

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : LUB009717 - Rymax Silicone Spray  
Product code : LUB009717

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Industrial use, Professional use, Consumer use  
Function or use category : Lubricants and additives

##### 1.2.2. Uses advised against

No additional information available

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

Rymax B.V.  
Delweg 8  
NL 6902 PJ Zevenaar , Netherlands  
Netherlands  
T tel: +31 (0) 316 740 856  
[info@rymax-lubricants.com](mailto:info@rymax-lubricants.com), [www.rymax-lubricants.com](http://www.rymax-lubricants.com)

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Australia	NSW Poisons Information Centre The Children's Hospital at Westmead	Locked Bag 4001 NSW 2145	13 11 26	
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096	+972 4 854 1900	
Jordan	National Drug & Poison Information Center of Jordan		0798506755 00962-6-5353444	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090 Msida	112 +356 2545 6508	
Saudi Arabia	Poison Control Center-Riyadh	General Directorate of Health Affairs Medial Province	+966 112324180 +966 112324189	
United Arab Emirates	Health Authority – Abu Dhabi (HAAD) Poison & Drug Information Center (PDIC)	P.O. Box 5674	+ 800-424	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

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### SECTION 2: Hazards identification

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

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

Aerosol, Category 1	H222;H229
Skin corrosion/irritation, Category 2	H315
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

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

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

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause drowsiness or dizziness. Causes skin irritation. Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H222 - Extremely flammable aerosol.  
H229 - Pressurised container: May burst if heated.  
H315 - Causes skin irritation.  
H336 - May cause drowsiness or dizziness.  
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read carefully and follow all instructions.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 - Do not spray on an open flame or other ignition source.  
P251 - Do not pierce or burn, even after use.

#### 2.3. Other hazards

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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
n-Butane (<0,01% Butadiene -1,3)	CAS-No.: 106-97-8 EC-No.: 203-448-7 EC Index-No.: 601-004-01-8	$\leq 60$	Flam. Gas 1A, H220 Press. Gas (Liq.), H280

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propane	CAS-No.: 74-98-6 EC-No.: 200-827-9 EC Index-No.: 601-003-00-5	≤ 20	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	EC-No.: 927-510-4	≤ 20	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Hydrocarbons, C6, iso-alkanes, <5% n-hexane	-	≤ 10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
N-hexane	CAS-No.: 110-54-3 EC-No.: 203-777-6 EC Index-No.: 601-037-00-0	≤ 0,5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361f STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Cyclohexane	CAS-No.: 110-82-7 EC-No.: 203-806-2 EC Index-No.: 601-017-00-1	≤ 0,2	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
N-hexane	CAS-No.: 110-54-3 EC-No.: 203-777-6 EC Index-No.: 601-037-00-0	(5 ≤ C < 100) STOT RE 2; H373

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: None under normal conditions.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

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

Fire hazard : Extremely flammable aerosol.  
Explosion hazard : Pressurised container: May burst if heated.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.  
Absorb spillage to prevent material damage.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust, fume, gas, mist, spray, vapours. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.  
Methods for cleaning up : Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

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Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, spray, vapours. Avoid contact with skin and eyes. Wear personal protective equipment.
Handling temperature	: -30 – 150 °C (temperature resistant)
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures	: Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Packaging materials	: Store always product in container of same material as original container.
Storage class (LGK, TRGS 510)	: LGK 2B - Aerosol dispensers and lighters
Joint storage table	:

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for	: LGK 1, LGK 4.1A, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.2, LGK 7
Joint storage with restrictions permitted for	: LGK 2A, LGK 5.1C
Joint storage permitted for	: LGK 2B, LGK 3, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

n-Butane (<0,01% Butadiene -1,3) (106-97-8)	
<b>Austria - Occupational Exposure Limits</b>	
Local name	Butan (beide Isomeren): n-Butan (R 600)
MAK (OEL TWA)	1900 mg/m <sup>3</sup>
	800 ppm
MAK (OEL STEL)	3800 mg/m <sup>3</sup>
	1600 ppm
Regulatory reference	BGBI. II Nr. 156/2021
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Butane, tous isomères: n-butane # Butaan, alle isomeren: n-butaan
OEL STEL	2370 mg/m <sup>3</sup>
	980 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
<b>Bulgaria - Occupational Exposure Limits</b>	
Local name	н-Бутан

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<b>n-Butane (&lt;0,01% Butadiene -1,3) (106-97-8)</b>	
OEL TWA	1900 mg/m <sup>3</sup>
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.)
<b>Croatia - Occupational Exposure Limits</b>	
Local name	Butan
GVI (OEL TWA)	1450 mg/m <sup>3</sup> 600 ppm
KGVI (OEL STEL)	1810 mg/m <sup>3</sup> 750 ppm
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, граниčnim vrijednostima izloženosti i biološkim граниčnim vrijednostima (NN 1/2021)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	n-Butan
OEL TWA	1200 mg/m <sup>3</sup> 500 ppm
Regulatory reference	BEK nr 2203 af 29. november 2021
<b>Estonia - Occupational Exposure Limits</b>	
Local name	n-butaan
OEL TWA	1500 mg/m <sup>3</sup> 800 ppm
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 15.05.2021, 1)
<b>Finland - Occupational Exposure Limits</b>	
Local name	n-Butaani
HTP (OEL TWA)	1900 mg/m <sup>3</sup> 800 ppm
HTP (OEL STEL)	2400 mg/m <sup>3</sup> 1000 ppm
Remark	Happea syrjäyttämällä tukahduttavat kaasut.
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	1900 mg/m <sup>3</sup> 800 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	2400 mg/m <sup>3</sup> 1000 ppm
Peak exposure limitation factor	4(II)

