



# Complete Engine Treatment

## Safety Data Sheet

according to Regulation (EU) 2015/830

Reference number: LUK1606008

Issue date: 6/27/2016 Revision date: 9/24/2020 Supersedes: 3/14/2019 Version: 3.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Complete Engine Treatment  
Product code : [Redacted]

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Use of the substance/mixture : Lubricant

##### 1.2.2. Uses advised against

Restrictions on use : No additional information available

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

Lucas Oil Products UK Ltd  
Unit 4 Cunliffe Drive  
Llangefni Industrial Estate  
LL77 7JA Llangefni  
Anglesey - UK  
T 01248 723 666  
[Info@LucasOil.co.uk](mailto:Info@LucasOil.co.uk) - [www.lucasoil.co.uk](http://www.lucasoil.co.uk)



#### 1.4. Emergency telephone number

Emergency number : ChemTel  
1-800-255-3924 (USA, Canada, Puerto Rico, US V.I.)  
+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	
IRELAND	National Poisons Information Centre	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166	

### SECTION 2: Hazards identification

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

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

Aspiration hazard, Category 1 H304  
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) :



GHS08

Signal word (CLP) : Danger  
Hazardous ingredients : Distillates (petroleum), hydrotreated light  
Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways.  
Precautionary statements (CLP) : P102 - Keep out of reach of children.  
P301+P310 - If swallowed: Immediately call a poison center or doctor.  
P331 - Do NOT induce vomiting.  
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.

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### 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]
Distillates (petroleum), hydrotreated light	(CAS-No.) 64742-47-8 (EC-No.) 265-149-8 (EC Index-No.) 649-422-00-2	30 - 50	Asp. Tox. 1, H304
Naphthalene	(CAS-No.) 91-20-3 (EC-No.) 202-049-5 (EC Index-No.) 601-052-00-2	< 0.1	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ethylbenzene	(CAS-No.) 100-41-4 (EC-No.) 202-849-4 (EC Index-No.) 601-023-00-4	< 0.1	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 STOT RE 2, H373 Asp. Tox. 1, H304
Propylene oxide substance listed as REACH Candidate (Methyloxirane (Propylene oxide))	(CAS-No.) 75-56-9 (EC-No.) 200-879-2 (EC Index-No.) 603-055-00-4	< 0.1	Flam. Liq. 1, H224 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H335
Benzene (Note E (obsolete))	(CAS-No.) 71-43-2 (EC-No.) 200-753-7 (EC Index-No.) 601-020-00-8	< 0.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372 Asp. Tox. 1, H304
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
Ethylene oxide (Note U)	(CAS-No.) 75-21-8 (EC-No.) 200-849-9 (EC Index-No.) 603-023-00-X	< 0.1	Flam. Gas 1A, H220 Press. Gas (Liq.), H280 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:gas), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H335 STOT RE 1, H372
Methanol	(CAS-No.) 67-56-1	< 0.1	Flam. Liq. 2, H225

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	(EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X		Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 STOT SE 1, H370
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### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Methanol	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X	( 3 ≤C < 10) STOT SE 2, H371 ( 10 ≤C < 100) STOT SE 1, H370

Note E : Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'. (obsolete)

Note U (Table 3): When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : If medical advice is needed, have product container or label at hand. Never give anything by mouth to an unconscious person.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Gently wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Risk of aspiration pneumonia. If vomiting occurs have person lean forward.

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

- Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. Abdominal cramps. Risk of aspiration pneumonia.

### 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 : Carbon dioxide. Dry chemical. Foam.
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

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

- Fire hazard : Combustible liquid. Flammable vapours may accumulate in the container. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.
- Explosion hazard : May form flammable/explosive vapour-air mixture. Flammable vapours heavier than air/can accumulate.

### 5.3. Advice for firefighters

- Firefighting instructions : Cool adjacent structures and containers with water spray to protect and prevent ignition.
- Protection during firefighting : 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. Avoid all eye and skin contact and do not breathe vapour and mist.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Refer to section 8.2.

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Emergency procedures : Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

Protective equipment : Refer to section 8.2.  
Emergency procedures : Ventilate area. Stop leak if safe to do so.

### 6.2. Environmental precautions

Do not discharge into drains or the environment.

### 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. Stop leak if safe to do so.  
Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container.

### 6.4. Reference to other sections

Section 7: safe handling. Section 8: personal protective equipment.

## 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. Keep away from Sources of ignition. No smoking. Flammable vapours heavier than air/can accumulate. Vapour could travel to source of ignition and flash back.  
Precautions for safe handling : No open flames. No smoking. Avoid all eye and skin contact and do not breathe vapour and mist. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety procedures.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed.  
Storage conditions : Keep in fireproof place. Keep container closed when not in use.  
Incompatible products : Oxidizer.  
Incompatible materials : Heat sources.  
Heat and ignition sources : Keep away from heat, sparks and flame.  
Prohibitions on mixed storage : Incompatible materials.  
Storage area : Store in dry, cool, well-ventilated area.

### 7.3. Specific end use(s)

Cleaner. Lubricant.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Distillates (petroleum), hydrotreated light (64742-47-8)

##### Germany - Occupational Exposure Limits (TRGS 900)

Occupational exposure limit value (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
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#### Naphthalene (91-20-3)

##### EU - Occupational Exposure Limits

Local name	Naphthalene
IOELV TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
IOELV TWA (ppm)	10 ppm
Notes	(Year of adoption 2010)
Regulatory reference	COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations

##### Austria - Occupational Exposure Limits

MAK [mg/m <sup>3</sup> ]	50 mg/m <sup>3</sup>
MAK Daily average value (ppm)	10 ppm
Remark (AT)	(III B,H)

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<b>Naphthalene (91-20-3)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
Limit value [mg/m <sup>3</sup> ]	53 mg/m <sup>3</sup>
Limit value [ppm]	10 ppm
Short time value [mg/m <sup>3</sup> ]	80 mg/m <sup>3</sup>
Short time value [ppm]	15 ppm
Remark (BE)	D
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Naftalen
Expoziční limity (PEL) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Expoziční limity (PEL) (ppm)	9.4 ppm
Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Expoziční limity (NPK-P) (ppm)	19 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Naphthalen
Grænsevædi (8 timer) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Grænsevædi (8 timer) (ppm)	10 ppm
Grænsevædi (STEL) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Grænsevædi (STEL) (ppm)	20 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); 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	Naftaleeni
HTP-arvo (8h) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
HTP-arvo (8h) (ppm)	1 ppm
HTP-arvo (15 min)	10 mg/m <sup>3</sup>
HTP-arvo (15 min) (ppm)	2 ppm
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden tutkimuskeskus)
<b>France - Occupational Exposure Limits</b>	
Local name	Naphtalène
VME [mg/m <sup>3</sup> ]	50 mg/m <sup>3</sup>
VME [ppm]	10 ppm
Note (FR)	Valeurs recommandées/admises; substance classée cancérigène de catégorie 2
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
TRGS 900 Local name	Naphthalin
Occupational exposure limit value (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Occupational exposure limit value (ppm)	0.4 ppm
Limitation of exposure peaks (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>

