

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : ISOLATEK® Type WB 3 – WB 3 TG

#### 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  
Use of the substance/mixture : For professional use only

##### 1.2.2. Uses advised against

No additional information available

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

Supplier:

Isolatek International (Europe) Ltd.  
17 Wellington Street  
Ripley, Derbyshire  
DE5 3EH  
Toll Free: 1 800 631 9600  
[Reach@isolatek.com](mailto:Reach@isolatek.com)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC 1 800 424 9300 (North America), +1 703 527 3887 (International)

### SECTION 2: Hazards identification

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

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

Not classified

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

No additional information available

#### 2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

other hazards which do not result in classification : This product contains greater than 0.1% by weight titanium dioxide. Titanium dioxide inhalation studies in rats indicate that there is sufficient evidence that inhalation of excessive amounts of titanium dioxide is carcinogenic in the lungs of experimental animals. Titanium dioxide is classified as "Group 2B (possibly carcinogenic to humans)" by IARC. Titanium dioxide is in a form that is not available for respiration.

### 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]
Ethylene glycol monobutyl ether	(CAS-No.) 111-76-2 (EC-No.) 203-905-0 (EC Index-No.) 603-014-00-0	1 - 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319

Full text of H-statements: see section 16

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### 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 you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- First-aid measures after skin contact : If skin irritation or rash occurs: Wash off immediately with soap and plenty of water.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

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

- Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 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 : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : None known.

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

- Fire hazard : Presents no particular fire or explosion hazard. On combustion, forms: carbon oxides (CO and CO<sub>2</sub>). Thermal decomposition can lead to the release of irritating gases and vapours.
- Explosion hazard : No direct explosion hazard.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 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.
- Protective equipment for firefighters : Do not attempt to take action without suitable protective equipment.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Dispose in a safe manner in accordance with local/national regulations.

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

- Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
- Other information : Dispose in a safe manner in accordance with local/national regulations.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations".

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container closed when not in use. Avoid extreme heat or cold. Store above freezing.
- Incompatible materials : None known.

#### 7.3. Specific end use(s)

See Heading 1.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Titanium dioxide (13463-67-7)	
<b>Austria - Occupational Exposure Limits</b>	
Local name	Titandioxid (Alveolarstaub)
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>
Regulatory reference	BGBI. II Nr. 186/2015
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Titane (dioxyde de) # Titaandioxide
Limit value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Regulatory reference	Koninklijk besluit/Arrêté royal 02/09/2018
<b>Bulgaria - Occupational Exposure Limits</b>	
Local name	Титанов диоксид
OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (респирабилен прах)
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр.73 от 4 септември 2018 г.)
<b>Croatia - Occupational Exposure Limits</b>	
Local name	Titanov dioksid
GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> U (ukupna prašina) 4 mg/m <sup>3</sup> R (respirabilna prašina)
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Titandioxid
Grænseværdie (langvarig) (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> beregnet som Ti
Regulatory reference	BEK nr 655 af 31/05/2018
<b>Estonia - Occupational Exposure Limits</b>	
Local name	Titaanoksiid
OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293 (RT I, 30.11.2011, 5)
<b>France - Occupational Exposure Limits</b>	
Local name	Titane (dioxyde de), en Ti
VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
<b>Greece - Occupational Exposure Limits</b>	
Local name	Τιτανίου διοξειδίο
OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> εισπν. 5 mg/m <sup>3</sup> σναπν.
Regulatory reference	Π.Δ. 90/1999
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Titanium dioxide
OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> total inhalable dust 4 mg/m <sup>3</sup> respirable dust