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<b>n-Butane (&lt;0,01% Butadiene -1,3) (106-97-8)</b>	
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission)
Regulatory reference	TRGS900
<b>Greece - Occupational Exposure Limits</b>	
Local name	Βουτάνιο
OEL TWA	2350 mg/m <sup>3</sup> 1000 ppm
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
<b>Hungary - Occupational Exposure Limits</b>	
Local name	n-BUTÁN
AK (OEL TWA)	2350 mg/m <sup>3</sup>
CK (OEL STEL)	9400 mg/m <sup>3</sup>
Remark	N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Butane, all isomers: Butane
OEL STEL	1000 ppm
Regulatory reference	Chemical Agents Code of Practice 2021
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Butāns (kas satur vairāk nekā 0,1 % butadiēna)
OEL TWA	300 mg/m <sup>3</sup>
Regulatory reference	Ministru kabineta 2008. gada 29. septembra noteikumi Nr. 803 (Grozījumi Ministru kabineta 2020. gada 7. janvārī noteikumiem Nr. 10).
<b>Poland - Occupational Exposure Limits</b>	
Local name	Butan (n-butan)
NDS (OEL TWA)	1900 mg/m <sup>3</sup>
NDSch (OEL STEL)	3000 mg/m <sup>3</sup>
Regulatory reference	Dz. U. 2018 poz. 1286
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Butano, todos os isómeros
OEL STEL	1000 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Bután s obsahom ≥ 0,1% butadiénu (n-bután)
NPHV (OEL TWA)	2400 mg/m <sup>3</sup> 1000 ppm
Remark	Kategória karcinogénov 1A – Dokázaný karcinogén pre ľudí
Regulatory reference	Nariadenie vlády č. 356/2006 Z. z. (235/2020 Z. z.)

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<b>n-Butane (&lt;0,01% Butadiene -1,3) (106-97-8)</b>	
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	butan
OEL TWA	2400 mg/m <sup>3</sup>
	1000 ppm
OEL STEL	9600 mg/m <sup>3</sup>
	4000 ppm
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
<b>Spain - Occupational Exposure Limits</b>	
Local name	Butano
VLA-ED (OEL TWA)	1000 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Butane
WEL TWA (OEL TWA)	1450 mg/m <sup>3</sup>
	600 ppm
WEL STEL (OEL STEL)	1810 mg/m <sup>3</sup>
	750 ppm
Remark	Carc (Capable of causing cancer and/or heritable genetic damage, only applies if Butane contains more than 0.1% of buta-1,3-diene)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>Iceland - Occupational Exposure Limits</b>	
Local name	n-Bútan
OEL TWA	1200 mg/m <sup>3</sup>
	500 ppm
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr.390/2009)
<b>Norway - Occupational Exposure Limits</b>	
Local name	Butan
Grenseverdi (OEL TWA)	600 mg/m <sup>3</sup>
	250 ppm
Regulatory reference	FOR-2021-06-28-2248
<b>North Macedonia - Occupational Exposure Limits</b>	
Local name	Бутан
OEL TWA	2400 mg/m <sup>3</sup>
	1000 ppm
KTV	4
Short time value [mg/m <sup>3</sup> ]	9600 mg/m <sup>3</sup>
Short time value [ppm]	4000 ppm

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<b>n-Butane (&lt;0,01% Butadiene -1,3) (106-97-8)</b>	
Remark	(КТВ) краткотрајна вредност (КТВ) значи концентрација на опасни хемиски супстанции во воздухот на работното место внатре во зона на дишење, на која работникот без опасност по здравјето може да е изложен на покусо време. Изложеноста на краткотрајни вредности може да трае највеќе 15 минути и не смее да се повтори повеќе од четирипати во работната смена, при што меѓу две изложености на оваа концентрација мора да измине најмалку 60 минути. Краткотрајната вредност е изразена во mg/m <sup>3</sup> или во ml/m <sup>3</sup> (ppm) а е дадена како многукратни дозволени пречекорувања на граничната вредност
Regulatory reference	Правилник за минималните барања за безбедност и здравје при работа на вработени од ризици поврзани со изложување на хемиски супстанции („Службен весник на Република Македонија“ бр.46/10)
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	n-Butane / n-Butan
MAK (OEL TWA)	1900 mg/m <sup>3</sup> 800 ppm
KZGW (OEL STEL)	7600 mg/m <sup>3</sup> 3200 ppm
Critical toxicity	SNC / ZNS
Regulatory reference	www.suva.ch, 28.03.2022
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Butane
ACGIH OEL STEL	1000 ppm
Remark (ACGIH)	TLV® Basis: CNS impair
Regulatory reference	ACGIH 2022
<b>propane (74-98-6)</b>	
<b>Austria - Occupational Exposure Limits</b>	
Local name	Propan (R 290)
MAK (OEL TWA)	1800 mg/m <sup>3</sup> 1000 ppm
MAK (OEL STEL)	3600 mg/m <sup>3</sup> 2000 ppm
Regulatory reference	BGBl. II Nr. 156/2021
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Hydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1-C3) # Alifatische koolwaterstoffen in gas-vorm: Alkanen (C1-C3)
OEL TWA	1000 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
<b>Bulgaria - Occupational Exposure Limits</b>	
Local name	Пропан
OEL TWA	1800 mg/m <sup>3</sup>
Regulatory reference	Наредба № 13 от 30.12.2003 г. за заштита на работещите от ризици, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.)