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<b>Naphthalene (91-20-3)</b>	
Limitation of exposure peaks (ppm)	0.1 ppm
Peak exposure limitation factor	4(l)
TRGS 900 Remark	AGS;H;Y;11;27
TRGS 900 Regulatory reference	TRGS900
<b>Hungary - Occupational Exposure Limits</b>	
Local name	NAFTALIN
AK-érték	50 mg/m <sup>3</sup>
Megjegyzések (HU)	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát); EU91 (91/322/EGK 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) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	10 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	75 mg/m <sup>3</sup>
OEL (15 min ref) (ppm)	15 ppm
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Naftalīns
OEL TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
OEL TWA (ppm)	10 ppm
Remark (LV)	Carc. 2
Regulatory reference	Ministru kabineta 2008. gada 29. septembra noteikumi Nr. 803 (Grozījumi Ministru kabineta 2020. gada 7. janvārī noteikumiem Nr. 10).
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
IPRV (ppm)	10 ppm
Remark (LT)	K
<b>Netherlands - Occupational Exposure Limits</b>	
Local name	Naftaleen
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
Regulatory reference	Arbeidsomstandighedenregeling 2020
<b>Poland - Occupational Exposure Limits</b>	
Local name	Naftalen
NDS (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
NDSCh (mg/m <sup>3</sup> )	50 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	Naftaleno

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<b>Naphthalene (91-20-3)</b>	
OEL TWA (ppm)	10 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Portugal - Biological limit values</b>	
Local name	Naftaleno
Portugal (BEI)	Parâmetro: 1-Naftol + 2-Naftol - Momento da amostragem: Fim do turno - Notação: Nq (Não quantitativo), Ne (Não específico), Com hidrólise
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Naftalén
NPHV (priemerná) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
NPHV (priemerná) (ppm)	10 ppm
OEL STEL (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
OEL STEL (ppm)	15 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	naftalen
OEL TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
OEL TWA (ppm)	10 ppm
OEL STEL (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
OEL STEL (ppm)	10 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), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
<b>Spain - Occupational Exposure Limits</b>	
Local name	Naftaleno
VLA-ED (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup>
VLA-ED (ppm)	10 ppm
VLA-EC (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
VLA-EC (ppm)	15 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	Naftalen
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> )	80 mg/m <sup>3</sup>
kortidsvärde (KTV) (ppm)	15 ppm

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<b>Naphthalene (91-20-3)</b>	
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> )	53 mg/m <sup>3</sup>
WEL TWA (ppm)	10 ppm
WEL STEL (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
WEL STEL [ppm]	15 ppm
Remark (WEL)	The UK Advisory Committee on Toxic Substances has expressed concern that, for these OELs, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list.
<b>Norway - Occupational Exposure Limits</b>	
Local name	Naftalen
Grenseverdier (AN) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Grenseverdier (AN) (ppm)	10 ppm
Merknader (NO)	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> ]	50 mg/m <sup>3</sup>
MAK (ppm)	10 ppm
<b>ethylbenzene (100-41-4)</b>	
<b>EU - Occupational Exposure Limits</b>	
Local name	Ethylbenzene
IOELV TWA (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
IOELV TWA (ppm)	100 ppm
IOELV STEL (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
IOELV STEL (ppm)	200 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Austria - Occupational Exposure Limits</b>	
MAK [mg/m <sup>3</sup> ]	440 mg/m <sup>3</sup> (H)
MAK Daily average value (ppm)	100 ppm (H)
MAK Short time value [mg/m <sup>3</sup> ]	880 mg/m <sup>3</sup> max. 8x5 min./Schicht (gemessen als Momentanwert), (H)
MAK Short time value [ppm]	200 ppm max. 8x5 min./Schicht (gemessen als Momentanwert), (H)
<b>Belgium - Occupational Exposure Limits</b>	
Limit value [mg/m <sup>3</sup> ]	442 mg/m <sup>3</sup>
Limit value [ppm]	100 ppm
Short time value [mg/m <sup>3</sup> ]	551 mg/m <sup>3</sup>
Short time value [ppm]	125 ppm
Remark (BE)	D



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ethylbenzene (100-41-4)	
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Ethylbenzen
Expoziční limity (PEL) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Expoziční limity (PEL) (ppm)	45 ppm
Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Expoziční limity (NPK-P) (ppm)	114 ppm
Remark (CZ)	D - při expozici se významně uplatňuje pronikání faktoru kůží, B - u látky je zaveden biologický expoziční test (BET) v moči nebo krvi.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
<b>Czech Republic - Biological limit values</b>	
Local name	Ethylbenzen
Czech Republic - BLV	1500 mg/g creatinine Ukazatel: Mandlová kyselina - Biološki uzorak: moči - Doba odběru: konec směny 1100 µmol/mmol Creatinine Ukazatel: Mandlová kyselina - Biološki uzorak: moči - Doba odběru: konec směny
Regulatory reference	Vyhláška č. 107/2013 Sb. (kterou se mění vyhláška č. 432/2003 Sb.)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Ethylbenzen
Grænsevædi (8 timer) (mg/m <sup>3</sup> )	217 mg/m <sup>3</sup>
Grænsevædi (8 timer) (ppm)	50 ppm
Grænsevædi (STEL) (mg/m <sup>3</sup> )	434 mg/m <sup>3</sup>
Grænsevædi (STEL) (ppm)	100 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); 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	Etylibentseeni
HTP-arvo (8h) (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup> iho
HTP-arvo (8h) (ppm)	50 ppm iho 5.2 ppm (Virtsan mantelihappo, Työvuoron päätyttyä työviikon tai altistumisjakson loputtua)
HTP-arvo (15 min)	880 mg/m <sup>3</sup> iho
HTP-arvo (15 min) (ppm)	200 ppm iho
<b>Finland - Biological limit values</b>	
Local name	Etylibentseeni
Finland - BLV	5.2 mmol/l Parametri: Virtsan mantelihappo - Näytteenottoajankohta: Työvuoron päätyttyä työviikon tai altistumisjakson loputtua
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
<b>France - Occupational Exposure Limits</b>	
Local name	Ethylbenzène
VME [mg/m <sup>3</sup> ]	88.4 mg/m <sup>3</sup>
VME [ppm]	20 ppm
VLE [mg/m <sup>3</sup> ]	442 mg/m <sup>3</sup>

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<b>ethylbenzene (100-41-4)</b>	
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	Ethylbenzol
Occupational exposure limit value (mg/m <sup>3</sup> )	88 mg/m <sup>3</sup>
Occupational exposure limit value (ppm)	20 ppm
Peak exposure limitation factor	2(II)
TRGS 900 Remark	DFG;H;Y;EU
TRGS 900 Regulatory reference	TRGS900
<b>Germany - Biological limit values (TRGS 903)</b>	
TRGS 903 Biological limit value	1 mg/l Ethylbenzol (Blut; Expositionsende bzw. Schichtende) 800 mg/l Mandelsäure + Phenylglyoxylsäure (Urin; Expositionsende bzw. Schichtende)
<b>Hungary - Occupational Exposure Limits</b>	
Local name	ETILBENZOL
AK-érték	442 mg/m <sup>3</sup>
CK-érték	884 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); EU1 (2000/39/EK irányelvben közölt érték); T (Azok az anyagok, amelyek egészségkárosító hatása TARTÓS expozíciót követően jelentkezik)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
<b>Hungary - Biological limit values</b>	
Local name	Etilbenzol
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> )	442 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	100 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
OEL (15 min ref) (ppm)	200 ppm
<b>Italy - Occupational Exposure Limits</b>	
Local name	Etilbenzene
OEL TWA (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
OEL STEL (ppm)	200 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	Etilbenzols

