomstandighedenregeling 2020

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<b>Methyl methacrylate (80-62-6)</b>	
<b>Poland - Occupational Exposure Limits</b>	
Local name	Metakrylan metylu
NDS (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
NDSCh (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Regulatory reference	Dz. U. 2018 poz. 1286
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Metacrilato de metilo
OEL TWA (ppm)	50 ppm
OEL STEL (ppm)	100 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Metylmetakrylát (metyl 2-etylpropenoát)
NPHV (priemerná) (ppm)	50 ppm
OEL STEL (ppm)	100 ppm
Upozornenie (SK)	S - znamená, že faktor môže spôsobiť senzibilizáciu
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	metilmetakrilat (metil 2-metilprop-2-enoat; metil 2-metilpropenoat)
OEL TWA (mg/m <sup>3</sup> )	210 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	420 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
<b>Spain - Occupational Exposure Limits</b>	
Local name	Metacrilato de metilo
VLA-ED (mg/m <sup>3</sup> )	208 mg/m <sup>3</sup>
VLA-ED (ppm)	50 ppm
VLA-EC (mg/m <sup>3</sup> )	416 mg/m <sup>3</sup>
VLA-EC (ppm)	100 ppm
Notes	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 2019. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Metylmetakrylat
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m <sup>3</sup> )	400 mg/m <sup>3</sup>
kortidsvärde (KTV) (ppm)	100 ppm

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<b>Methyl methacrylate (80-62-6)</b>	
Anmärkning (SE)	M (Medicinska kontroller kan krävas för hantering av ämnet. Se vidare föreskrifterna om medicinska kontroller i arbetslivet. För vissa ämnen ska arbetsgivaren erbjuda läkarundersökning och för andra ämnen gäller krav på periodisk läkarundersökning och tjänstbarhetsbedömning); S (Ämnet är sensibiliserande. Sensibiliserande ämnen kan ge allergi eller annan överkänslighet. Överkänslighetsbesvären drabbar främst huden eller andningsorganen. Överkänslighet innebär att man reagerar vid kontakt med ämnen som normalt inte ger besvär. Allergi är en undergrupp av överkänslighet som orsakas av reaktioner i kroppens immunsystem. Särskilt låga gränsvärden har fastställts för ämnen med mer uttalat luftvägssensibiliserande egenskaper. Några ämnen med starkt sensibiliserande egenskaper får endast hanteras efter tillstånd från Arbetsmiljöverket, se föreskrifterna om kemiska arbetsmiljörisker. Dessa ämnen har inga gränsvärden men i vissa fall riktvärden)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	208 mg/m <sup>3</sup>
WEL TWA (ppm)	50 ppm
WEL STEL (mg/m <sup>3</sup> )	416 mg/m <sup>3</sup>
WEL STEL (ppm)	100 ppm
<b>Norway - Occupational Exposure Limits</b>	
Local name	Metylmetakrylat (Metakrylsyremetylester)
Grenseverdier (AN) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Grenseverdier (AN) (ppm)	25 ppm
Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	400 mg/m <sup>3</sup>
Grenseverdier (Korttidsverdi) (ppm)	100 ppm
Merknader (NO)	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 for stoffet.
Regulatory reference	FOR-2020-04-06-695
<b>Switzerland - Occupational Exposure Limits</b>	
VME (mg/m <sup>3</sup> )	210 mg/m <sup>3</sup>
MAK (ppm)	50 ppm
KZGW (mg/m <sup>3</sup> )	420 mg/m <sup>3</sup>
KZGW (ppm)	100 ppm
<b>Methoxyphenol (150-76-5)</b>	
<b>Austria - Occupational Exposure Limits</b>	
MAK (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
MAK Short time value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> max. 4x15 min./Schicht
<b>Belgium - Occupational Exposure Limits</b>	
Limit value (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Denmark - Occupational Exposure Limits</b>	
Local name	4-Methoxyphenol (4-Hydroxyanisol)
Grænsevædi (8 timer) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Regulatory reference	BEK nr 655 af 31/05/2018

# Component Bonder

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<b>Methoxyphenol (150-76-5)</b>	
<b>France - Occupational Exposure Limits</b>	
Local name	4-Méthoxyphénol
VME (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Poland - Occupational Exposure Limits</b>	
Local name	4-Metoksyfenol
NDS (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Remark (PL)	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
<b>Portugal - Occupational Exposure Limits</b>	
Local name	4-Metoxifenol
OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	mekinol (4-metoksifenol)
OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
<b>Spain - Occupational Exposure Limits</b>	
Local name	4-Metoxifenol
VLA-ED (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Notes	Sen
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Norway - Occupational Exposure Limits</b>	
Local name	4-metoksyfenol
Grenseverdier (AN) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Regulatory reference	FOR-2018-08-21-1255

<b>Talc (14807-96-6)</b>	
<b>Austria - Occupational Exposure Limits</b>	
MAK (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Remark (AT)	(alveolengängige Fraktion)
<b>Belgium - Occupational Exposure Limits</b>	
Limit value (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Remark (BE)	(sans fibre d'amiante)

# Component Bonder

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according to Regulation (EU) 2015/830

<b>Talc (14807-96-6)</b>	
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Mastek
Expoziční limity (PEL) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (pro respirabilní frakci, ≤ 5 % křemen, kristobalit, tridymit nebo gama-oxid hlinitý) 10 mg/m <sup>3</sup> (pro celkovou koncentraci)
Remark (CZ)	Prachy s převážně fibrogenným účinkem. d) Za přítomnosti početní koncentrace respirabilních vláken v pracovním ovzduší, musí být dodržen přípustný expoziční limit pro azbest.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Talkum indeholdende fibre
Grænsevædi (8 timer) (mg/m <sup>3</sup> )	0.3 fibers/cm <sup>3</sup>
Anmærkninger (DK)	K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 1458 af 13/12/2019
<b>Finland - Occupational Exposure Limits</b>	
Local name	Talkki
HTP-arvo (8h) (mg/m <sup>3</sup> )	0.5 fibers/cm <sup>3</sup> kuitumainen
HTP-arvo (15 min) (ppm)	2 ppm rakeinen, hengittyvä pöly 1 ppm rakeinen, alveolijae
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
<b>Hungary - Occupational Exposure Limits</b>	
AK-érték	2 mg/m <sup>3</sup>
Megjegyzések (HU)	respirable aerosol
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> total inhalable dust 0.8 mg/m <sup>3</sup> respirable dust
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (ikvepiamoji frakcija) 1 mg/m <sup>3</sup> (alveolinė frakcija)
<b>Netherlands - Occupational Exposure Limits</b>	
Local name	Talk
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0.25 mg/m <sup>3</sup> (respirabel)
Remark (MAC)	respirable aerosol
Regulatory reference	Arbeidsomstandighedenregeling 2020
<b>Poland - Occupational Exposure Limits</b>	
Local name	Talk
NDS (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> frakcja wdychalna 1 mg/m <sup>3</sup> frakcja respirabilna
Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej. Obowiązuje jednoczesne oznaczenie stężeń włókien respirabilnych azbestu.
Regulatory reference	Dz. U. 2018 poz. 1286