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<b>Titanium dioxide (13463-67-7)</b>	
OEL (15 min ref) (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup> (calculated-respirable dust) 12 mg/m <sup>3</sup> (calculated)
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Titāna dioksīds
OEL TWA (mg/m <sup>3</sup> )	10 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>	
Local name	Titano dioksidas
IPRV (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
<b>Poland - Occupational Exposure Limits</b>	
Local name	Ditlenek tytanu
NDS (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> frakcja wdychalna
Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikażąca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Obowiązuje jednocześnie oznaczanie stężeń frakcji respirabilnej krzemionki krystalicznej.
Regulatory reference	Dz. U. 2018 poz. 1286
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Dióxido de titânio
OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Romania - Occupational Exposure Limits</b>	
Local name	Dioxid de titan
OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
OEL STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Regulatory reference	Hotărârea nr. 584/2018
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Oxid titaničitý
NPHV (priemerná) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
<b>Spain - Occupational Exposure Limits</b>	
Local name	Dióxido de titanio
VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Titandioxid
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> totaldamm
Anmärkning (SE)	3 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagnings av totaldamm och respirabelt damm, Metod nr 1010, Arbetskyddsstyrelsen, 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)

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<b>Titanium dioxide (13463-67-7)</b>	
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Titanium dioxide
WEL TWA (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> respirable 10 mg/m <sup>3</sup> total inhalable
WEL STEL (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup> (calculated-total inhalable) 12 mg/m <sup>3</sup> (calculated-respirable)
Regulatory reference	EH40/2005 (Third edition, 2018). HSE
<b>Iceland - Occupational Exposure Limits</b>	
Local name	Títandíoxíð, sem Ti
OEL (8 hours ref) (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
<b>Norway - Occupational Exposure Limits</b>	
Local name	Titandioksid
Grenseverdier (AN) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (value calculated)
Regulatory reference	FOR-2018-08-21-1255
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Titanium dioxide
ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Remark (ACGIH)	TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2019
<b>Pentaerythritol (115-77-5)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Pentaérythritol # Penta-erythritol
Limit value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Regulatory reference	Koninklijk besluit/Arrêté royal 02/09/2018
<b>Croatia - Occupational Exposure Limits</b>	
Local name	Pentaeritritol
GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust, inhalable particles) 4 mg/m <sup>3</sup> (respirable dust)
KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)
<b>Finland - Occupational Exposure Limits</b>	
Local name	Pentaerytritoli
HTP-arvo (8h) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
HTP-arvo (15 min)	20 mg/m <sup>3</sup>
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteistie) (SOSIAALI- JA TERVEYSTIETEISTIE)
<b>France - Occupational Exposure Limits</b>	
Local name	Pentaérythritol

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<b>Pentaerythritol (115-77-5)</b>	
VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
<b>Greece - Occupational Exposure Limits</b>	
Local name	Πενταερυθρίτολη
OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable fraction) 5 mg/m <sup>3</sup> (respirable fraction)
Regulatory reference	Π.Δ. 90/1999
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Pentaerythritol
OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total inhalable dust) 4 mg/m <sup>3</sup> (respirable dust)
OEL (15 min ref) (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	Pentaeritrolis
IPRV (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Pentaeritritol (Pentacritical)
OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Spain - Occupational Exposure Limits</b>	
Local name	Pentaeritritol
VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable fraction) 4 mg/m <sup>3</sup> (respirable fraction)
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	Pentaerytritol
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (total dust)
Anmärkning (SE)	3 (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, Arbetskyddsstyrelsen, 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	Pentaerythritol
WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable dust) 4 mg/m <sup>3</sup> (respirable dust)
WEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (inhalable dust) 12 mg/m <sup>3</sup> (calculated-respirable dust)
Regulatory reference	EH40/2005 (Third edition, 2018). HSE
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Pentaerythritol