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<b>ethylbenzene (100-41-4)</b>	
OEL TWA (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
OEL STEL (ppm)	200 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>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
IPRV (ppm)	100 ppm
TPRV (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
TPRV (ppm)	200 ppm
Remark (LT)	O
<b>Netherlands - Occupational Exposure Limits</b>	
Local name	Ethylbenzeen
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	215 mg/m <sup>3</sup>
Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	430 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	Etylobenzen
NDS (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
NDSCh (mg/m <sup>3</sup> )	400 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	Etilbenzeno
OEL TWA (ppm)	20 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Portugal - Biological limit values</b>	
Local name	Etilbenzeno
Portugal (BEI)	0.7 g/g creatinine Parâmetro: Soma do ácido mandélico e do ácido fenilfloxílico - Meio: urina - Momento da amostragem: Fim do turno - Notação: Ne (Não específico)
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Etylbenzén
NPHV (priemerná) (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
NPHV (priemerná) (ppm)	100 ppm

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<b>ethylbenzene (100-41-4)</b>	
OEL STEL (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
OEL STEL (ppm)	200 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	Etylbenzén
Slovakia - BLV	12 mg/l Zisťovaný faktor: 2 - a 4 -Etylfenol - Vyšetrovaný materiál: moč - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny, c) pri dlhodobej expozícii; po viacerých pracovných zmenách 1600 mg/l Zisťovaný faktor: Kyselina mandľová a kyselina fenylglyoxylová - Vyšetrovaný materiál: moč - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny, c) pri dlhodobej expozícii; po viacerých pracovných zmenách
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (Zmena: 471/2011 Z.z.)
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	etilbenzen
OEL TWA (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
OEL STEL (ppm)	200 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), EKA (Zveza med koncentracijo rakotvornih snovi v zraku na delovnem mestu in količino snovi in/ali njenih metabolitov v organizmu), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
<b>Slovenia - Biological limit values</b>	
Local name	etilbenzen
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
<b>Spain - Occupational Exposure Limits</b>	
Local name	Etilbenceno
VLA-ED (mg/m <sup>3</sup> )	441 mg/m <sup>3</sup>
VLA-ED (ppm)	100 ppm
VLA-EC (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
VLA-EC (ppm)	200 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).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Etylbensen
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup>
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>

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<b>ethylbenzene (100-41-4)</b>	
kortidsvärde (KTV) (ppm)	200 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> )	441 mg/m <sup>3</sup>
WEL TWA (ppm)	100 ppm
WEL STEL (mg/m <sup>3</sup> )	552 mg/m <sup>3</sup>
WEL STEL [ppm]	125 ppm
Remark (WEL)	(Sk)
<b>Norway - Occupational Exposure Limits</b>	
Local name	Etylbenzen
Grenseverdier (AN) (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
Grenseverdier (AN) (ppm)	5 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> ]	435 mg/m <sup>3</sup>
MAK (ppm)	100 ppm 1.5 ppm Etilbenzene (sangue; fine dell'esposizione / del turno) 2 ppm Acido mandelico + acido fenilglossilico (urina; fine dell'esposizione / del turno)
KZGW (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
KZGW (ppm)	100 ppm
<b>Propylene oxide (75-56-9)</b>	
<b>EU - Occupational Exposure Limits</b>	
Local name	1,2-Epoxypropane
IOELV TWA (mg/m <sup>3</sup> )	2.4 mg/m <sup>3</sup> (BOEL)
IOELV TWA (ppm)	1 ppm (BOEL)
Notes	SCOEL Recommendations (2010)
Regulatory reference	DIRECTIVE (EU) 2019/130 (amending Directive 2004/37/EC)
<b>EU - Biological limit values</b>	
Local name	Propylene oxide
European BLV	1.3 Parameter: N-(3-hydroxypropyl) valine - Medium: blood
Regulatory reference	SCOEL List of recommended health-based BLVs and BGVs
<b>Austria - Occupational Exposure Limits</b>	
MAK [mg/m <sup>3</sup> ]	6 mg/m <sup>3</sup> (H,III A2)
MAK Daily average value (ppm)	2.5 ppm (H,III A2)
MAK Short time value [mg/m <sup>3</sup> ]	24 mg/m <sup>3</sup> max. 4x15 min./Schicht, (H,III A2)
MAK Short time value [ppm]	10 ppm max. 4x15 min./Schicht, (H,III A2)

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<b>Propylene oxide (75-56-9)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
Limit value [mg/m <sup>3</sup> ]	5 mg/m <sup>3</sup>
Limit value [ppm]	2 ppm
Remark (BE)	c
<b>Denmark - Occupational Exposure Limits</b>	
Local name	1,2-Propylenoxid (1,2-Epoxypropan; Methyloxiran)
Grænsevædi (8 timer) (mg/m <sup>3</sup> )	2.4 mg/m <sup>3</sup>
Grænsevædi (8 timer) (ppm)	1 ppm
Grænsevædi (STEL) (mg/m <sup>3</sup> )	24 mg/m <sup>3</sup>
Grænsevædi (STEL) (ppm)	10 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden); 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	Propyleenioksidi
HTP-arvo (8h) (mg/m <sup>3</sup> )	2.4 mg/m <sup>3</sup>
HTP-arvo (8h) (ppm)	1 ppm
Huomautus (FI)	iho
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden tutkimuskeskus)
<b>France - Occupational Exposure Limits</b>	
Local name	Oxyde de propylène (1,2-Epoxypropane)
VME [mg/m <sup>3</sup> ]	50 mg/m <sup>3</sup>
VME [ppm]	20 ppm
Note (FR)	Valeurs recommandées/admises; substance classée cancérogène de catégorie 1B et mutagène de catégorie 1B
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
TRGS 900 Local name	Methyloxiran (Propylenoxid)
Occupational exposure limit value (mg/m <sup>3</sup> )	2.4 mg/m <sup>3</sup>
Occupational exposure limit value (ppm)	1 ppm
Peak exposure limitation factor	4(l)
TRGS 900 Remark	AGS;EU;Sh;X;Y;28
TRGS 900 Regulatory reference	TRGS900
<b>Hungary - Occupational Exposure Limits</b>	
Local name	PROPILÉN-OXID (1,2-epoxipropán)
AK-érték	2.4 mg/m <sup>3</sup>
MK-érték	5 mg/m <sup>3</sup>
Megjegyzések (HU)	k(1B) (rákkeltő), b (Bőrön át is felszívódik), i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármat); EU6 (2019/130 EU irányelvben közölt érték); T (Azok az anyagok, amelyek egészségkárosító hatása TARTÓS expozíciót követően jelentkezik)

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<b>Propylene oxide (75-56-9)</b>	
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> )	12 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	5 ppm
Notes (IE)	C2, Mut2
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Propilēnoksīds (metiloksirāns, 1,2-epoksiropāns)
OEL TWA (mg/m <sup>3</sup> )	2.4 mg/m <sup>3</sup>
OEL TWA (ppm)	1 ppm
Remark (LV)	Carc. 1B; Muta. 1B
Regulatory reference	Ministru kabineta 2008. gada 29. septembra noteikumi Nr. 803 (Grozījumi Ministru kabineta 2020. gada 7. janvārī noteikumiem Nr. 10).
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
IPRV (ppm)	2 ppm
TPRV (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup>
TPRV (ppm)	10 ppm
Remark (LT)	K M
<b>Netherlands - Occupational Exposure Limits</b>	
Local name	1,2-Epoxypropaan
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	2.4 mg/m <sup>3</sup>
Remark (MAC)	Kankerverwekkende stof
Regulatory reference	Arbeidsomstandighedenregeling 2020
<b>Poland - Occupational Exposure Limits</b>	
Local name	1,2-Epoksypropan (tlenek propylenu)
NDS (mg/m <sup>3</sup> )	2.4 mg/m <sup>3</sup>
Regulatory reference	Dz. U. 2020 poz. 61
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Óxido de propileno
OEL TWA (ppm)	2 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	propylénoxid (1,2-epoxypropán) (metyloxirán)
NPHV (priemerná) (mg/m <sup>3</sup> )	2.4 mg/m <sup>3</sup>
NPHV (priemerná) (ppm)	1 ppm
Upozornenie (SK)	Kategória karcinogénov 1B – Pravdepodobný karcinogén; Kategória mutagénov 1B – Mutagén cicavčích zárodočných buniek
Regulatory reference	Nariadenie vlády č. 110/2019 Z. z.
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	1,2-epoksipropan