# Component Bonder

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<b>Talc (14807-96-6)</b>	
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Talco
OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> Sem fibras de amianto. E (O valor aplica-se a partículas sem amianto e contendo menos de 1 % de sílica cristalina), R (Fração respirável) 2 mg/m <sup>3</sup> Com fibras de amianto. K (Partículas respiráveis) 0.1 fibers/cm <sup>3</sup> Com fibras de amianto
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	smukec – brez azbestnih vlaken
OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>Spain - Occupational Exposure Limits</b>	
Local name	Talco (con fibras de amianto)
VLA-ED (mg/m <sup>3</sup> )	0.1 fibers/cm <sup>3</sup>
Notes	p (Sin embargo, no debe exceder de 2mg/m <sup>3</sup> de partículas respirables).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Talk
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> totaldamm 1 mg/m <sup>3</sup> respirabel fraktion
Anmärkning (SE)	3 (Den respirabla fraktionen är de inhalerbara partiklar som når längst ner i luftvägarna, till alveolerna i lungorna. Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetarskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Talc
WEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Remark (WEL)	respirable aerosol
<b>Norway - Occupational Exposure Limits</b>	
Greenseverdier (AN) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirabelt støv) 6 mg/m <sup>3</sup> (totalstøv)
<b>Switzerland - Occupational Exposure Limits</b>	
VME (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Remark	(respirable aerosol)

<b>Toluene (108-88-3)</b>	
<b>EU - Occupational Exposure Limits</b>	
Local name	Toluene
IOELV TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
IOELV STEL (ppm)	100 ppm

# Component Bonder

## Safety Data Sheet

according to Regulation (EU) 2015/830

<b>Toluene (108-88-3)</b>	
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
<b>Austria - Occupational Exposure Limits</b>	
MAK (mg/m <sup>3</sup> )	190 mg/m <sup>3</sup> (H,d)
MAK Daily average value (ppm)	50 ppm (H,d)
MAK Short time value (mg/m <sup>3</sup> )	380 mg/m <sup>3</sup> max. 4x15 min./Schicht, (H,d)
MAK Short time value (ppm)	100 ppm max. 4x15 min./Schicht, (H,d)
<b>Belgium - Occupational Exposure Limits</b>	
Limit value (mg/m <sup>3</sup> )	77 mg/m <sup>3</sup>
Limit value (ppm)	20 ppm
Short time value (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Short time value (ppm)	100 ppm
Remark (BE)	D
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Toluen (Methylbenzen)
Expoziční limity (PEL) (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Expoziční limity (PEL) (ppm)	50 ppm
Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Expoziční limity (NPK-P) (ppm)	100 ppm
Remark (CZ)	B - u látky je zaveden biologický expoziční test (BET) v moči nebo krvi, D - při expozici se významně uplatňuje pronikání faktoru kůží, I - dráždí sliznice (oči, dýchací cesty), respektive kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
<b>Czech Republic - Biological limit values</b>	
Local name	Toluen (Methylbenzen)
Czech Republic - BLV	1.5 mg/g creatinine Ukazatel: o-Kresol (po hydrolyze) - Biološki uzorak: moči - Doba odběru: konec směny 1.6 µmol/mmol Creatinine Ukazatel: o-Kresol (po hydrolyze) - Biološki uzorak: moči - Doba odběru: konec směny 1600 mg/g creatinine Ukazatel: Hippurová kyselina - Biološki uzorak: moči - Doba odběru: konec směny 1000 µmol/mmol Creatinine Ukazatel: Hippurová kyselina - Biološki uzorak: moči - Doba odběru: konec směny
Remark (BEI - CZ)	Je-li hodnota při nálezu kyseliny hippurové vyšší než 1600 mg/g, avšak nepřesahuje 2 500 mg/g kreatininu, použije se ke zpřesnění expozice toluenu biologický expoziční test podle ukazatele o-Kresol. Je-li hodnota při nálezu kyseliny hippurové vyšší než 2500 mg/g, považuje se za hodnotu prokazující, že jde o pracovní expozici toluenu, jehož hodnota PEL je překračována a biologický expoziční test podle ukazatele o-Kresol se již neprovádí.
Regulatory reference	Vyhláška č. 107/2013 Sb. (kterou se mění vyhláška č. 432/2003 Sb.)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Toluen (Methylbenzen; Phenylmethan)
Grænsevædi (8 timer) (mg/m <sup>3</sup> )	94 mg/m <sup>3</sup>
Grænsevædi (8 timer) (ppm)	25 ppm
Grænsevædi (STEL) (mg/m <sup>3</sup> )	188 mg/m <sup>3</sup>

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<b>Toluene (108-88-3)</b>	
Grænsevædi (STEL) (ppm)	50 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 1458 af 13/12/2019
<b>Finland - Occupational Exposure Limits</b>	
Local name	Tolueeni
HTP-arvo (8h) (mg/m <sup>3</sup> )	81 mg/m <sup>3</sup>
HTP-arvo (8h) (ppm)	25 ppm 500 ppm (Veren tolueenipitoisuus, Työpäivän jälkeinen aamu)
HTP-arvo (15 min)	380 mg/m <sup>3</sup>
HTP-arvo (15 min) (ppm)	100 ppm
<b>Finland - Biological limit values</b>	
Local name	Tolueeni
Finland - BLV	500 nmol/l Parametri: Veren tolueeni - Näytteenottoajankohta: Työpäivän jälkeinen aamu
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
<b>France - Occupational Exposure Limits</b>	
Local name	Toluène
VME (mg/m <sup>3</sup> )	76.8 mg/m <sup>3</sup>
VME (ppm)	20 ppm
VLE (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
VLE (ppm)	100 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
TRGS 900 Local name	Toluol
Occupational exposure limit value (mg/m <sup>3</sup> )	190 mg/m <sup>3</sup>
Occupational exposure limit value (ppm)	50 ppm
Peak exposure limitation factor	4(II)
TRGS 900 Remark	DFG;EU;H;Y
TRGS 900 Regulatory reference	TRGS900
<b>Germany - Biological limit values (TRGS 903)</b>	
TRGS 903 Biological limit value	3 mg/l o-Kresol (Urin; bei Langzeitexposition/Expositionsende bzw. Schichtende) 1 mg/l Toluol (Blut; Expositionsende bzw. Schichtende)
<b>Hungary - Occupational Exposure Limits</b>	
Local name	TOLUOL
AK-érték	190 mg/m <sup>3</sup>
CK-érték	380 mg/m <sup>3</sup>
Megjegyzések (HU)	b (Bőrön át is felszívódik), i (ingerlő anyag, amely irritálja a bőrt, nyálkahártyát, szemet vagy mindhármát); BEM (biológiai expozíciós mutató); EU2 (2006/15/EK irányelvben közölt érték); R+T (Azok az anyagok, amelyek RÖVID és TARTÓS expozíciója is egészségkárosodást okoz)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről