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<b>propane (74-98-6)</b>	
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Propan (Flaskegas)
OEL TWA	1800 mg/m <sup>3</sup>
	1000 ppm
Regulatory reference	BEK nr 2203 af 29. november 2021
<b>Estonia - Occupational Exposure Limits</b>	
Local name	Propaan
OEL TWA	1800 mg/m <sup>3</sup>
	1000 ppm
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 15.05.2021, 1)
<b>Finland - Occupational Exposure Limits</b>	
Local name	Propaani
HTP (OEL TWA)	1500 mg/m <sup>3</sup>
	800 ppm
HTP (OEL STEL)	2000 mg/m <sup>3</sup>
	1100 ppm
Remark	Happea syrjäyttämällä tukahduttavat kaasut.
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	1800 mg/m <sup>3</sup>
	1000 ppm
Peak exposure limitation factor	4(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission)
Regulatory reference	TRGS900
<b>Greece - Occupational Exposure Limits</b>	
Local name	Προπάνιο
OEL TWA	1800 mg/m <sup>3</sup>
	1000 ppm
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Aliphatic hydrocarbon gases Alkanes (C1-C3): Propane
Remark	Asphx. (Gaseous chemical substances which may not produce significant physiological effects in the exposed employee, but when present in high concentrations will act as simple asphyxiants)
Regulatory reference	Chemical Agents Code of Practice 2021
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Propāns
OEL TWA	1800 mg/m <sup>3</sup>

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<b>propane (74-98-6)</b>	
	1000 ppm
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2015. gada 7. aprīlī noteikumiem Nr. 163)
<b>Poland - Occupational Exposure Limits</b>	
Local name	Propan
NDS (OEL TWA)	1800 mg/m <sup>3</sup>
Regulatory reference	Dz. U. 2018 poz. 1286
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	1400 mg/m <sup>3</sup>
	778 ppm
OEL STEL	1800 mg/m <sup>3</sup>
	1000 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	Propan
OEL TWA	1800 mg/m <sup>3</sup>
	1000 ppm
OEL STEL	7200 mg/m <sup>3</sup>
	4000 ppm
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
<b>Spain - Occupational Exposure Limits</b>	
Local name	Propano
VLA-ED (OEL TWA)	1000 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT
<b>Iceland - Occupational Exposure Limits</b>	
Local name	Própan (flöskugas)
OEL TWA	1800 mg/m <sup>3</sup>
	1000 ppm
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr.390/2009)
<b>Norway - Occupational Exposure Limits</b>	
Local name	Propan
Grenseverdi (OEL TWA)	900 mg/m <sup>3</sup>
	500 ppm
Regulatory reference	FOR-2021-06-28-2248
<b>North Macedonia - Occupational Exposure Limits</b>	
Local name	Пропан
OEL TWA	1800 mg/m <sup>3</sup>
	1000 ppm
KTV	4

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<b>propane (74-98-6)</b>	
Short time value [mg/m <sup>3</sup> ]	7200 mg/m <sup>3</sup>
Short time value [ppm]	4000 ppm
Remark	(КТВ) краткотрајна вредност (КТВ) значи концентрација на опасни хемиски супстанции во воздухот на работното место внатре во зона на дишење, на која работникот без опасност по здравјето може да е изложен на покусо време. Изложеноста на краткотрајни вредности може да трае највеќе 15 минути и не смее да се повтори повеќе од четирипати во работната смена, при што меѓу две изложености на оваа концентрација мора да измине најмалку 60 минути. Краткотрајната вредност е изразена во mg/m <sup>3</sup> или во ml/m <sup>3</sup> (ppm) а е дадена како многукратни дозволени пречекорувања на граничната вредност
Regulatory reference	Правилник за минималните барања за безбедност и здравје при работа на вработени од ризици поврзани со изложување на хемиски супстанции („Службен весник на Република Македонија” бр.46/10)
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	Propane / Propan
MAK (OEL TWA)	1800 mg/m <sup>3</sup> 1000 ppm
KZGW (OEL STEL)	7200 mg/m <sup>3</sup> 4000 ppm
Critical toxicity	Formel / Formal
Remark	NIOSH
Regulatory reference	www.suva.ch, 28.03.2022
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Propane
Remark (ACGIH)	TLV® Basis: Simple Asphyxiant
Regulatory reference	ACGIH 2022
<b>N-hexane (110-54-3)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	n-Hexane
IOEL TWA	72 mg/m <sup>3</sup> 20 ppm
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
<b>Albania - Occupational Exposure Limits</b>	
Local name	n-Hekzan
OEL TWA	72 mg/m <sup>3</sup> 20 ppm
Regulatory reference	VENDIM Nr. 522, datë 6.8.2014 PËR MIRATIMIN E RREGULLORES “PËR MBROJTJEN E SIGURISË DHE SHËNDETIT TË PUNËMARRËSVE NGA RISQET E LIDHURA ME AGJENTËT KIMIKË NË PUNË”
<b>Austria - Occupational Exposure Limits</b>	
Local name	n-Hexan
MAK (OEL TWA)	72 mg/m <sup>3</sup> 20 ppm