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<b>Propylene oxide (75-56-9)</b>	
OEL TWA (mg/m <sup>3</sup> )	2.4 mg/m <sup>3</sup>
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m <sup>3</sup> )	24 mg/m <sup>3</sup>
OEL STEL (ppm)	10 ppm
Remark (SI)	EU, EKA (Zveza med koncentracijo rakotvornih snovi v zraku na delovnem mestu in količino snovi in/ali njenih metabolitov v organizmu)
Regulatory reference	Uradni list RS, št. 79/2019 z dne 24.12.2019
<b>Slovenia - Biological limit values</b>	
Local name	1,2-epoksiopropan
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
<b>Spain - Occupational Exposure Limits</b>	
Local name	Óxido de propileno
VLA-ED (mg/m <sup>3</sup> )	4.8 mg/m <sup>3</sup>
VLA-ED (ppm)	2 ppm
Notes	C1B (Supuesto carcinógeno para el hombre), M1B (Sustancias de las que se considera que inducen mutaciones hereditarias en las células germinales humanas), 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>Sweden - Occupational Exposure Limits</b>	
Local name	Propylenoxid
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	2.4 mg/m <sup>3</sup>
nivågränsvärde (NVG) (ppm)	1 ppm
kortidsvärde (KTV) (mg/m <sup>3</sup> )	12.5 mg/m <sup>3</sup>
kortidsvärde (KTV) (ppm)	5 ppm
Anmärkning (SE)	C (Ämnet är cancerframkallande. Risk för cancer finns även vid annan exponering än via inandning. För vissa cancerframkallande ämnen som inte har gränsvärden gäller förbud eller tillståndskrav enligt föreskrifterna om kemiska arbetsmiljörisiker); 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 arbetsmiljörisiker. 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> )	12 mg/m <sup>3</sup>
WEL TWA (ppm)	5 ppm
Remark (WEL)	(Carc)



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<b>Propylene oxide (75-56-9)</b>	
<b>Norway - Occupational Exposure Limits</b>	
Local name	1,2-propylenoksid (1,2-epoksypropan)
Grenseverdier (AN) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Grenseverdier (AN) (ppm)	1 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; H: Kjemikalier som kan tas opp gjennom huden; K: Kjemikalier som skal betraktes som kreftfremkallende; G: EU har fastsatt en bindende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
<b>Switzerland - Occupational Exposure Limits</b>	
VME [mg/m <sup>3</sup> ]	6 mg/m <sup>3</sup>
MAK (ppm)	2.5 ppm
<b>Benzene (71-43-2)</b>	
<b>EU - Occupational Exposure Limits</b>	
Local name	Benzene
IOELV TWA (mg/m <sup>3</sup> )	3.25 mg/m <sup>3</sup> (BOEL)
IOELV TWA (ppm)	1 ppm (BOEL)
Notes	Skin (Substantial contribution to the total body burden via dermal exposure possible)
Regulatory reference	DIRECTIVE (EU) 2019/130 (amending Directive 2004/37/EC)
<b>EU - Biological limit values</b>	
Local name	Benzene
European BLV	28 µg/l Parameter: benzene - Medium: blood - Sampling time: immediately end of shift 46 µg/g creatinine Parameter: phenylmercapturic - Medium: urine - Sampling time: end of exposure/shift
Regulatory reference	SCOEL List of recommended health-based BLVs and BGVs
<b>Austria - Occupational Exposure Limits</b>	
MAK [mg/m <sup>3</sup> ]	3.2 mg/m <sup>3</sup> (H, III A1)
MAK Daily average value (ppm)	1 ppm (H, III A1)
MAK Short time value [mg/m <sup>3</sup> ]	12.8 mg/m <sup>3</sup> (H, III A1) max. 4x15 min./Schicht
MAK Short time value [ppm]	4 ppm (H, III A1) max. 4x15 min./Schicht
<b>Belgium - Occupational Exposure Limits</b>	
Limit value [mg/m <sup>3</sup> ]	3.25 mg/m <sup>3</sup>
Limit value [ppm]	1 ppm
Remark (BE)	C, D
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Benzen
Expoziční limity (PEL) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Expoziční limity (PEL) (ppm)	0.9 ppm
Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Expoziční limity (NPK-P) (ppm)	3.1 ppm

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<b>Benzene (71-43-2)</b>	
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, K - karcinogen kategorie 1A a 1B (s větou H350, H350i), M - mutagen v zárodečných buňkách kategorie 1A a 1B (s větou H340), P - u látky nelze vyloučit závažné pozdní účinky (s větou H372, H373).
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
<b>Czech Republic - Biological limit values</b>	
Local name	Benzen
Czech Republic - BLV	0.05 mg/g creatinine Ukazatel: S-Fenylmerkapturová kyselina - Biološki uzorak: moči - Doba odběru: konec směny 0.024 μmol/mmol Creatinine Ukazatel: S-Fenylmerkapturová kyselina - Biološki uzorak: moči - Doba odběru: konec směny 1.5 mg/g creatinine Ukazatel: t,t-Mukonová kyselina - Biološki uzorak: moči - Doba odběru: konec směny 1.2 μmol/mmol Creatinine Ukazatel: t,t-Mukonová kyselina - Biološki uzorak: moči - Doba odběru: konec směny
Regulatory reference	Vyhláška č. 107/2013 Sb. (kterou se mění vyhláška č. 432/2003 Sb.)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Benzen
Grænsevædi (8 timer) (mg/m <sup>3</sup> )	1.6 mg/m <sup>3</sup>
Grænsevædi (8 timer) (ppm)	0.5 ppm
Grænsevædi (STEL) (mg/m <sup>3</sup> )	3.2 mg/m <sup>3</sup>
Grænsevædi (STEL) (ppm)	1 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden); 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	Bentseeni
HTP-arvo (8h) (mg/m <sup>3</sup> )	3.25 mg/m <sup>3</sup>
HTP-arvo (8h) (ppm)	1 ppm
Huomautus (FI)	iho. Työssä tapahtuvan altistumisen sitovat raja-arvot.
Regulatory reference	Valtioneuvoston asetus työhön liittyvän syöpävaaran torjunnasta (1267/2019)
<b>France - Occupational Exposure Limits</b>	
Local name	Benzène
VME [mg/m <sup>3</sup> ]	3.25 mg/m <sup>3</sup>
VME [ppm]	1 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>Hungary - Occupational Exposure Limits</b>	
Local name	BENZOL
AK-érték	3.25 mg/m <sup>3</sup>
Megjegyzések (HU)	k(1A) (rákkeltő), b (Bőrön át is felszívódik), i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármat), BEM (biológiai expozíciós mutató); EU6 (2019/130 EU irányelvben közölt érték); T (Azok az anyagok, amelyek egészségkárosító hatása TARTÓS expozíciót követően jelentkezik)