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<b>Toluene (108-88-3)</b>	
<b>Hungary - Biological limit values</b>	
Local name	Toluol
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>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	50 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
OEL (15 min ref) (ppm)	100 ppm
<b>Italy - Occupational Exposure Limits</b>	
Local name	Toluene
OEL TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
Notes	pelle
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Toluols (metilbenzols)
OEL TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
OEL TWA (ppm)	14 ppm
OEL STEL (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
OEL STEL (ppm)	40 ppm
Remark (LV)	Āda, letekme uz dzirdi
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2015. gada 7. aprīlī noteikumiem Nr. 163)
<b>Latvia - Biological limit values</b>	
Local name	Toluolam
Latvia - BLV	1.6 g/g creatinine Urīnā maiņas beigās nosaka hipurskābi 0.05 mg/l Toluolu asinīs
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325 (MK 10.07.2018)
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
IPRV (ppm)	50 ppm
TPRV (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
TPRV (ppm)	100 ppm
Remark (LT)	O
<b>Netherlands - Occupational Exposure Limits</b>	
Local name	Tolueen
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Regulatory reference	Arbeidsomstandighedenregeling 2020

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<b>Toluene (108-88-3)</b>	
<b>Poland - Occupational Exposure Limits</b>	
Local name	Toluen
NDS (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
NDSCh (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Remark (PL)	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
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Tolueno
OEL TWA (ppm)	20 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Portugal - Biological limit values</b>	
Local name	Tolueno
Portugal (BEI)	0.02 mg/l Parâmetro: Tolueno - Meio: sangue - Momento da amostragem: Antes do último turno da semana de trabalho 0.03 mg/l Parâmetro: Tolueno - Meio: urina - Momento da amostragem: Fim do turno 0.3 mg/g creatinine Parâmetro: o-Cresol - Meio: urina - Momento da amostragem: Fim do turno - Notação: Vb (Valor basal), Com hidrólise
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Toluén
NPHV (priemerná) (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
NPHV (priemerná) (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
Upozornenie (SK)	K - znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
<b>Slovakia - Biological limit values</b>	
Local name	Toluén
Slovakia - BLV	600 µg/l Zisťovaný faktor: Toluén - Vyšetrovaný materiál: krv - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny 1.5 mg/l Zisťovaný faktor: O-krezol - Vyšetrovaný materiál: moč - Čas odberu vzorky: c) pri dlhodobej expozícii; po viacerých pracovných zmenách, b) koniec expozície alebo pracovnej zmeny 2401 mg/l Zisťovaný faktor: Kyselina hippurová - Vyšetrovaný materiál: moč - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny 1600 mg/g creatinine Zisťovaný faktor: Kyselina hippurová - Vyšetrovaný materiál: moč - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (Zmena: 471/2011 Z.z.)
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	toluen
OEL TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm

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<b>Toluene (108-88-3)</b>	
Remark (SI)	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biološka mejna vrednost), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
<b>Slovenia - Biological limit values</b>	
Local name	toluen
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
<b>Spain - Occupational Exposure Limits</b>	
Local name	Tolueno
VLA-ED (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
VLA-ED (ppm)	50 ppm
VLA-EC (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
VLA-EC (ppm)	100 ppm
Notes	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), VLB® (Agente químico que tiene Valor Límite Biológico), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el "Reglamento (CE) nº 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos" (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de diciembre de 2006). Las restricciones de una sustancia pueden aplicarse a todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidas y especifica los usos que se han restringido).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
<b>Spain - Biological limit values</b>	
Local name	Tolueno
Spain - BLV	0.6 mg/l Parámetro: o-Cresol - Medio: Orina - Momento de muestreo: Final de la jornada laboral - Notas: F (Fondo. El indicador está generalmente presente en cantidades detectables en personas no expuestas laboralmente. Estos niveles de fondo están considerados en el valor VLB) 0.05 mg/l Parámetro: Tolueno - Medio: Sangre - Momento de muestreo: Principio de la última jornada de la semana laboral 0.08 mg/l Parámetro: Tolueno - Medio: orina - Momento de muestreo: Final de la jornada laboral
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Toluen
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
kortidsvärde (KTV) (ppm)	100 ppm
Anmärkning (SE)	B (Ämnet kan orsaka hörselskada. Exponering för ämnet nära det befintliga yrkeshygieniska gränsvärdet och vid samtidig exponering för buller nära insatsvärdet 80 dB kan orsaka hörselskada); H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga)

# Component Bonder

## Safety Data Sheet

according to Regulation (EU) 2015/830

<b>Toluene (108-88-3)</b>	
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	191 mg/m <sup>3</sup>
WEL TWA (ppm)	50 ppm
WEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
WEL STEL (ppm)	100 ppm
Remark (WEL)	(Sk)
<b>Norway - Occupational Exposure Limits</b>	
Local name	Toluen
Grenseverdier (AN) (mg/m <sup>3</sup> )	94 mg/m <sup>3</sup>
Grenseverdier (AN) (ppm)	25 ppm
Merknader (NO)	H: Kjemikalier som kan tas opp gjennom huden; E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
<b>Switzerland - Occupational Exposure Limits</b>	
VME (mg/m <sup>3</sup> )	190 mg/m <sup>3</sup>
MAK (ppm)	50 ppm 0.6 ppm toluolo (sangue; fine dell'esposizione / del turno) 0.5 ppm o-cresolo (urina; in caso di esposizione per molto tempo/fine dell'esposizione / del turno)
KZGW (mg/m <sup>3</sup> )	760 mg/m <sup>3</sup> max. 4x15 min./turno
KZGW (ppm)	200 ppm max. 4x15 min./turno
<b>1,4-naphthoquinone (130-15-4)</b>	
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
Remark (LT)	O
<b><math>\alpha,\alpha</math>-dimethylbenzyl hydroperoxide (80-15-9)</b>	
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Remark (LT)	O
<b>cumene (98-82-8)</b>	
<b>EU - Occupational Exposure Limits</b>	
Local name	2-Phenylpropane (Cumene)
IOELV TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
IOELV TWA (ppm)	10 ppm
IOELV STEL (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
IOELV STEL (ppm)	50 ppm
Notes	Skin. During exposure monitoring, account should be taken of relevant biological monitoring values as suggested by the Scientific Committee on Occupational Exposure Limits for Chemicals Agents (SCOEL)