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<b>Pentaerythritol (115-77-5)</b>	
ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Remark (ACGIH)	TLV® Basis: GI irr
Regulatory reference	ACGIH 2019
<b>Melamine (108-78-1)</b>	
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup> (source uses CAS 9003-08-1)
<b>Glass, oxide, chemicals (65997-17-3)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
Limit value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (dust and fiber)
<b>Finland - Occupational Exposure Limits</b>	
HTP-arvo (8h) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> Continuous filament glass fibers (inhalable dust)
<b>White mineral oil, petroleum (8042-47-5)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
Limit value (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Short time value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Czech Republic - Occupational Exposure Limits</b>	
Expoziční limity (PEL) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Denmark - Occupational Exposure Limits</b>	
Grænseværdie (langvarig) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>Finland - Occupational Exposure Limits</b>	
HTP-arvo (8h) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
TRGS 900 Local name	Weißes Mineralöl (Erdöl)
TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-respirable fraction)
TRGS 900 Limitation of exposure peaks	4(II)
TRGS 900 Remark	DFG;Y
TRGS 900 Regulatory reference	TRGS900
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Hungary - Occupational Exposure Limits</b>	
AK-érték	5 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
TPRV (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>

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<b>White mineral oil, petroleum (8042-47-5)</b>	
<b>Netherlands - Occupational Exposure Limits</b>	
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Poland - Occupational Exposure Limits</b>	
NDS (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (priemerná) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
NPHV (priemerná) (ppm)	5 ppm
NPHV (Hraničná) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
NPHV (Hraničná) (ppm)	15 ppm
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
VLA-EC (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Sweden - Occupational Exposure Limits</b>	
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
kortidsvärde (KTV) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
ACGIH STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Ethylene glycol monobutyl ether (111-76-2)</b>	
<b>EU - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol
IOELV TWA (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
IOELV TWA (ppm)	20 ppm
IOELV STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
IOELV STEL (ppm)	50 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Austria - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol
MAK (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
MAK (ppm)	20 ppm
MAK Short time value (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
MAK Short time value (ppm)	40 ppm
Remark (AT)	H
OEL chemical category (AT)	Skin notation
Regulatory reference	BGBI. II Nr. 186/2015
<b>Belgium - Occupational Exposure Limits</b>	
Local name	2-Butoxyéthanol # 2-Butoxy-ethanol
Limit value (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>



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<b>Ethylene glycol monobutyl ether (111-76-2)</b>	
Limit value (ppm)	20 ppm
Short time value (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
Short time value (ppm)	50 ppm
Remark (BE)	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
OEL chemical category (BE)	Skin, Skin notation
Regulatory reference	Koninklijk besluit/Arrêté royal 02/09/2018
<b>Bulgaria - Occupational Exposure Limits</b>	
Local name	2-Бутоксиетанол
OEL TWA (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
OEL STEL (ppm)	50 ppm
Notes	Кожа (възможна е значителна резорбция чрез кожата); • (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр.73 от 4 септември 2018 г.)
<b>Croatia - Occupational Exposure Limits</b>	
Local name	2-Butoksietanol; etilen-glikol monobutil-eter; butilov celosolv
GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
GVI (granična vrijednost izloženosti) (ppm)	20 ppm
KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	50 ppm
Naznake (HR)	Direktiva: 2000/39/EZ. Napomena: Koža (razvrstana kao tvar koja nadražuje kožu (H315))
OEL chemical category (HR)	Skin notation
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
OEL STEL (ppm)	50 ppm
OEL chemical category (CY)	Skin-potential for cutaneous absorption
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	2-Butoxyethan-1-ol (Butylcellosolv; Ethylenglykolmonobutylether)
Expoziční limity (PEL) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Expoziční limity (PEL) (ppm)	21 ppm
Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Expoziční limity (NPK-P) (ppm)	41 ppm