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<b>Benzene (71-43-2)</b>	
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
<b>Hungary - Biological limit values</b>	
Local name	Benzol
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> )	3 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	1 ppm
Notes (IE)	Sk, C1
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Benzols
OEL TWA (mg/m <sup>3</sup> )	3.25 mg/m <sup>3</sup>
OEL TWA (ppm)	1 ppm
Remark (LV)	Āda. Carc. 1A; Muta. 1B
Regulatory reference	Ministru kabineta 2008. gada 29. septembra noteikumi Nr. 803 (Grozījumi Ministru kabineta 2020. gada 7. janvārī noteikumiem Nr. 10).
<b>Latvia - Biological limit values</b>	
Local name	Benzolam
Latvia - BLV	25 µg/g creatinine Urīnā maiņas beigās nosaka fenolu
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> )	3.25 mg/m <sup>3</sup>
IPRV (ppm)	1 ppm
TPRV (mg/m <sup>3</sup> )	19 mg/m <sup>3</sup>
TPRV (ppm)	6 ppm
Remark (LT)	K O; IPRV 3,25mg/m3 (1 ppm) galios nuo 2003 06 27 (pagal direktyvos 97/42 EC 2 str. 1 dalyje nurodytą datą).
<b>Netherlands - Occupational Exposure Limits</b>	
Local name	Benzeen
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0.7 mg/m <sup>3</sup>
Remark (MAC)	Kankerverwekkende stof. 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	Benzen
NDS (mg/m <sup>3</sup> )	1.6 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

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<b>Benzene (71-43-2)</b>	
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Benzeno
OEL TWA (ppm)	0.5 ppm
OEL STEL (ppm)	2.5 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Portugal - Biological limit values</b>	
Local name	Benzeno
Portugal (BEI)	25 µg/g creatinine Parâmetro: Ácido s-fenilmercaptúrico - Meio: urina - Momento da amostragem: Fim do turno - Notação: Vb (Valor basal) 500 µg/g creatinine Parâmetro: Ácido t,t-mucónico - Meio: urina - Momento da amostragem: Fim do turno - Notação: Vb (Valor basal)
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	benzén
NPHV (priemerná) (mg/m <sup>3</sup> )	3.25 mg/m <sup>3</sup>
NPHV (priemerná) (ppm)	1 ppm
Upozornenie (SK)	Kategória karcinogénov 1A – Dokázaný karcinogén pre ľudí; Kategória mutagénov 1B – Mutagén cicavčích zárodočných buniek; K – prienik cez kožu: Niektoré látky môžu prenikat' ľahko cez kožu a spôsobiť smrteľné otravy často bez varovných príznakov (napríklad anilín, nitrobenzén, nitroglykol, fenoly a podobne).
Regulatory reference	Nariadenie vlády č. 110/2019 Z. z.
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	benzen
OEL TWA (mg/m <sup>3</sup> )	3.25 mg/m <sup>3</sup>
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m <sup>3</sup> )	13 mg/m <sup>3</sup>
OEL STEL (ppm)	4 ppm
<b>Spain - Occupational Exposure Limits</b>	
Local name	Benceno
VLA-ED (mg/m <sup>3</sup> )	3.25 mg/m <sup>3</sup>
VLA-ED (ppm)	1 ppm
Notes	C1A (Carcinógeno para el hombre), M1B (Sustancias de las que se considera que inducen mutaciones hereditarias en las células germinales humanas), 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), v (Real Decreto 1124/2000, de 16 de junio (BOE nº 145 de 17 de junio de 2000), por el que se modifica el Real Decreto 665/1997, de 12 de mayo, sobre la protección de los trabajadores contra los riesgos relacionados con la exposición a agentes cancerígenos durante el trabajo), 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).

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<b>Benzene (71-43-2)</b>	
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
<b>Spain - Biological limit values</b>	
Local name	Benceno
Spain - BLV	0.045 mg/g creatinine Parámetro: Ácido S-Fenilmercaptúrico - Medio: Orina - Momento de muestreo: Final de la jornada laboral 2 mg/l Parámetro: Ácido t,t-Mucónico - 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	Bensen
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	1.5 mg/m <sup>3</sup>
nivågränsvärde (NVG) (ppm)	0.5 ppm
kortidsvärde (KTV) (mg/m <sup>3</sup> )	9 mg/m <sup>3</sup>
kortidsvärde (KTV) (ppm)	3 ppm
Anmärkning (SE)	C (Ämnet är cancerframkallande. Risk för cancer finns även vid annan exponering än via inandning. För vissa cancerframkallande ämnen som inte har gränsvärden gäller förbud eller tillståndskrav enligt föreskrifterna om kemiska arbetsmiljörisiker); 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> )	3.25 mg/m <sup>3</sup>
WEL TWA (ppm)	1 ppm
Remark (WEL)	Carc, Sk
<b>Norway - Occupational Exposure Limits</b>	
Local name	Benzen
Grenseverdier (AN) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Grenseverdier (AN) (ppm)	1 ppm
Merknader (NO)	G: EU har fastsatt en bindende grenseverdi for stoffet; H: Kjemikalier som kan tas opp gjennom huden; K: Kjemikalier som skal betraktes som kreftfremkallende.
Regulatory reference	FOR-2020-04-06-695
<b>Switzerland - Occupational Exposure Limits</b>	
VME [mg/m <sup>3</sup> ]	1.6 mg/m <sup>3</sup>
MAK (ppm)	0.5 ppm 25 ppm S-Phenylmerkaptursäure, Urin, b, 500 ppm t,t-Mukonsäure, Urin, b

<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

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<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	Toluene
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)

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<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>Ethylene oxide (75-21-8)</b>	
<b>EU - Occupational Exposure Limits</b>	
Local name	Ethylene oxide
IOELV TWA (mg/m <sup>3</sup> )	1.8 mg/m <sup>3</sup> (BOEL)
IOELV TWA (ppm)	1 ppm (BOEL)
Notes	Skin (Substantial contribution to the total body burden via dermal exposure possible)
Regulatory reference	DIRECTIVE (EU) 2019/130 (amending Directive 2004/37/EC)
<b>Austria - Occupational Exposure Limits</b>	
MAK [mg/m <sup>3</sup> ]	2 mg/m <sup>3</sup> (H, II A2)
MAK Daily average value (ppm)	1 ppm (H, II A2)
MAK Short time value [mg/m <sup>3</sup> ]	8 mg/m <sup>3</sup> max. 4x15 min./Schicht, (H, II A2)
MAK Short time value [ppm]	4 ppm max. 4x15 min./Schicht, (H, II A2)
<b>Belgium - Occupational Exposure Limits</b>	
Limit value [mg/m <sup>3</sup> ]	1.8 mg/m <sup>3</sup>
Limit value [ppm]	1 ppm
Remark (BE)	c
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Ethylenoxid (Oxiran)
Expoziční limity (PEL) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>