# Component Bonder

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according to Regulation (EU) 2015/830

<b>cumene (98-82-8)</b>	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831
<b>Austria - Occupational Exposure Limits</b>	
MAK (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup> (H)
MAK Daily average value (ppm)	20 ppm (H)
MAK Short time value (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup> max. 4x15 min./Schicht, (H)
MAK Short time value (ppm)	50 ppm max. 4x15 min./Schicht, (H)
<b>Belgium - Occupational Exposure Limits</b>	
Limit value (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Limit value (ppm)	20 ppm
Short time value (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
Short time value (ppm)	50 ppm
Remark (BE)	D
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Isopropylbenzen (Cumen)
Grænsevædi (8 timer) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Grænsevædi (8 timer) (ppm)	20 ppm
Grænsevædi (STEL) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Grænsevædi (STEL) (ppm)	40 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 1458 af 13/12/2019
<b>Finland - Occupational Exposure Limits</b>	
Local name	Kumeeni
HTP-arvo (8h) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
HTP-arvo (8h) (ppm)	20 ppm
HTP-arvo (15 min)	250 mg/m <sup>3</sup>
HTP-arvo (15 min) (ppm)	50 ppm
Huomautus (FI)	iho
<b>France - Occupational Exposure Limits</b>	
Local name	Cumène (Isopropylbenzène)
VME (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
VME (ppm)	20 ppm
VLE (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
VLE (ppm)	50 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
TRGS 900 Local name	Cumol
Occupational exposure limit value (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Occupational exposure limit value (ppm)	10 ppm

# Component Bonder

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<b>cumene (98-82-8)</b>	
Limitation of exposure peaks (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
Limitation of exposure peaks (ppm)	50 ppm
Peak exposure limitation factor	4(II)
TRGS 900 Remark	H;Y,AGS;EU;DFG
TRGS 900 Regulatory reference	TRGS900
<b>Germany - Biological limit values (TRGS 903)</b>	
TRGS 903 Biological limit value	2 mg/l Isopropylbenzol (Blut; Expositionsende bzw. Schichtende) 50 mg/l 2-Phenylpropan-2-ol (Urin; Expositionsende bzw. Schichtende)
<b>Hungary - Occupational Exposure Limits</b>	
Local name	KUMOL
AK-érték	50 mg/m <sup>3</sup>
CK-érték	250 mg/m <sup>3</sup>
Megjegyzések (HU)	b (Bőrön át is felszívódik), i (ingerlő anyag, amely irritálja a bőrt, nyálkahártyát, szemet vagy mindhármát); R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkezik)
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>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	20 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
OEL (15 min ref) (ppm)	50 ppm
Notes (IE)	Sk, IOELV
<b>Italy - Occupational Exposure Limits</b>	
Local name	Cumene
OEL TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
OEL STEL (ppm)	50 ppm
Notes	pelle
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Kumols (izopropilbenzols, propilbenzols)
OEL TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
OEL STEL (ppm)	50 ppm
Remark (LV)	Āda, letekme uz dzirdi
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumi Nr. 325 (Grozījumi Ministru kabineta 2015. gada 7. aprīlī noteikumi Nr. 163)
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup>

# Component Bonder

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<b>cumene (98-82-8)</b>	
IPRV (ppm)	25 ppm
TPRV (mg/m <sup>3</sup> )	170 mg/m <sup>3</sup>
TPRV (ppm)	35 ppm
Remark (LT)	O
<b>Netherlands - Occupational Exposure Limits</b>	
Local name	Cumeen
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
Remark (MAC)	H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Regulatory reference	Arbeidsomstandighedenregeling 2020
<b>Poland - Occupational Exposure Limits</b>	
Local name	Kumen (izopropylobenzen)
NDS (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
NDSCh (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
Remark (PL)	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
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Cumeno
OEL TWA (ppm)	50 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Izopropylbenzén (kumén)
NPHV (priemerná) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
NPHV (priemerná) (ppm)	20 ppm
OEL STEL (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
OEL STEL (ppm)	50 ppm
Upozornenie (SK)	K - znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	kumen
OEL TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
OEL STEL (ppm)	50 ppm
Remark (SI)	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biološka mejna vrednost), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019

# Component Bonder

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<b>cumene (98-82-8)</b>	
<b>Slovenia - Biological limit values</b>	
Local name	kumen
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
<b>Spain - Occupational Exposure Limits</b>	
Local name	Cumeno
VLA-ED (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
VLA-ED (ppm)	20 ppm
VLA-EC (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
VLA-EC (ppm)	50 ppm
Notes	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), 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 2019. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Isopropylbensen, Kumen
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
nivågränsvärde (NVG) (ppm)	20 ppm
kortidsvärde (KTV) (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
kortidsvärde (KTV) (ppm)	50 ppm
Anmärkning (SE)	H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	125 mg/m <sup>3</sup>
WEL TWA (ppm)	25 ppm
WEL STEL (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
WEL STEL (ppm)	50 ppm
Remark (WEL)	(Sk)
<b>Norway - Occupational Exposure Limits</b>	
Local name	1-metyletylbenzen (Kumen)
Grenseverdier (AN) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Grenseverdier (AN) (ppm)	20 ppm
Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
Grenseverdier (Korttidsverdi) (ppm)	50 ppm
Merknader (NO)	H: Kjemikalier som kan tas opp gjennom huden; K: Kjemikalier som skal betraktes som kreftfremkallende; E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
<b>Switzerland - Occupational Exposure Limits</b>	
VME (mg/m <sup>3</sup> )	245 mg/m <sup>3</sup>
MAK (ppm)	50 ppm

# Component Bonder

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according to Regulation (EU) 2015/830