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<b>N-hexane (110-54-3)</b>	
MAK (OEL STEL)	288 mg/m <sup>3</sup>
	80 ppm
Remark	Fortpflanzungsgefährdend: f
Regulatory reference	BGBI. II Nr. 156/2021
<b>Belgium - Occupational Exposure Limits</b>	
Local name	n-Hexane # n-Hexaan
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
<b>Bulgaria - Occupational Exposure Limits</b>	
Local name	n-Хексан
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
Remark	• (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.)
<b>Croatia - Occupational Exposure Limits</b>	
Local name	n-Heksan
GVI (OEL TWA)	72 mg/m <sup>3</sup>
	20 ppm
Remark	Direktiva: 2006/15/EZ. Napomena: Koža (razvrstana kao tvar koja nadražuje kožu (H315))
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, граничним vrijednostima izloženosti i biološkim граничним vrijednostima (NN 148/2023)
<b>Cyprus - Occupational Exposure Limits</b>	
Local name	n-εξάνιο
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	Κανονισμοί του 2007 (Κ.Δ.Π. 295/2007)
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	n-Hexan
PEL (OEL TWA)	70 mg/m <sup>3</sup>
	19,5 ppm
NPK-P (OEL C)	200 mg/m <sup>3</sup>
	55,8 ppm
Remark	I - dráždí sliznice (oči, dýchací cesty) resp. kůži, D - při expozici se významně uplatňuje pronikání faktoru kůží, P - u látky nelze vyloučit závažné pozdní účinky (s větou H372, H373).
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.)

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<b>N-hexane (110-54-3)</b>	
<b>Denmark - Occupational Exposure Limits</b>	
Local name	n-Hexan
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
Remark	E (betyder, at stoffet har en EF-grænseværdi)
Regulatory reference	BEK nr 202 af 21/02/2023
<b>Estonia - Occupational Exposure Limits</b>	
Local name	n-heksaan
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 21.12.2022, 3)
<b>Finland - Occupational Exposure Limits</b>	
Local name	n-Heksaani
HTP (OEL TWA)	72 mg/m <sup>3</sup>
	20 ppm
Remark	lho
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
<b>France - Occupational Exposure Limits</b>	
Local name	n-Hexane
VME (OEL TWA)	72 mg/m <sup>3</sup>
	20 ppm
Remark	Valeurs réglementaires contraignantes. Toxique pour la reproduction de catégorie 2
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Local name	n-Hexan
AGW (OEL TWA)	180 mg/m <sup>3</sup>
	50 ppm
Peak exposure limitation factor	8(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
<b>Germany - Biological limit values (TRGS 903)</b>	
Local name	Hexan (n-Hexan)
Biological limit value	5 mg/l Parameter: 2,5-Hexandion plus 4,5-Dihydroxy-2-hexanon (nach Hydrolyse) - Untersuchungsmaterial: U = Urin - Probenahmezeitpunkt: b) Expositionsende, bzw. Schichtende - Festlegung/Begründung: 05/2013 DFG
Regulatory reference	TRGS 903

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<b>N-hexane (110-54-3)</b>	
<b>Gibraltar - Occupational Exposure Limits</b>	
Local name	n-Hexane
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)
<b>Greece - Occupational Exposure Limits</b>	
Local name	Εξάνιο, n- (n- εξάνιο)
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	Π.Δ. 162/2007 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
<b>Hungary - Occupational Exposure Limits</b>	
Local name	n-HEXÁN
AK (OEL TWA)	72 mg/m <sup>3</sup>
Remark	b (Bőrön át is felszívódik), i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát), BEM (biológiai expozíciós mutató); EU2 (2006/15/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 Exposure Indices</b>	
Local name	n-Hexán
BEI	2 mg/l Biológiai expozíciós (hatás) mutató: 2,5-hexán-dion (hidrolízis után) - Biológiai minta: vizeletben - Mintavétel ideje: m.v. (műszak végén)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
<b>Ireland - Occupational Exposure Limits</b>	
Local name	n-Hexane
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
Remark	IOELV (Indicative Occupational Exposure Limit Values), Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body)
Regulatory reference	Chemical Agents Code of Practice 2021
<b>Ireland - Biological limit values</b>	
Local name	Hexane
BLV	0,4 mg/l Parameter: 2,5-Hexanedion - Medium: urine - Sampling time: End of shift at end of workweek
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)
<b>Italy - Occupational Exposure Limits</b>	
Local name	n-Esano
OEL TWA	72 mg/m <sup>3</sup>