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<b>Ethylene oxide (75-21-8)</b>	
Expoziční limity (PEL) (ppm)	0.55 ppm
Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Expoziční limity (NPK-P) (ppm)	1.64 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, K - karcinogen kategorie 1A a 1B (s větou H350, H350i), M - mutagen v zárodečných buňkách kategorie 1A a 1B (s větou H340).
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
<b>Czech Republic - Biological limit values</b>	
Local name	Ethylenoxid (Oxiran)
Czech Republic - BLV	0.3 µg/g Ukazatel: N-(2-Hydroxyethyl)valin v globinu - Biološki uzorak: krvi - Doba odběru: nerozhoduje 1.9 Ukazatel: N-(2-Hydroxyethyl)valin v globinu - Biološki uzorak: krvi - Doba odběru: nerozhoduje
Regulatory reference	Vyhláška č. 107/2013 Sb. (kterou se mění vyhláška č. 432/2003 Sb.)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Ethylenoxid (1,2-Epoxyethan; Oxiran; T-gas)
Grænsevædi (8 timer) (mg/m <sup>3</sup> )	1.8 mg/m <sup>3</sup>
Grænsevædi (8 timer) (ppm)	1 ppm
Grænsevædi (STEL) (mg/m <sup>3</sup> )	3.6 mg/m <sup>3</sup>
Grænsevædi (STEL) (ppm)	2 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden); 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	Etylenioksidi
HTP-arvo (8h) (mg/m <sup>3</sup> )	1.8 mg/m <sup>3</sup>
HTP-arvo (8h) (ppm)	1 ppm
Huomautus (FI)	iho. Työssä tapahtuvan altistumisen sitovat raja-arvot.
Regulatory reference	Valtioneuvoston asetus työhön liittyvän syöpävaaran torjunnasta (1267/2019)
<b>France - Occupational Exposure Limits</b>	
Local name	Oxyde d'éthylène
VME [ppm]	1 ppm
VLE [ppm]	5 ppm
Note (FR)	Valeurs recommandées/admises; substance classée cancérogène de catégorie 1B et mutagène de catégorie 1B
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
<b>Hungary - Occupational Exposure Limits</b>	
Local name	ETILÉN-OXID
AK-érték	1.8 mg/m <sup>3</sup>
MK-érték	1.8 mg/m <sup>3</sup>

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<b>Ethylene oxide (75-21-8)</b>	
Megjegyzések (HU)	k(1B) (rákkeltő), 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), b (Bőrön át is felszívódik); EU6 (2019/130 EU irányelvben közölt érték); T (Azok az anyagok, amelyek egészségkárosító hatása TARTÓS expozíciót követően 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> )	10 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	5 ppm
Notes (IE)	C2, Mut2
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Etilēnoksīds (oksirāns)
OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
OEL TWA (ppm)	0.55 ppm
Remark (LV)	Āda. Carc. 1B; Muta. 1B
Regulatory reference	Ministru kabineta 2008. gada 29. septembra noteikumi Nr. 803 (Grozījumi Ministru kabineta 2020. gada 7. janvārī noteikumiem Nr. 10).
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
IPRV (ppm)	1 ppm
TPRV (mg/m <sup>3</sup> )	9 mg/m <sup>3</sup>
TPRV (ppm)	5 ppm
Remark (LT)	M Ū K O
<b>Netherlands - Occupational Exposure Limits</b>	
Local name	Ethyleenoxide
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0.84 mg/m <sup>3</sup>
Remark (MAC)	Kankerverwekkende stof. 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	Epoksyetan
NDS (mg/m <sup>3</sup> )	1 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	Óxido de etileno
OEL TWA (ppm)	1 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014

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<b>Ethylene oxide (75-21-8)</b>	
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	etylénoxid (oxirán)
NPHV (priemerná) (mg/m <sup>3</sup> )	1.8 mg/m <sup>3</sup>
NPHV (priemerná) (ppm)	1 ppm
Upozornenie (SK)	Kategória karcinogénov 1B – Pravdepodobný karcinogén; Kategória mutagénov 1B – Mutagén cicavčích zárodočných buniek; K – prienik cez kožu: Niektoré látky môžu prenikat' ľahko cez kožu a spôsobovat' smrteľné otravy často bez varovných príznakov (napríklad anilín, nitrobenzén, nitroglykol, fenoly a podobne).
Regulatory reference	Nariadenie vlády č. 110/2019 Z. z.
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	etilen oksid (oksiran)
OEL TWA (mg/m <sup>3</sup> )	1.8 mg/m <sup>3</sup>
OEL TWA (ppm)	1 ppm
OEL STEL (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
OEL STEL (ppm)	4 ppm
Remark (SI)	EU, K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), BAT (Biološka mejna vrednost), EKA (Zveza med koncentracijo rakotvornih snovi v zraku na delovnem mestu in količino snovi in/ali njenih metabolitov v organizmu)
Regulatory reference	Uradni list RS, št. 79/2019 z dne 24.12.2019
<b>Slovenia - Biological limit values</b>	
Local name	etilen oksid
Regulatory reference	Uradni list RS, št. 79/2019 z dne 24.12.2019
<b>Spain - Occupational Exposure Limits</b>	
Local name	Óxido de etileno
VLA-ED (mg/m <sup>3</sup> )	1.8 mg/m <sup>3</sup>
VLA-ED (ppm)	1 ppm
Notes	C1B (Supuesto carcinógeno para el hombre), M1B (Sustancias de las que se considera que inducen mutaciones hereditarias en las células germinales humanas), 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>Sweden - Occupational Exposure Limits</b>	
Local name	Etylenoxid
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	1.8 mg/m <sup>3</sup>
nivågränsvärde (NVG) (ppm)	1 ppm
kortidsvärde (KTV) (mg/m <sup>3</sup> )	9 mg/m <sup>3</sup>
kortidsvärde (KTV) (ppm)	5 ppm

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<b>Ethylene oxide (75-21-8)</b>	
Anmärkning (SE)	C (Ämnet är cancerframkallande. Risk för cancer finns även vid annan exponering än via inandning. För vissa cancerframkallande ämnen som inte har gränsvärden gäller förbud eller tillståndskrav enligt föreskrifterna om kemiska arbetsmiljörisiker); 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> )	9.2 mg/m <sup>3</sup>
WEL TWA (ppm)	5 ppm
Remark (WEL)	(Carc)
<b>Norway - Occupational Exposure Limits</b>	
Local name	Etylenoxid
Grenseverdier (AN) (mg/m <sup>3</sup> )	1.8 mg/m <sup>3</sup>
Grenseverdier (AN) (ppm)	1 ppm
Merknader (NO)	H: Kjemikalier som kan tas opp gjennom huden; K: Kjemikalier som skal betraktes som kreftfremkallende; G: EU har fastsatt en bindende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
<b>Switzerland - Occupational Exposure Limits</b>	
VME [mg/m <sup>3</sup> ]	2 mg/m <sup>3</sup>
MAK (ppm)	1 ppm
<b>Methanol (67-56-1)</b>	
<b>EU - Occupational Exposure Limits</b>	
Local name	Methanol
IOELV TWA (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
IOELV TWA (ppm)	200 ppm
Notes	Skin
<b>Austria - Occupational Exposure Limits</b>	
MAK [mg/m <sup>3</sup> ]	260 mg/m <sup>3</sup> (H)
MAK Daily average value (ppm)	200 ppm (H)
MAK Short time value [mg/m <sup>3</sup> ]	1040 mg/m <sup>3</sup> max. 4x15 min./Schicht, (H)
MAK Short time value [ppm]	800 ppm max. 4x15 min./Schicht, (H)
<b>Belgium - Occupational Exposure Limits</b>	
Limit value [mg/m <sup>3</sup> ]	266 mg/m <sup>3</sup>
Limit value [ppm]	200 ppm
Short time value [mg/m <sup>3</sup> ]	333 mg/m <sup>3</sup>
Short time value [ppm]	250 ppm
Remark (BE)	D
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Methanol
Expoziční limity (PEL) (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
Expoziční limity (PEL) (ppm)	188.5 ppm