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<b>Ethylene glycol monobutyl ether (111-76-2)</b>	
Remark (CZ)	D (při expozici se významně uplatňuje pronikání látky kůží), I (dráždí sliznice (oči, dýchací cesty) resp. Kůži)
OEL chemical category (CZ)	Potential for cutaneous absorption
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 246/2018 Sb.)
<b>Czech Republic - Biological limit values</b>	
Czech Republic - BLV	200 mg/g creatinine Parameter: Butoxyacetic acid - Medium: urine - Sampling time: end of shift at end of workweek (after hydrolysis) 0.17 mmol/mmol Creatinine Parameter: Butoxyacetic acid - Medium: urine - Sampling time: end of shift at end of workweek (after hydrolysis)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Butylglycol (2-Butoxyethanol; Butylcellosolve; Ethylenglycolmonobutylether)
Grænseværdie (langvarig) (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
Grænseværdie (langvarig) (ppm)	20 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
OEL chemical category (DK)	Potential for cutaneous absorption
Regulatory reference	BEK nr 655 af 31/05/2018
<b>Estonia - Occupational Exposure Limits</b>	
Local name	2-butoksüetanool (o-butüületüleenglükool, etüleenglükoolmono-butüüleeter, butüültsellosolv)
OEL TWA (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
OEL STEL (ppm)	50 ppm
Remark (ET)	A (Naha kaudu kergesti absorbeeruvad ained), S (Sensibiliseerivad ained)
OEL chemical category (ET)	Sensitizer, Skin notation
Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293 (RT I, 30.11.2011, 5)
<b>Finland - Occupational Exposure Limits</b>	
Local name	2-Butoksietanoli
HTP-arvo (8h) (mg/m <sup>3</sup> )	98 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
OEL chemical category (FI)	Potential for cutaneous absorption
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
<b>France - Occupational Exposure Limits</b>	
Local name	2-Butoxyéthanol (Butylglycol)
VME (mg/m <sup>3</sup> )	49 mg/m <sup>3</sup>
VME (ppm)	10 ppm
VLE (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
VLE (ppm)	50 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée
OEL chemical category (FR)	Risk of cutaneous absorption
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016)

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<b>Ethylene glycol monobutyl ether (111-76-2)</b>	
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
TRGS 900 Local name	2-Butoxyethanol
TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	49 mg/m <sup>3</sup>
TRGS 900 Occupational exposure limit value (ppm)	10 ppm
TRGS 900 Limitation of exposure peaks	2(l)
TRGS 900 Remark	EU;DFG;H;Y
TRGS 900 chemical category	Skin notation
TRGS 900 Regulatory reference	TRGS900
<b>Germany - Biological limit values (TRGS 903)</b>	
TRGS 903 Local name	2-Butoxyethanol
TRGS 903 Biological limit value	150 mg/g creatinine Parameter: Butoxyacetic acid (after hydrolysis) - Medium: urine - Sampling time: for long-term exposures: at the end of the shift after several shifts 150 mg/g creatinine Parameter: Butoxyacetic acid (after hydrolysis) - Medium: urine - Sampling time: end of shift
TRGS 903 Regulatory reference	TRGS 903
<b>Gibraltar - Occupational Exposure Limits</b>	
Name of agent	2-Butoxyethanol
Eight hours mg/m <sup>3</sup>	98 mg/m <sup>3</sup>
Eight hours ppm	20 ppm
Short-term mg/m <sup>3</sup>	246 mg/m <sup>3</sup>
Short-term ppm	50 ppm
Notation	Skin
OEL chemical category (GI)	Skin notation
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)
<b>Greece - Occupational Exposure Limits</b>	
Local name	Βουτοξυ-αιθανόλη, 2-
OEL TWA (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup>
OEL TWA (ppm)	25 ppm
OEL chemical category (GR)	skin - potential for cutaneous absorption
Regulatory reference	Π.Δ. 90/1999
<b>Hungary - Occupational Exposure Limits</b>	
Local name	2-BUTOXIETANOL (butil-celloszolv, butil-glikol, etilénlikol-monobutil-éter)
AK-érték	98 mg/m <sup>3</sup>
CK-érték	246 mg/m <sup>3</sup>
Megjegyzések (HU)	b (Bőrön át is felszívódik), i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármat); II.1 (FELSZÍVÓDVA HATÓ ANYAGOK (Az anyag hatásának fellépése 2 órán belül; Felezési idő < 2 óra))., EU1 (2000/39/EK irányelvben közölt érték)
OEL chemical category (HU)	Potential for cutaneous absorption
Regulatory reference	25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról
<b>Ireland - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol (EGBE)
OEL (8 hours ref) (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	20 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
OEL (15 min ref) (ppm)	50 ppm