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<b>N-hexane (110-54-3)</b>	
	20 ppm
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
<b>Latvia - Occupational Exposure Limits</b>	
Local name	n-Heksāns
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
Remark	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>	
Local name	n-heksanas
IPRV (OEL TWA)	72 mg/m <sup>3</sup>
	20 ppm
Remark	R (reprodukcijai toksiškas poveikis)
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
<b>Luxembourg - Occupational Exposure Limits</b>	
Local name	n-Hexane
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	Mémorial A N° 226 de 2021 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail
<b>Malta - Occupational Exposure Limits</b>	
Local name	n-Hexane
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	S.L.424.24 - Chemical Agents at Work Regulations (L.N.356 of 2021)
<b>Netherlands - Occupational Exposure Limits</b>	
Local name	n-Hexaan
TGG-8u (OEL TWA)	72 mg/m <sup>3</sup>
	20 ppm
TGG-15min (OEL STEL)	144 mg/m <sup>3</sup>
	40 ppm
Regulatory reference	Arbeidsomstandighedenregeling 2024
<b>Poland - Occupational Exposure Limits</b>	
Local name	Heksan (n-heksan)
NDS (OEL TWA)	72 mg/m <sup>3</sup>
Remark	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286 wraz z późn. zm.

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<b>N-hexane (110-54-3)</b>	
<b>Portugal - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	n-Hexano
IOEL TWA	72 mg/m <sup>3</sup>
	20 ppm
Regulatory reference	Decreto-Lei n.º 1/2021 de 6 de janeiro
<b>Portugal - Occupational Exposure Limits</b>	
Local name	n-Hexano
OEL TWA	50 ppm
Remark	P (Toxicidade percutânea); IBE (Índice biológico de exposição)
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Portugal - Biological Exposure Indices</b>	
Local name	n-Hexano
BEI	0,4 mg/l Parâmetro: 2,5-Hexanodiona - Meio: urina - Momento da amostragem: Fim do turno no fim da semana de trabalho - Notação: Sem hidrólise
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Romania - Occupational Exposure Limits</b>	
Local name	n-Hexan
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
Remark	R2 - susceptibil de a dăuna fertilității
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
<b>Romania - Biological limit values</b>	
Local name	N-hexan
BLV	5 mg/g creatinine Indicador biologic: 2,5 hexandionă - Material biologic: urină - Momentul recoltării: sfârșit de schimb
<b>Serbia - Occupational Exposure Limits</b>	
Local name	н-хексан
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
Remark	ЕУ** – напомена да се ради о хемијским материјама за које су утврђене индикативне граничне вредности изложености према Директиви 2006/15/ЕЗ (друга листа)
Regulatory reference	ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама („Службени гласник РС”, бр. 106/09, 117/17 и 107/21)
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	n-Hexán
NPHV (OEL TWA)	72 mg/m <sup>3</sup>
	20 ppm
NPHV (OEL STEL)	140 mg/m <sup>3</sup>
	40 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)

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<b>N-hexane (110-54-3)</b>	
<b>Slovakia - Biological limit values</b>	
Local name	n-Hexán
BLV	5 mg/l Zisťovaný faktor: 2,5-Hexándion a 4,5-dihydroxy-2-hexanón - 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	n-heksan
OEL TWA	72 mg/m <sup>3</sup> 20 ppm
OEL STEL	576 mg/m <sup>3</sup> 160 ppm
Remark	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. 72/2021 z dne 11.5.2021
<b>Slovenia - Biological limit values</b>	
Local name	n-heksan
BLV	5 mg/l Parameter: 2,5-heksandion in 4,5-dihidroksi-2-heksanon (po hidrolizi) - Biološki vzorec: urin - Čas vzorčenja: ob koncu delovne izmene
<b>Spain - Occupational Exposure Limits</b>	
Local name	n-Hexano
VLA-ED (OEL TWA)	72 mg/m <sup>3</sup> 20 ppm
Remark	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 2023. INSHT
<b>Spain - Biological limit values</b>	
Local name	n-Hexano
BLV	0,2 mg/l Parámetro: 2,5-Hexanodiona - Medio: Orina - Momento de muestreo: Final de la semana laboral - Notas: Sin hidrólisis
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	n-Hexan
NGV (OEL TWA)	72 mg/m <sup>3</sup> 20 ppm
KGV (OEL STEL)	180 mg/m <sup>3</sup> 50 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	n-Hexane
WEL TWA (OEL TWA)	72 mg/m <sup>3</sup> 20 ppm