<b>cumene (98-82-8)</b>	
KZGW (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
KZGW (ppm)	200 ppm
<b>Methacrylic acid (79-41-4)</b>	
<b>Austria - Occupational Exposure Limits</b>	
MAK (mg/m <sup>3</sup> )	70 mg/m <sup>3</sup>
MAK Daily average value (ppm)	20 ppm
<b>Belgium - Occupational Exposure Limits</b>	
Limit value (mg/m <sup>3</sup> )	71 mg/m <sup>3</sup>
Limit value (ppm)	20 ppm
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Methacrylsyre
Grænsevædi (8 timer) (mg/m <sup>3</sup> )	70 mg/m <sup>3</sup>
Grænsevædi (8 timer) (ppm)	20 ppm
Grænsevædi (STEL) (mg/m <sup>3</sup> )	140 mg/m <sup>3</sup>
Grænsevædi (STEL) (ppm)	40 ppm
Regulatory reference	BEK nr 1458 af 13/12/2019
<b>Finland - Occupational Exposure Limits</b>	
Local name	Metakrylihapo
HTP-arvo (8h) (mg/m <sup>3</sup> )	71 mg/m <sup>3</sup>
HTP-arvo (8h) (ppm)	20 ppm
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
<b>France - Occupational Exposure Limits</b>	
Local name	Acide méthacrylique
VME (mg/m <sup>3</sup> )	70 mg/m <sup>3</sup>
VME (ppm)	20 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
TRGS 900 Local name	Methacrylsäure
Occupational exposure limit value (mg/m <sup>3</sup> )	180 mg/m <sup>3</sup>
Occupational exposure limit value (ppm)	50 ppm
Peak exposure limitation factor	2(l)
TRGS 900 Remark	DFG;Y
TRGS 900 Regulatory reference	TRGS900
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	70 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	20 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	140 mg/m <sup>3</sup>
OEL (15 min ref) (ppm)	40 ppm

# Component Bonder

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<b>Methacrylic acid (79-41-4)</b>	
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Metakriļskābe (2-metilpropēnskābe)
OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	70 mg/m <sup>3</sup>
IPRV (ppm)	20 ppm
TPRV (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
TPRV (ppm)	30 ppm
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Ácido metacrílico
OEL TWA (ppm)	20 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	metakrilna kislina
OEL TWA (mg/m <sup>3</sup> )	180 mg/m <sup>3</sup>
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m <sup>3</sup> )	360 mg/m <sup>3</sup>
OEL STEL (ppm)	100 ppm
Remark (SI)	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
<b>Spain - Occupational Exposure Limits</b>	
Local name	Ácido metacrílico
VLA-ED (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
VLA-ED (ppm)	20 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Metakrylsyra
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	70 mg/m <sup>3</sup>
nivågränsvärde (NVG) (ppm)	20 ppm
kortidsvärde (KTV) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
kortidsvärde (KTV) (ppm)	30 ppm
Anmärkning (SE)	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
WEL TWA (ppm)	20 ppm
WEL STEL (mg/m <sup>3</sup> )	143 mg/m <sup>3</sup>
WEL STEL (ppm)	40 ppm

# Component Bonder

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<b>Methacrylic acid (79-41-4)</b>	
<b>Norway - Occupational Exposure Limits</b>	
Local name	Metakrylsyre
Grenseverdier (AN) (mg/m <sup>3</sup> )	70 mg/m <sup>3</sup>
Grenseverdier (AN) (ppm)	20 ppm
Regulatory reference	FOR-2020-04-06-695
<b>Switzerland - Occupational Exposure Limits</b>	
VME (mg/m <sup>3</sup> )	18 mg/m <sup>3</sup>
MAK (ppm)	5 ppm
KZGW (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup>
KZGW (ppm)	10 ppm
<b>Paraffin waxes (8002-74-2)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
Limit value (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Remark (BE)	(cire de) (fumées)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Paraffinrøg
Grænsevædi (8 timer) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>Finland - Occupational Exposure Limits</b>	
Local name	Parafiinihuurut
HTP-arvo (8h) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>France - Occupational Exposure Limits</b>	
Local name	Cire de paraffine
VME (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Note (FR)	Valeurs recommandées/admises
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
OEL (15 min ref) (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
<b>Poland - Occupational Exposure Limits</b>	
Local name	Parafina stała dymy
NDS (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Remark (PL)	dymy
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Parafina (cera), fumos
OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Parafín, dymy
NPHV (priemerná) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
OEL STEL (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
<b>Spain - Occupational Exposure Limits</b>	
Local name	Cera de parafina

# Component Bonder

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<b>Paraffin waxes (8002-74-2)</b>	
VLA-ED (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
WEL STEL (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
Remark (WEL)	(fume)
<b>Norway - Occupational Exposure Limits</b>	
Local name	Parafin
Grenseverdier (AN) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>Switzerland - Occupational Exposure Limits</b>	
VME (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Remark	(alveolengängiger Staub)
<b>2,6-di-tert-butyl-4-methylphenol (128-37-0)</b>	
<b>Austria - Occupational Exposure Limits</b>	
MAK (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Belgium - Occupational Exposure Limits</b>	
Limit value (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>Denmark - Occupational Exposure Limits</b>	
Local name	2,6-Di-tert-butyl-p-cresol (Butylhydroxytoluen)
Grænsevædi (8 timer) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Finland - Occupational Exposure Limits</b>	
Local name	2,6-Di-tert-butyli-p-kresoli
HTP-arvo (8h) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
HTP-arvo (15 min)	20 mg/m <sup>3</sup>
<b>France - Occupational Exposure Limits</b>	
Local name	2,6-Di-tert-butyl-p-crésol
VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Note (FR)	Valeurs recommandées/admises
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
TRGS 900 Local name	2,6-Di-tert-butyl-p-kresol
Occupational exposure limit value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> E (mg/m <sup>3</sup> )
TRGS 900 Remark	DFG,Y,11
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Netherlands - Occupational Exposure Limits</b>	
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Remark (MAC)	valeur limite de l'air
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Hidroxitoluenobutilado (2,6-Di-terc-butil-p-cresol) (BHT)
OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> FIV (Fração inalável e vapor)

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<b>2,6-di-tert-butyl-4-methylphenol (128-37-0)</b>	
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	2,6-di-terc-butil-p-krezol
OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Spain - Occupational Exposure Limits</b>	
Local name	2,6-Diterc-butil-p-cresol
VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Switzerland - Occupational Exposure Limits</b>	
VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Remark	(einatembarer Staub)

<b>Copper(II) 4-oxopent-2-en-2-olate (13395-16-9)</b>	
<b>EU - Occupational Exposure Limits</b>	
Local name	Copper
IOELV TWA (mg/m <sup>3</sup> )	0.01 mg/m <sup>3</sup> (respirable fraction)
Notes	(Year of adoption 2014)
Regulatory reference	SCOEL Recommendations
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Měď
Expoziční limity (PEL) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (prach) (V) 0.1 mg/m <sup>3</sup> (dýmy) (R)
Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (prach) (V) 0.2 mg/m <sup>3</sup> (dýmy) (R)
Remark (CZ)	V - vdechovatelná frakce aerosolu, R - respirabilní frakce aerosolu.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Kobber
Grænsevædi (8 timer) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> pulver og støv
Regulatory reference	BEK nr 1458 af 13/12/2019
<b>Finland - Occupational Exposure Limits</b>	
Local name	Kupari, metalli
HTP-arvo (8h) (mg/m <sup>3</sup> )	0.02 mg/m <sup>3</sup> Cu, alveolijae
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystiete)
<b>France - Occupational Exposure Limits</b>	
Local name	Cuivre
VME (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (fumées) 1 mg/m <sup>3</sup> (poussières), en Cu
VLE (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (poussières), en Cu
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)