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<b>Ethylene glycol monobutyl ether (111-76-2)</b>	
Notes (IE)	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)
OEL chemical category (IE)	Potential for cutaneous absorption
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
<b>Italy - Occupational Exposure Limits</b>	
Local name	Butossietanolo-2
OEL TWA (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
OEL STEL (ppm)	50 ppm
Notes	pelle
OEL chemical category (IT)	skin - potential for cutaneous absorption
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
<b>Latvia - Occupational Exposure Limits</b>	
Local name	2-Butoksietanols, (etilēnglikola monobutilēteris, Butilcelosolvs)
OEL TWA (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
OEL STEL (ppm)	50 ppm
OEL chemical category (LV)	skin - potential for cutaneous exposure
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	Etilenglikolio monobutileteris (butilglikolis, 2-butoksietanolis)
IPRV (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
IPRV (ppm)	10 ppm
TPRV (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
TPRV (ppm)	20 ppm
Remark (LT)	O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą)
OEL chemical category (LT)	Skin notation
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
<b>Luxembourg - Occupational Exposure Limits</b>	
Local name	2-Butoxyéthanol
OEL TWA (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
OEL STEL (ppm)	50 ppm
OEL chemical category (LU)	Possibility of significant uptake through the skin
Regulatory reference	Mémorial A N° 684 de 2018
<b>Malta - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol
OEL TWA (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>

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<b>Ethylene glycol monobutyl ether (111-76-2)</b>	
OEL STEL (ppm)	50 ppm
OEL chemical category (MT)	Possibility of significant uptake through the skin
Regulatory reference	S.L.424.24 (L.N.57 of 2018)
<b>Netherlands - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	246 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.
MAC chemical category	Skin notation
Regulatory reference	Arbeidsomstandighedenregeling 2018
<b>Poland - Occupational Exposure Limits</b>	
Local name	2-Butoksyetanol (butoksyetylowy alkohol)
NDS (mg/m <sup>3</sup> )	98 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	2-Butoxietanol (EGBE)
OEL TWA (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup> (indicative limit value)
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup> (indicative limit value)
OEL STEL (ppm)	50 ppm (indicative limit value)
OEL chemical category (PT)	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, skin - potential for cutaneous exposure indicative limit value
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Romania - Occupational Exposure Limits</b>	
Local name	2-Butoxietanol/Etilenglicol monobutyleter
OEL TWA (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
OEL STEL (ppm)	50 ppm
OEL chemical category (RO)	Skin notation
Regulatory reference	Hotărârea nr. 584/2018
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	2-Butoxyetanol (butylglykol)
NPHV (priemerná) (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
NPHV (priemerná) (ppm)	20 ppm
OEL STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
OEL STEL (ppm)	50 ppm
NPHV (Hraničná) (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
Upozornenie (SK)	K - znamená, že faktor môže byť ľahko absorbovaný kožou

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<b>Ethylene glycol monobutyl ether (111-76-2)</b>	
OEL chemical category (SK)	Potential for cutaneous absorption
Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	2-butoksietanol (butilglikol)
OEL TWA (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m <sup>3</sup> )	246 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
OEL chemical category (SL)	Potential for cutaneous absorption
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
<b>Spain - Occupational Exposure Limits</b>	
Local name	2-Butoxietanol (Butil cellosolve; Éter monobutílico del etilenglicol)
VLA-ED (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
VLA-ED (ppm)	20 ppm
VLA-EC (mg/m <sup>3</sup> )	245 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), VLB® (Agente químico que tiene Valor Límite Biológico).
OEL chemical category (ES)	skin - potential for cutaneous absorption
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
<b>Spain - Biological limit values</b>	
Local name	2-Butoxietanol (Butil cellosolve; Éter monobutílico del etilenglicol)
Spain - BLV	200 mg/g creatinine Parameter: Butoxyacetic acid (with hydrolysis) - Medium: urine - Sampling time: end of shift (with hydrolysis)
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Etylenglykolmonobutyleter (2-Butoxietanol)
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
nivågränsvärde (NVG) (ppm)	10 ppm
kortidsvärde (KTV) (mg/m <sup>3</sup> )	246 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)
OEL chemical category (SE)	Skin notation
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol
WEL TWA (mg/m <sup>3</sup> )	123 mg/m <sup>3</sup>
WEL TWA (ppm)	25 ppm
WEL STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>