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<b>N-hexane (110-54-3)</b>	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>Iceland - Occupational Exposure Limits</b>	
Local name	n-Hexan
OEL TWA	72 mg/m <sup>3</sup> 20 ppm
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
<b>Norway - Occupational Exposure Limits</b>	
Local name	n-heksan
Grenseverdi (OEL TWA)	72 mg/m <sup>3</sup> 20 ppm
Remark	R: Kjemikalier som skal betraktes som reproduksjonstoksiske; E: EU har en veiledende grenseverdi og/eller anmerkning for stoffet.
Regulatory reference	FOR-2023-12-18-2278
<b>North Macedonia - Occupational Exposure Limits</b>	
Local name	n-хексан
OEL TWA	72 mg/m <sup>3</sup> 20 ppm
Remark	(* ) дополнување на граничната вредност заради донесената Директива на Комисијата 2006/15ES од 7 февруари 2006 за создавање на втора листа на индикативни гранични вредности за професионална изложеност според директивата 98/24/EC и за измените на директивата 91/322/EEC и директивата 2000/39/ EC (Сл. весник бр. 38 од ден 9.2.2006, стр. 36); (BAT) биолошка гранична вредност – праг на биолошка гранична вредност, што значи предупредување на опасна хемиска супстанца и нејзини метаболити во ткивата, телесните течности или издишувањето на воздухот, без оглед на тоа, дали опасната хемиска супстанца е внесена во организмот со вдишување, голтање или преку кожата; (EU) European Union – гранична вредност, определена на ниво на Европската унија
Regulatory reference	Правилник за минималните барања за безбедност и здравје при работа на вработени од ризици поврзани со изложување на хемиски супстанции („Службен весник на Република Македонија“ бр.46/10)
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	n-Hexane / n-Hexan
MAK (OEL TWA)	180 mg/m <sup>3</sup> 50 ppm
KZGW (OEL STEL)	1440 mg/m <sup>3</sup> 400 ppm
Critical toxicity	Yeux, SN / Auge, NS
Notation	R, R2, SSç, B / H, R2, SSç, B
Remark	NIOSH
Regulatory reference	www.suva.ch, 01.01.2024
<b>Switzerland - BAT</b>	
Local name	n-Hexane / n-Hexan

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<b>N-hexane (110-54-3)</b>	
BAT	5 mg/l (Paramètre biologique: 2,5-Hexanedione + 4,5-Dihydroxy-2-hexanone; Substrat d'examen: Urine; Moment du prélèvement: Fin de l'exposition, de la période de travail.) / (Biologischer Parameter: 2,5-Hexandion plus 4,5-Dihydroxy-2-hexanon; Untersuchungsmaterial: Urin; Probennahmezeitpunkt: Expositionsende, bzw. Schichtende.)
Remark	Paramètre non spécifique. / Nicht spezifischer Parameter.
Regulatory reference	Ordonnance 832.30 (OPA), article 50 al. 3, <a href="http://www.suva.ch/valeurs-limites">www.suva.ch/valeurs-limites</a> / Verordnung 832.30 (VUV), Art. 50 Abs. 3, <a href="http://www.suva.ch/grenzwerte">www.suva.ch/grenzwerte</a>
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	n-Hexane
ACGIH OEL TWA	50 ppm
Remark (ACGIH)	TLV® Basis: CNS impair; peripheral neuropathy; eye irr. Notations: Skin; BEI
Regulatory reference	ACGIH 2024
<b>USA - ACGIH - Biological Exposure Indices</b>	
BEI	0,5 mg/l Parameter: 2,5-Hexanedione (without hydrolysis) - Medium: urine - Sampling time: End of shift
Regulatory reference	ACGIH 2024
<b>Cyclohexane (110-82-7)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Cyclohexane
IOEL TWA	700 mg/m <sup>3</sup> 200 ppm
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
<b>Albania - Occupational Exposure Limits</b>	
Local name	Cikloheksan
OEL TWA	700 mg/m <sup>3</sup> 200 ppm
Regulatory reference	VENDIM Nr. 522, datë 6.8.2014 PËR MIRATIMIN E RREGULLORES "PËR MBROJTJEN E SIGURISË DHE SHËNDETIT TË PUNËMARRËSVE NGA RISQET E LIDHURA ME AGJENTËT KIMIKË NË PUNË"
<b>Austria - Occupational Exposure Limits</b>	
Local name	Cyclohexan
MAK (OEL TWA)	700 mg/m <sup>3</sup> 200 ppm
MAK (OEL STEL)	2800 mg/m <sup>3</sup> 800 ppm
Regulatory reference	BGBI. II Nr. 156/2021
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Cyclohexane # Cyclohexaan
OEL TWA	350 mg/m <sup>3</sup> 100 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021

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Cyclohexane (110-82-7)	
<b>Bulgaria - Occupational Exposure Limits</b>	
Local name	Циклохексан
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
Remark	• (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.)
<b>Croatia - Occupational Exposure Limits</b>	
Local name	Cikloheksan
GVI (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
Remark	Direktiva: 2006/15/EZ. Napomena: Koža (razvrstana kao tvar koja nadražuje kožu (H315))
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, граниčnim vrijednostima izloženosti i biološkim граниčnim vrijednostima (NN 1/2021)
<b>Cyprus - Occupational Exposure Limits</b>	
Local name	Κυκλοεξάνιο
OEL TWA	7000 mg/m <sup>3</sup>
	200 ppm
Regulatory reference	Κανονισμοί του 2007 (Κ.Δ.Π. 295/2007)
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Cyklohexan
PEL (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
NPK-P (OEL C)	2000 mg/m <sup>3</sup>
	572 ppm
Remark	I - dráždí sliznice (oči, dýchací cesty), respektive kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Cyclohexan
OEL TWA	172 mg/m <sup>3</sup>
	50 ppm
Remark	E (betyder, at stoffet har en EF-grænseværdi)
Regulatory reference	BEK nr 2203 af 29. november 2021
<b>Estonia - Occupational Exposure Limits</b>	
Local name	Tsükloheksaan
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 15.05.2021, 1)