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<b>Copper(II) 4-oxopent-2-en-2-olate (13395-16-9)</b>	
<b>Hungary - Occupational Exposure Limits</b>	
Local name	RÉZ és vegyületei (Cu-re számítva)
AK-érték	0.1 mg/m <sup>3</sup> 0.01 mg/m <sup>3</sup> füst, respirábilis frakció
CK-érték	0.2 mg/m <sup>3</sup>
Megjegyzések (HU)	R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkeznek)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Varš
OEL TWA (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
OEL STEL (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
<b>Netherlands - Occupational Exposure Limits</b>	
Local name	Koper
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> en anorganische koperverbindingen (inhaleerbaar)
Regulatory reference	Arbeidsomstandighedenregeling 2020
<b>Poland - Occupational Exposure Limits</b>	
Local name	Miedź i jej związki nieorganiczne
NDS (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> w przeliczeniu na Cu
Regulatory reference	Dz. U. 2018 poz. 1286
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Cobre
OEL TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> Fumos, expressos em Cu 1 mg/m <sup>3</sup> Poeiras e névoas, expressos em Cu
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Meď a jej anorganické zlúčeniny (ako Cu)
NPHV (priemerná) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> inhalovateľná frakcia 0.2 mg/m <sup>3</sup> respirabilná frakcia a dymy
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
<b>Spain - Occupational Exposure Limits</b>	
Local name	Cobre
VLA-ED (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> Fracción respirable
Notes	d (Véase UNE EN 481: Atmósferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Koppar, och oorg. Föreningar (som Cu)
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	0.01 mg/m <sup>3</sup> respirabel fraktion
Anmärkning (SE)	3 (Den respirabla fraktionen är de inhalerbara partiklar som når längst ner i luftvägarna, till alveolerna i lungorna)

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<b>Copper(II) 4-oxopent-2-en-2-olate (13395-16-9)</b>	
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
<b>Norway - Occupational Exposure Limits</b>	
Local name	Kobber
Grenseverdier (AN) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> Røyk 1 mg/m <sup>3</sup> Støv
Regulatory reference	FOR-2020-04-06-695

<b>Aluminum hydroxide (21645-51-2)</b>	
<b>Austria - Occupational Exposure Limits</b>	
MAK Daily average value (ppm)	10 ppm (gemessen als einatembarer Aerosolanteil) 5 ppm (alveolengängiger Anteil)
MAK Short time value (ppm)	20 ppm (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 ppm (alveolengängiger Anteil) max. 2x60 min./Schicht
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Alumīnija hidroksīds
OEL TWA (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
Remark (LT)	F
<b>Poland - Occupational Exposure Limits</b>	
Local name	Wodorotlenek glinu
NDS (mg/m <sup>3</sup> )	2.5 mg/m <sup>3</sup> w przeliczeniu na Al: frakcja wdychalna 1.2 mg/m <sup>3</sup> w przeliczeniu na Al: frakcja respirabilna
Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Hydroxid hlinitý
NPHV (priemerná) (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> inhalovateľná frakcia – prach 1.5 mg/m <sup>3</sup> respirabilná frakcia – prach
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
<b>Switzerland - Occupational Exposure Limits</b>	
VME (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Remark	(alveolengängige Fraktion)

## 8.2. Exposure controls

### Appropriate engineering controls:

Avoid creating mist or spray. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

### Personal protective equipment:

Avoid all unnecessary exposure.

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### Hand protection:

Wear suitable gloves resistant to chemical penetration. Butyl rubber gloves. barrier laminate. Fluoroelastomer (FKM). EN374

### Eye protection:

Chemical goggles or safety glasses. face shield. EN166

### Skin and body protection:

Wear suitable protective clothing. Chemical resistant apron. Chemical resistant safety shoes

### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Approved organic vapour respirator. Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material. EN 136/140. EN 12083

### Environmental exposure controls:

Prevent leakage or spillage.

### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Paste.
Colour	: white. Purple.
Odour	: Solvent.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapour.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 30000 – 100000 cP
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions. Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

Hazardous Polymerization may occur.

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### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers. Free radical initiators.

### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Methyl methacrylate. hydrocarbons.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

Methyl methacrylate (80-62-6)	
LD50 oral rat	7900 – 9400 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	29.8 mg/l/4h

Methoxyphenol (150-76-5)	
LD50 dermal rat	> 2000 mg/kg bodyweight OECD No 423

Methyl methacrylate/Butadiene/Styrene Copolymer (25053-09-2)	
LD50 oral	> 10000 mg/kg mouse, read-across

2-(2-ethoxyethoxy)ethyl acrylate (7328-17-8)	
LD50 oral rat	1106 mg/kg
LD50 dermal rabbit	1000 – 2000 mg/kg male

Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg EU Method B.
LC50 inhalation rat (mg/l)	> 20 mg/l/4h OECD Guideline 403

Methacrylate acid ester (52628-03-2)	
LD50 oral rat	> 5000 mg/kg

1,4-naphthoquinone (130-15-4)	
LD50 oral rat	190 mg/kg
LD50 dermal rat	202 mg/kg
LC50 inhalation rat (mg/l)	0.046 mg/l/4h

$\alpha,\alpha$ -dimethylbenzyl hydroperoxide (80-15-9)	
LD50 oral rat	382 mg/kg

cumene (98-82-8)	
LD50 oral rat	4000 mg/kg
LD50 dermal rabbit	10600 mg/kg
LC50 inhalation rat (mg/l)	22.1 mg/l
LC50 inhalation rat (ppm)	4510 ppm/4h

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### Methacrylic acid (79-41-4)

LD50 oral rat	1320 mg/kg
LD50 dermal rabbit	500 – 1000 mg/kg
LC50 inhalation rat (mg/l)	7.1 mg/l/4h

### Paraffin waxes (8002-74-2)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

### 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine (34562-31-7)

LD50 oral rat	> 500 mg/kg
LD50 dermal rabbit	> 1000 mg/kg

### 2,6-di-tert-butyl-4-methylphenol (128-37-0)

LD50 oral rat	890 mg/kg
LD50 dermal rat	> 2000 mg/kg

Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS

: 12.13% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)  
: 12.13% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)  
: 12.13% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Skin corrosion/irritation

: Causes severe skin burns.