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<b>Methanol (67-56-1)</b>	
Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Expoziční limity (NPK-P) (ppm)	754 ppm
Remark (CZ)	D
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Methanol (Methylalkohol)
Grænsevædi (8 timer) (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
Grænsevædi (8 timer) (ppm)	200 ppm
Grænsevædi (STEL) (mg/m <sup>3</sup> )	520 mg/m <sup>3</sup>
Grænsevædi (STEL) (ppm)	400 ppm
Anmærkninger (DK)	H
<b>Finland - Occupational Exposure Limits</b>	
Local name	Metanoli
HTP-arvo (8h) (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
HTP-arvo (8h) (ppm)	200 ppm
HTP-arvo (15 min)	330 mg/m <sup>3</sup>
HTP-arvo (15 min) (ppm)	250 ppm
Huomautus (FI)	iho
<b>France - Occupational Exposure Limits</b>	
Local name	Alcool méthylique (méthanol)
VME [mg/m <sup>3</sup> ]	260 mg/m <sup>3</sup>
VME [ppm]	200 ppm
VLE [mg/m <sup>3</sup> ]	1300 mg/m <sup>3</sup>
VLE [ppm]	1000 ppm
Note (FR)	Peau
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
TRGS 900 Local name	Methanol
Occupational exposure limit value (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
Occupational exposure limit value (ppm)	200 ppm
Limitation of exposure peaks (mg/m <sup>3</sup> )	1080 mg/m <sup>3</sup>
Limitation of exposure peaks (ppm)	800 ppm
TRGS 900 Remark	H
<b>Germany - Biological limit values (TRGS 903)</b>	
TRGS 903 Biological limit value	30 mg/l
TRGS 903 Remark	(Urin; bei Langzeitexposition/Expositionsende bzw. Schichtende)
<b>Hungary - Occupational Exposure Limits</b>	
Local name	METIL-ALKOHOL
AK-érték	260 mg/m <sup>3</sup>
Megjegyzések (HU)	b, i; II.1.
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>



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<b>Methanol (67-56-1)</b>	
OEL (8 hours ref) (ppm)	200 ppm
Notes (IE)	SK
<b>Italy - Occupational Exposure Limits</b>	
Local name	Metanolo
OEL TWA (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
OEL TWA (ppm)	200 ppm
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Metanols (metilspirts, karbinols)
OEL TWA (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
OEL TWA (ppm)	200 ppm
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
IPRV (ppm)	200 ppm
Remark (LT)	O
<b>Netherlands - Occupational Exposure Limits</b>	
Local name	Methanol
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	133 mg/m <sup>3</sup>
Remark (MAC)	H
<b>Poland - Occupational Exposure Limits</b>	
Local name	Metanol (metylowy alkohol)
NDS (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
NDSCh (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Metanol (Álcool metílico)
OEL TWA (ppm)	200 ppm
OEL STEL (ppm)	250 ppm
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Metylalkohol (metanol)
NPHV (priemerná) (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup> poznámka K
NPHV (priemerná) (ppm)	200 ppm poznámka K 30 ppm (Metanol)
Upozornenie (SK)	K - znamená, že faktor môže byť ľahko absorbovaný kožou
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	metanol (metilalkohol)
OEL TWA (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
OEL TWA (ppm)	200 ppm
<b>Spain - Occupational Exposure Limits</b>	
Local name	Metanol (Alcohol metílico)
VLA-ED (mg/m <sup>3</sup> )	266 mg/m <sup>3</sup> vía dérmica, VLB, VLI
VLA-ED (ppm)	200 ppm vía dérmica, VLB, VLI 15 ppm F, I "(Alcohol metílico en orina; Final de la jornada laboral 2)"

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<b>Methanol (67-56-1)</b>	
VLA-EC (mg/m <sup>3</sup> )	333 mg/m <sup>3</sup> vía dérmica, VLB, VLI
VLA-EC (ppm)	250 ppm vía dérmica, VLB, VLI
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. Para más información véase el Apartado 5 de este documento), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país).
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Metanol
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
nivågränsvärde (NVG) (ppm)	200 ppm
kortidsvärde (KTV) (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
kortidsvärde (KTV) (ppm)	250 ppm
Anmärkning (SE)	H
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	266 mg/m <sup>3</sup>
WEL TWA (ppm)	200 ppm
WEL STEL (mg/m <sup>3</sup> )	333 mg/m <sup>3</sup>
WEL STEL [ppm]	250 ppm
Remark (WEL)	(Sk)
<b>Norway - Occupational Exposure Limits</b>	
Local name	Metanol
Grenseverdier (AN) (mg/m <sup>3</sup> )	130 mg/m <sup>3</sup>
Grenseverdier (AN) (ppm)	100 ppm
Merknader (NO)	H
<b>Switzerland - Occupational Exposure Limits</b>	
VME [mg/m <sup>3</sup> ]	260 mg/m <sup>3</sup>
MAK (ppm)	200 ppm 30 ppm (urina; in caso di esposizione per molto tempo/fine dell'esposizione / del turno)
KZGW (mg/m <sup>3</sup> )	1040 mg/m <sup>3</sup> max. 4x15 min./turno
KZGW (ppm)	800 ppm max. 4x15 min./turno

## 8.2. Exposure controls

### Appropriate engineering controls:

Avoid splashing. Ensure good ventilation of the work station.

### Personal protective equipment:

Avoid all unnecessary exposure.

### Hand protection:

Use rubber gloves. nitrile rubber gloves. neoprene gloves. EN 374

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### Eye protection:

Chemical goggles or safety glasses. EN 166

### Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Disposable half mask. Use an approved respirator equipped with oil/mist cartridges. Appropriate self-contained breathing apparatus may be required. EN 136/140

### Environmental exposure controls:

Prevent leakage or spillage. Prevent contaminated water run-off.

### Other information:

Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: amber.
Odour	: petroleum.
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	: $\geq 71.1$ °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Combustible liquid
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.837
Solubility	: insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: 8.52 mm <sup>2</sup> /s @ 40 °C
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

No dangerous reactions known.

### 10.2. Chemical stability

Combustible liquid. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks.

### 10.5. Incompatible materials

Oxidizer.