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<b>Cyclohexane (110-82-7)</b>	
<b>Finland - Occupational Exposure Limits</b>	
Local name	Sykloheksaani
HTP (OEL TWA)	350 mg/m <sup>3</sup>
	100 ppm
HTP (OEL STEL)	875 mg/m <sup>3</sup>
	250 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
<b>France - Occupational Exposure Limits</b>	
Local name	Cyclohexane
VME (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
VLE (OEL C/STEL)	1300 mg/m <sup>3</sup>
	375 ppm
Remark	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
Peak exposure limitation factor	4(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich)
Regulatory reference	TRGS900
<b>Germany - Biological limit values (TRGS 903)</b>	
Local name	Cyclohexan
Biological limit value	150 mg/g creatinine Parameter: 1,2-Cyclohexandiol (nach Hydrolyse) - Untersuchungsmaterial: U = Urin - Probenahmezeitpunkt: c) bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten, b) Expositionsende, bzw. Schichtende - Festlegung/Begründung: 11/2012 DFG
Regulatory reference	TRGS 903
<b>Gibraltar - Occupational Exposure Limits</b>	
Local name	Cyclohexane
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)
<b>Greece - Occupational Exposure Limits</b>	
Local name	Κυκλοεξάνιο
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm

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Cyclohexane (110-82-7)	
Regulatory reference	Π.Δ. 162/2007 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Hungary - Occupational Exposure Limits	
Local name	CIKLOHEXÁN
AK (OEL TWA)	700 mg/m <sup>3</sup>
Remark	EU2 (2006/15/EK irányelvben közölt érték); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
Local name	Cyclohexane
OEL TWA	700 mg/m <sup>3</sup> 200 ppm
Remark	IOELV (Indicative Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2021
Italy - Occupational Exposure Limits	
Local name	Cicloesano
OEL TWA	350 mg/m <sup>3</sup> 100 ppm
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Cikloheksāns
OEL TWA	80 mg/m <sup>3</sup> 23 ppm
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
Lithuania - Occupational Exposure Limits	
Local name	Cikloheksanas
IPRV (OEL TWA)	700 mg/m <sup>3</sup> 200 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Luxembourg - Occupational Exposure Limits	
Local name	Cyclohexane
OEL TWA	700 mg/m <sup>3</sup> 200 ppm
Regulatory reference	Mémorial A N° 226 de 2021 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail
Malta - Occupational Exposure Limits	
Local name	Cyclohexane
OEL TWA	700 mg/m <sup>3</sup> 200 ppm

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Cyclohexane (110-82-7)	
Regulatory reference	S.L.424.24 - Chemical Agents at Work Regulations (L.N.356 of 2021)
Netherlands - Occupational Exposure Limits	
Local name	Cyclohexaan
TGG-8u (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
TGG-15min (OEL STEL)	1400 mg/m <sup>3</sup>
	400 ppm
Regulatory reference	Arbeidsomstandighedenregeling 2024
Poland - Occupational Exposure Limits	
Local name	Cykloheksan
NDS (OEL TWA)	300 mg/m <sup>3</sup>
NDSch (OEL STEL)	1000 mg/m <sup>3</sup>
Remark	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Ciclo-hexano
OEL TWA	100 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Ciclohexan
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Serbia - Occupational Exposure Limits	
Local name	циклохексан
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
Remark	ЕУ** – напомена да се ради о хемијским материјама за које су утврђене индикативне граничне вредности изложености према Директиви 2006/15/ЕЗ (друга листа)
Regulatory reference	ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад при излагању хемијским материјама („Службени гласник РС”, бр. 106/09, 117/17 и 107/21)
Slovakia - Occupational Exposure Limits	
Local name	Cyklohexán
NPHV (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	cikloheksan
OEL TWA	700 mg/m <sup>3</sup>

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Cyclohexane (110-82-7)	
	200 ppm
OEL STEL	2800 mg/m <sup>3</sup>
	800 ppm
Remark	BAT (Biološka mejna vrednost), EU
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
Slovenia - Biological limit values	
Local name	cikloheksan
BLV	150 mg/g creatinine Parameter: 1,2-cikloheksandiol (po hidrolizi) - Biološki vzorec: urin - Čas vzorčenja: ob koncu delovne izmene, pri dolgotrajni izpostavljenosti: ob koncu delovne izmene po več zaporednih delavnikih
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
Spain - Occupational Exposure Limits	
Local name	Ciclohexano
VLA-ED (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
Remark	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) n° 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 2022. INSHT
Sweden - Occupational Exposure Limits	
Local name	Cyklohexan
NGV (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
Local name	Cyclohexane
WEL TWA (OEL TWA)	350 mg/m <sup>3</sup>
	100 ppm
WEL STEL (OEL STEL)	1050 mg/m <sup>3</sup>
	300 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Sýklóhexan
OEL TWA	175 mg/m <sup>3</sup>
	50 ppm
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)