Serious eye damage/irritation

: Causes serious eye damage.

Respiratory or skin sensitisation

: May cause an allergic skin reaction.

Germ cell mutagenicity

: Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity

: Not classified (Based on available data, the classification criteria are not met)

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

IARC group	3 - Not classifiable
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### Talc (14807-96-6)

IARC group	3 - Not classifiable
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### Toluene (108-88-3)

IARC group	3 - Not classifiable
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### cumene (98-82-8)

IARC group	2B - Possibly carcinogenic to humans
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### 2,6-di-tert-butyl-4-methylphenol (128-37-0)

IARC group	3 - Not classifiable
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Reproductive toxicity

: Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure

: May cause respiratory irritation.

STOT-repeated exposure

: Not classified (Based on available data, the classification criteria are not met)

### Methoxyphenol (150-76-5)

LOAEL (oral, rat, 90 days)	300 mg/kg bodyweight OECD Guideline 422
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight OECD Guideline 422

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### Toluene (108-88-3)

LOAEC (inhalation, rat, gas, 90 days)	1250 ppmv/6h/day
NOAEL (oral, rat, 90 days)	625 mg/kg bodyweight/day EU Method B.26.
NOAEC (inhalation, rat, gas, 90 days)	300 ppmv/6h/day OECD Guideline 453

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

## SECTION 12: Ecological information

### 12.1. Toxicity

Unknown hazards to the aquatic environment (CLP) : Contains 18.05 % of components with unknown hazards to the aquatic environment

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

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

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

LC50 fish 1	> 79 mg/l 96 h
EC50 crustacea	69 mg/l 48 h

### Methoxyphenol (150-76-5)

LC50 fish 1	28.5 mg/l <i>Oncorhynchus mykiss</i>
EC50 crustacea	3 mg/l <i>Daphnia magna</i>
EC50 72h algae (1)	54.7 mg/l <i>Pseudokirchneriella subcapitata</i>
EC50 72h algae (2)	19 mg/l <i>Pseudokirchneriella subcapitata</i>
LOEC (chronic)	> 1.45 mg/l <i>Daphnia magna</i>
NOEC (chronic)	0.68 mg/l <i>Daphnia magna</i>

### 2-(2-ethoxyethoxy)ethyl acrylate (7328-17-8)

LC50 fish 1	> 2.5 mg/l 96 h <i>Oncorhynchus mykiss</i>
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### Toluene (108-88-3)

LC50 fish 1	5.5 mg/l
EC50 <i>Daphnia</i> 2	3.78 mg/l
ErC50 (algae)	134 mg/l
LOEC (chronic)	2.77 mg/l
NOEC chronic fish	1.39 mg/l
NOEC chronic crustacea	0.74 mg/l

### Methacrylate acid ester (52628-03-2)

LC50 fish 1	> 112 mg/l 96 h <i>Oncorhynchus mykiss</i>
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### 1,4-naphthoquinone (130-15-4)

LC50 other aquatic organisms 1	0.011 mg/l 72 h <i>Dunaliella bioculata</i> (algae)
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### $\alpha,\alpha$ -dimethylbenzyl hydroperoxide (80-15-9)

LC50 fish 1	14 mg/l 48 h <i>Leuciscus idus</i>
LC50 fish 2	3.9 mg/l 96 h <i>Oncorhynchus mykiss</i>

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EC50 crustacea	7 mg/l 24 h
EC50 Daphnia 2	18.84 mg/l 48 h
Threshold limit algae 1	1.2 mg/l <i>Microcystis aeruginosa</i>
Threshold limit algae 2	7.4 mg/l <i>Scenedesmus quadricauda</i>

### cumene (98-82-8)

LC50 fish 1	4.8 mg/l
EC50 other aquatic organisms 1	2.14 mg/l
NOEC (acute)	1.9 mg/l

### Methacrylic acid (79-41-4)

LC50 fish 1	85 mg/l 96 h <i>Oncorhynchus mykiss</i>
LC50 fish 2	833 mg/l 96 h <i>Scophthalmus maximus</i>

### Paraffin waxes (8002-74-2)

LC50 fish 1	> 1000 mg/l
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### 2,6-di-tert-butyl-4-methylphenol (128-37-0)

LC50 fish 1	0.199 mg/l 96 h
EC50 crustacea	0.48 mg/l 48 h
EC50 72h algae (1)	0.228 mg/l 96 h
NOEC (acute)	0.15 mg/l 48 h

## 12.2. Persistence and degradability

### Component Bonder

Persistence and degradability	May cause long-term adverse effects in the environment.
-------------------------------	---

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

Persistence and degradability	Readily biodegradable.
BOD (% of ThOD)	94.3 % ThOD

### Methyl methacrylate/Butadiene/Styrene Copolymer (25053-09-2)

Persistence and degradability	Not readily biodegradable.
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### 2-(2-ethoxyethoxy)ethyl acrylate (7328-17-8)

Persistence and degradability	Readily biodegradable.
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### Toluene (108-88-3)

Persistence and degradability	Readily biodegradable.
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### $\alpha,\alpha$ -dimethylbenzyl hydroperoxide (80-15-9)

Persistence and degradability	Not readily biodegradable.
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### cumene (98-82-8)

Persistence and degradability	May cause long-term adverse effects in the environment.
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# Component Bonder

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### 2,6-di-tert-butyl-4-methylphenol (128-37-0)

Persistence and degradability	Product persists.
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### 12.3. Bioaccumulative potential

#### Component Bonder

Bioaccumulative potential	Not established.
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### Methyl methacrylate (80-62-6)

Log Pow	1.38
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### Methyl methacrylate/Butadiene/Styrene Copolymer (25053-09-2)

Bioaccumulative potential	Does not biaccumulate significantly.
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### 2-(2-ethoxyethoxy)ethyl acrylate (7328-17-8)

Log Pow	1.105
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### Toluene (108-88-3)

Bioconcentration factor (BCF REACH)	90
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Log Kow	2.73
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### Methacrylate acid ester (52628-03-2)

Log Kow	1 – 2.72
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### 1,4-naphthoquinone (130-15-4)

Log Pow	1.71
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Bioaccumulative potential	Not expected to bioaccumulate.
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### cumene (98-82-8)

Bioaccumulative potential	Not established.
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### 2,6-di-tert-butyl-4-methylphenol (128-37-0)

Bioconcentration factor (BCF REACH)	2500
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Log Pow	4.17
---------	------

Bioaccumulative potential	Expected to bioaccumulate.
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### 12.4. Mobility in soil

#### Component Bonder

Ecology - soil	Not established.
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### 2,6-di-tert-butyl-4-methylphenol (128-37-0)

Mobility in soil	low
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Partition coefficient n-octanol/water (Log Koc)	4.36
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### 12.5. Results of PBT and vPvB assessment

#### Component Bonder

PBT: not yet assessed
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vPvB: not yet assessed
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### 12.6. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.  
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Additional information : Handle empty containers with care because residual vapours are flammable. Hazardous waste due to potential risk of explosion.  
Ecology - waste materials : Avoid release to the environment.  
European List of Waste (LoW) code : For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.  
HP Code : HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.  
HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment  
HP3 - "Flammable:"  
— flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;  
— flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;  
— flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;  
— flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;  
— water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;  
— other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.  
HP4 - "Irritant — skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.  
HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.  
HP8 - "Corrosive:" waste which on application can cause skin corrosion.