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<b>Ethylene glycol monobutyl ether (111-76-2)</b>	
WEL STEL (ppm)	50 ppm
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
WEL chemical category	Potential for cutaneous absorption
Regulatory reference	EH40/2005 (Third edition, 2018). HSE
<b>Iceland - Occupational Exposure Limits</b>	
Local name	2-Bútoxyetanól (bútýlglykól, bútýlsellósov, etýlenglykólmonóbútýleter, glykólmonóbútýleter)
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> )	246 mg/m <sup>3</sup>
OEL (15 min ref) (ppm)	50 ppm
Notes (IS)	H (efnið getur auðveldlega borist inn í líkamann gegnum húð)
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
<b>Norway - Occupational Exposure Limits</b>	
Local name	2-butoksyetanol (Butylglykol; Etylenglykolmonobutyleter)
Grenseverdier (AN) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Grenseverdier (AN) (ppm)	10 ppm
Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	75 mg/m <sup>3</sup> (value calculated)
Grenseverdier (Korttidsverdi) (ppm)	15 ppm (value calculated)
Merknader (NO)	H (Kjemikalier som kan tas opp gjennom huden); E (EU har en veiledende grenseverdi for stoffet)
OEL chemical category (NO)	Skin notation
Regulatory reference	FOR-2018-08-21-1255
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol (EGBE)
ACGIH TWA (ppm)	20 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2019
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	2- BUTOXYETHANOL
Biological Exposure Indices (BEI)	200 mg/g creatinine Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift
Regulatory reference	ACGIH 2019
<b>Aluminium hydroxide (21645-51-2)</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>
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	1.25 mg/m <sup>3</sup>

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<b>Aluminium hydroxide (21645-51-2)</b>	
<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>	
Local name	Aliuminio hidroksidas
IPRV (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
Remark (LT)	F (fibrogeninis poveikis)
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
<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
NDSCh (mg/m <sup>3</sup> )	1.2 mg/m <sup>3</sup> w przeliczeniu na Al: frakcja respirabilna
Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikająca 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>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protective equipment:

Gloves. Safety glasses. Insufficient ventilation: wear respiratory protection.

#### Hand protection:

Impermeable protective gloves. EN 374

#### Eye protection:

Chemical goggles or safety glasses. EN 166

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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



#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during use.



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### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Viscous. Paste.
Colour	: White.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: 8
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 0 °C
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.32 g/cm <sup>3</sup>
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
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

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

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

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

### 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)

#### Ethylene glycol monobutyl ether (111-76-2)

LD50 oral rat	470 mg/kg
LC50 inhalation rat (ppm)	486 ppm/4h

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 8
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 8

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

Ethylene glycol monobutyl ether (111-76-2)	
IARC group	3 - Not classifiable

Melamine (108-78-1)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: This material has not been tested for environmental effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)

Ethylene glycol monobutyl ether (111-76-2)	
LC50 fish 1	1490 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 fish 2	2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

Ethylene glycol monobutyl ether (111-76-2)	
Log Pow	0.81 (at 25 °C)

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Additional information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

### SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

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

Reference to AwSV

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

WGK remark

: Most stringent classification due to insufficient data

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

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

##### Netherlands

SZW-lijst van kankerverwekkende stoffen

: None of the components are listed

SZW-lijst van mutagene stoffen

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: None of the components are listed

##### 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

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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### SECTION 16: Other information

Other information : None.

Full text of H- and EUH-statements:	
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
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
EUH210	Safety data sheet available on request.

SDS EU (REACH Annex II)

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