### 10.6. Hazardous decomposition products

May release flammable gases. Incomplete combustion will generate : Carbon oxides (CO, CO<sub>2</sub>). Aldehydes. hydrogen sulphide. Mercaptans.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### Distillates (petroleum), hydrotreated light (64742-47-8)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 5.28 mg/l/4h

#### Naphthalene (91-20-3)

LD50 oral rat	490 mg/kg
LD50 dermal rabbit	20 g/kg
LC50 Inhalation - Rat	> 340 mg/m <sup>3</sup> 1 hour

#### ethylbenzene (100-41-4)

LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	17.8 ml/kg
LC50 Inhalation - Rat [ppm]	< 1500 ppm

#### Benzene (71-43-2)

LD50 oral rat	5970 mg/kg OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 9.4 mg/kg OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	43.7 mg/l/4h OECD Guideline 403 (Acute Inhalation Toxicity)

#### Toluene (108-88-3)

LD50 oral rat	5580 mg/kg EU Method B.
LC50 Inhalation - Rat	> 20 mg/l/4h OECD Guideline 403

#### Ethylene oxide (75-21-8)

LD50 oral rat	330 mg/kg bodyweight
LC50 Inhalation - Rat [ppm]	1741 ppm/4h

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

#### Naphthalene (91-20-3)

IARC group	2B - Possibly carcinogenic to humans
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#### ethylbenzene (100-41-4)

IARC group	2B - Possibly carcinogenic to humans
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### Propylene oxide (75-56-9)

IARC group 2B - Possibly carcinogenic to humans

### Benzene (71-43-2)

IARC group 1 - Carcinogenic to humans

### Toluene (108-88-3)

IARC group 3 - Not classifiable

### Ethylene oxide (75-21-8)

IARC group 1 - Carcinogenic to humans

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

### Benzene (71-43-2)

LOAEL (oral, rat, 90 days) 25 mg/kg bodyweight/day OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

NOAEL (oral, rat, 90 days) 100 mg/kg bodyweight/day OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

NOAEC (inhalation, rat, gas, 90 days) 30 ppmv/6h/day OECD Guideline 412 / 413

### 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

### Ethylene oxide (75-21-8)

Affected organs nervous system

Aspiration hazard : May be fatal if swallowed and enters airways.

### Complete Engine Treatment

Viscosity, kinematic 8.52 mm<sup>2</sup>/s @ 40 °C

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : No ecotoxicological data about this product are known.

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

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

### Naphthalene (91-20-3)

LC50 fish 1 0.91 (0.91 – 2.82) mg/l *Oncorhynchus mykiss*

LC50 fish 2 1 (1 – 6.5) mg/l *Pimpephales promelas*

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EC50 crustacea	1.96 mg/l
EC50 other aquatic organisms 1	33 mg/l
LOEC (acute)	3.2 mg/l
NOEC (acute)	1.8 mg/l

### ethylbenzene (100-41-4)

LC50 fish 1	5.1 mg/l
EC50 other aquatic organisms 1	7.7 mg/l
NOEC (acute)	3.3 mg/l

### Benzene (71-43-2)

LC50 fish 1	5.3 mg/l OECD Guideline 203 (Fish, Acute Toxicity Test)
EC50 crustacea	10 mg/l OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
ErC50 (algae)	100 mg/l OECD Guideline 201 (Alga, Growth Inhibition Test)
LOEC (chronic)	1.6 mg/l 32 d
NOEC chronic crustacea	3 mg/l

### Toluene (108-88-3)

LC50 fish 1	5.5 mg/l
EC50 Daphnia 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

## 12.2. Persistence and degradability

### Complete Engine Treatment

Persistence and degradability	Not established.
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### ethylbenzene (100-41-4)

Persistence and degradability	Not established.
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### Benzene (71-43-2)

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

Persistence and degradability	Readily biodegradable.
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### Ethylene oxide (75-21-8)

Persistence and degradability	Readily biodegradable.
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## 12.3. Bioaccumulative potential

### Complete Engine Treatment

Bioaccumulative potential	Not established.
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### Distillates (petroleum), hydrotreated light (64742-47-8)

Log Kow	2.1 – 5
Bioaccumulative potential	Bioaccumulative potential.

### Naphthalene (91-20-3)

BCF fish 1	≥ 427 (427 – 1158)
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### ethylbenzene (100-41-4)

Bioaccumulative potential	Not established.
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### Benzene (71-43-2)

BCF fish 1	3.5 – 4.4
Bioconcentration factor (BCF REACH)	0
Log Pow	1.83

### Toluene (108-88-3)

Bioconcentration factor (BCF REACH)	90
Log Kow	2.73

### Ethylene oxide (75-21-8)

Log Pow	-0.3
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#### 12.4. Mobility in soil

##### Complete Engine Treatment

Ecology - soil	No additional information available.
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#### 12.5. Results of PBT and vPvB assessment

##### Complete Engine Treatment

PBT: not yet assessed

vPvB: not yet assessed

#### 12.6. Other adverse effects

Additional information : No additional information available

## 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.
Ecology - waste materials	: Hazardous waste due to toxicity.
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	: 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.

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No. (ADR)	: Not regulated.
UN-No. (IMDG)	: Not regulated.

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UN-No. (IATA) : Not regulated.  
UN-No. (ADN) : Not regulated.  
UN-No. (RID) : Not regulated.

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated.  
Proper Shipping Name (IMDG) : Not regulated.  
Proper Shipping Name (IATA) : Not regulated.  
Proper Shipping Name (ADN) : Not regulated.  
Proper Shipping Name (RID) : Not regulated.

### 14.3. Transport hazard class(es)

**ADR**  
Transport hazard class(es) (ADR) : Not regulated.

**IMDG**  
Transport hazard class(es) (IMDG) : Not regulated.

**IATA**  
Transport hazard class(es) (IATA) : Not regulated.

**ADN**  
Transport hazard class(es) (ADN) : Not regulated.

**RID**  
Transport hazard class(es) (RID) : Not regulated.

### 14.4. Packing group

Packing group (ADR) : Not regulated.  
Packing group (IMDG) : Not regulated.  
Packing group (IATA) : Not regulated.  
Packing group (ADN) : Not regulated.  
Packing group (RID) : Not regulated.

### 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

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

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
5.	Benzene	Benzene
28.	Propylene oxide ; Benzene ; Ethylene oxide	Substances which are classified as carcinogen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 1 or Appendix 2, respectively.
29.	Propylene oxide ; Benzene ; Ethylene oxide	Substances which are classified as germ cell mutagen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 3 or



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		Appendix 4, respectively.
3(a)	ethylbenzene ; Propylene oxide ; Benzene ; Toluene ; Methanol	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)	Complete Engine Treatment ; Distillates (petroleum), hydrotreated light ; ethylbenzene ; Propylene oxide ; Benzene ; Toluene ; Methanol	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)	Toluene	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.	ethylbenzene ; Propylene oxide ; Benzene ; Toluene ; Methanol	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
69.	Methanol	Methanol
72.	Benzene	The substances listed in column 1 of the Table in Appendix 12

Contains no substance on the REACH candidate list  $\geq 0,1\%$  / SCL

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

All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

#### Germany

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

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Immission Control Act - 12.BImSchV

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : Distillates (petroleum), hydrotreated light, Propylene oxide, Benzene, Ethylene oxide are listed

SZW-lijst van mutagene stoffen : Distillates (petroleum), hydrotreated light, Propylene oxide, Benzene, Ethylene oxide 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 : Ethylene oxide is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : Toluene, Methanol are listed

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

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

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

#### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Indication of changes:

Composition/information on ingredients. Supplier information.

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### Abbreviations and acronyms:

	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	STEL: Short Term Exposure Limits
	TSCA: Toxic Substances Control Act
	TWA: Time Weighted Average

Data sources : ACGIH (American Conference of Government Industrial Hygienists). Component Supplier SDSs. 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. Manufacturer Information. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard.

Other information : None.

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

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) 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 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1A	Carcinogenicity, Category 1A
Carc. 1B	Carcinogenicity, Category 1B
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Muta. 1B	Germ cell mutagenicity, Category 1B
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2

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STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
STOT SE 2	Specific target organ toxicity — Single 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
H220	Extremely flammable gas.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
H371	May cause damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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]:

Asp. Tox. 1	H304	Calculation method
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**SDS Prepared by:** The Redstone Group, dba SafeBridge Consultants, Inc.

110 Polaris Pkwy  
Suite 200  
Westerville, OH USA 43082  
P: +1 (614) 923-7472  
www.redstonegrp.com

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.