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No. (ADR) : UN 2920  
UN-No. (IMDG) : UN 2920  
UN-No. (IATA) : UN 2920  
UN-No. (ADN) : UN 2920  
UN-No. (RID) : UN 2920

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Methacrylic acid, Methyl methacrylate)  
Proper Shipping Name (IMDG) : CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Methacrylic acid, Methyl methacrylate)  
Proper Shipping Name (IATA) : CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Methacrylic acid, Methyl methacrylate)  
Proper Shipping Name (ADN) : CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Methacrylic acid, Methyl methacrylate)  
Proper Shipping Name (RID) : CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Methacrylic acid, Methyl methacrylate)  
Transport document description (ADR) : UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Methacrylic acid, Methyl methacrylate), 8 (3), I, (D/E)  
Transport document description (IMDG) : UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Methacrylic acid, Methyl methacrylate), 8 (3), I  
Transport document description (IATA) : UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Methacrylic acid, Methyl methacrylate), 8 (3) (3), I  
Transport document description (ADN) : UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Methacrylic acid, Methyl methacrylate), 8 (3), I  
Transport document description (RID) : UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Methacrylic acid, Methyl methacrylate), 8 (3), I

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### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 8 (3)

Danger labels (ADR) : 8, 3



#### IMDG

Transport hazard class(es) (IMDG) : 8 (3)

Danger labels (IMDG) : 8, 3



#### IATA

Transport hazard class(es) (IATA) : 8 (3)

Danger labels (IATA) : 8, 3



#### ADN

Transport hazard class(es) (ADN) : 8 (3)

Danger labels (ADN) : 8, 3



#### RID

Transport hazard class(es) (RID) : 8 (3)

Danger labels (RID) : 8, 3



### 14.4. Packing group

Packing group (ADR) : I

Packing group (IMDG) : I

Packing group (IATA) : I

Packing group (ADN) : I

Packing group (RID) : I

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : CF1

Special provisions (ADR) : 274

Limited quantities (ADR) : 0

Excepted quantities (ADR) : E0

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Packing instructions (ADR)	: P001
Mixed packing provisions (ADR)	: MP8, MP17
Portable tank and bulk container instructions (ADR)	: T14
Portable tank and bulk container special provisions (ADR)	: TP2, TP27
Tank code (ADR)	: L10BH
Vehicle for tank carriage	: FL
Transport category (ADR)	: 1
Special provisions for carriage - Operation (ADR)	: S2, S14
Hazard identification number (Kemler No.)	: 883
Orange plates	:



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

### Transport by sea

Special provisions (IMDG)	: 274
Packing instructions (IMDG)	: P001
Tank instructions (IMDG)	: T14
Tank special provisions (IMDG)	: TP2, TP27
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-C
Stowage category (IMDG)	: C
Stowage and handling (IMDG)	: SW1, SW2

### Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: 850
PCA max net quantity (IATA)	: 0.5L
CAO packing instructions (IATA)	: 854
CAO max net quantity (IATA)	: 2.5L
ERG code (IATA)	: 8F

### Inland waterway transport

Classification code (ADN)	: CF1
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1

### Rail transport

Classification code (RID)	: CF1
Special provisions (RID)	: 274
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P001
Mixed packing provisions (RID)	: MP8, MP17
Portable tank and bulk container instructions (RID)	: T14
Portable tank and bulk container special provisions (RID)	: TP2, TP27
Tank codes for RID tanks (RID)	: L10BH
Special provisions for RID tanks (RID)	: TU38, TE22
Transport category (RID)	: 1
Hazard identification number (RID)	: 883

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

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### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code	Applicable on	Entry title or description
3(a)	Component Bonder ; Methyl methacrylate ; Toluene ; $\alpha,\alpha$ -dimethylbenzyl hydroperoxide ; cumene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	Component Bonder ; Methyl methacrylate ; 2-(2-ethoxyethoxy)ethyl acrylate ; Toluene ; Methacrylic acid ; $\alpha,\alpha$ -dimethylbenzyl hydroperoxide ; cumene ; 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	Component Bonder ; Toluene ; $\alpha,\alpha$ -dimethylbenzyl hydroperoxide ; cumene ; 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
40.	Component Bonder ; Methyl methacrylate ; Toluene ; cumene	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.
48.	Toluene	Toluene

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

### 15.1.2. National regulations

#### Germany

Water hazard class (WGK)

: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal

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

Immission Control Act - 12.BImSchV

#### Netherlands

SZW-lijst van kankerverwekkende stoffen

: Paraffin waxes is listed

SZW-lijst van mutagene stoffen

: Paraffin waxes is listed

NIET-limitatieve lijst van voor de voortplanting

: None of the components are listed

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

: None of the components are listed

giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

: Toluene is listed

giftige stoffen – Ontwikkeling

#### Denmark

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

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Indication of changes:

Supplier information.

### Abbreviations and acronyms:

ATE: Acute Toxicity Estimate

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	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	European List of Waste (LoW) code
	LD50: Lethal Dose for 50% of the test population
	TWA: Time Weighted Average
	STEL: Short Term Exposure Limits
	PBT: Persistent, Bioaccumulative, Toxic
	WEL: Workplace Exposure Limit
vPvB	Very Persistent and Very Bioaccumulative

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. Manufacturer Information. United Nations Economic Commission for Europe: About the GHS. Accessed at [http://www.unece.org/trans/danger/publi/ghs/ghs\\_welcome\\_e.html](http://www.unece.org/trans/danger/publi/ghs/ghs_welcome_e.html).

Other information : None.

Full text of H- and EUH-statements:	
Acute Tox. 1 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 1
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) 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 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
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Org. Perox. E	Organic Peroxides, Type E
Repr. 2	Reproductive toxicity, Category 2

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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
Skin Sens. 1B	Skin sensitisation, category 1B
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
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

Flam. Liq. 2	H225	Calculation method
Skin Corr. 1A	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 3	H412	Calculation method

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