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Cyclohexane (110-82-7)	
<b>Norway - Occupational Exposure Limits</b>	
Local name	Sykloheksan
Grenseverdi (OEL TWA)	525 mg/m <sup>3</sup>
	150 ppm
Remark	E: EU har en veiledende grenseverdi og/eller anmerkning for stoffet.
Regulatory reference	FOR-2021-06-28-2248
<b>North Macedonia - Occupational Exposure Limits</b>	
Local name	циклохексан
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
Remark	(BAT) биолошка гранична вредност – праг на биолошка гранична вредност, што значи предупредување на опасна хемиска супстанца и нејзини метаболити во ткивата, телесните течности или издишувањето на воздухот, без оглед на тоа, дали опасната хемиска супстанца е внесена во организмот со вдишување, голтање или преку кожата; (EU) European Union – гранична вредност, определена на ниво на Европската унија
Regulatory reference	Правилник за минималните барања за безбедност и здравје при работа на вработени од ризици поврзани со изложување на хемиски супстанции („Службен весник на Република Македонија“ бр.46/10)
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	Cyclohexane / Cyclohexan
MAK (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
KZGW (OEL STEL)	2800 mg/m <sup>3</sup>
	800 ppm
Critical toxicity	SNC / ZNS
Notation	B / B
Remark	NIOSH
Regulatory reference	www.suva.ch, 28.03.2022
<b>Switzerland - BAT</b>	
Local name	Cyclohexane / Cyclohexan
BAT	150 mg/g creatinine (146 µmol/mmol cr.; Paramètre biologique: 1,2-Cyclohexanediol total; Substrat d'examen: Urine; Moment du prélèvement: Fin de l'exposition, de la période de travail. Exposition de longue durée: après plusieurs périodes de travail.) / (146 µmol/mmol cr.; Biologischer Parameter: Gesamt-1,2-Cyclohexandiol; Untersuchungsmaterial: Urin; Probennahmezeitpunkt: Expositionsende, bzw. Schichtende. Bei Langzeitexposition: nach mehreren vorangegangenen Schichten.)
Regulatory reference	Ordonnance 832.30 (OPA), article 50 al. 3, www.suva.ch/valeurs-limites / Verordnung 832.30 (VUV), Art. 50 Abs. 3, www.suva.ch/grenzwerte
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Cyclohexane
ACGIH OEL TWA	100 ppm
Remark (ACGIH)	TLV® Basis: CNS impair

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### Cyclohexane (110-82-7)

Regulatory reference	ACGIH 2022
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#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

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



##### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

#### Eye protection

Type	Field of application	Characteristics	Standard
Safety goggles	Droplet	clear	EN 166

##### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

#### Hand protection

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.35		EN ISO 374

##### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

##### 8.2.2.4. Thermal hazards

No additional information available

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### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: > -42 – ≤ 95 °C
Flammability	: Extremely flammable aerosol.
Explosive properties	: Pressurised container: May burst if heated.
Explosive limits	: Not available
Lower explosion limit	: 1,1 vol %
Upper explosion limit	: 9,5 vol %
Flash point	: -20 °C
Auto-ignition temperature	: 365 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 1 mm <sup>2</sup> /s @ 40°C
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 853 kPa @ 20°C
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 0,737 @ 20°C
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1)	: 7
VOC content	: 92 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available.

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### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

#### n-Butane (<0,01% Butadiene -1,3) (106-97-8)

LD50 oral (rat)	> 5000 mg/kg
LD50 dermal (rat)	> 5000 mg/kg
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	658 mg/l/4h

#### propane (74-98-6)

LD50 oral (rat)	> 5000 mg/kg
LD50 dermal (rat)	> 5000 mg/kg
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 50 mg/l/4h

#### Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic

LD50 oral (rat)	> 5000 mg/kg
LD50 dermal (rabbit)	> 5000 mg/kg
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 50 mg/l/4h

#### Hydrocarbons, C6, iso-alkanes, <5% n-hexane

LD50 oral (rat)	> 5000 mg/kg
LD50 dermal (rat)	> 2000 mg/kg
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 50 mg/l/4h

#### N-hexane (110-54-3)

LD50 oral (rat)	> 5000 mg/kg
LD50 dermal (rabbit)	> 5000 mg/kg
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 50 mg/l/4h

#### Cyclohexane (110-82-7)

LD50 oral (rat)	> 5000 mg/kg
LD50 dermal (rabbit)	> 2000 mg/kg
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 32,88 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : May cause drowsiness or dizziness.

#### Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic

STOT-single exposure	May cause drowsiness or dizziness.
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Hydrocarbons, C6, iso-alkanes, <5% n-hexane	
STOT-single exposure	May cause drowsiness or dizziness.
N-hexane (110-54-3)	
STOT-single exposure	May cause drowsiness or dizziness.
Cyclohexane (110-82-7)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	
LOAEC (inhalation, rat, vapour, 90 days)	16,6 mg/l
NOAEC (inhalation, rat, vapour, 90 days)	3,3 mg/l
N-hexane (110-54-3)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
LUB009717 - Rymax Silicone Spray	
Viscosity, kinematic	1 mm <sup>2</sup> /s @ 40°C
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	
Viscosity, kinematic	0,5 – 1,2 mm <sup>2</sup> /s @ 20°C
Hydrocarbons, C6, iso-alkanes, <5% n-hexane	
Viscosity, kinematic	0,3 – 0,6 mm <sup>2</sup> /s @ 20°C
N-hexane (110-54-3)	
Viscosity, kinematic	0,47 – 0,55 mm <sup>2</sup> /s @ 20°C
Cyclohexane (110-82-7)	
Viscosity, kinematic	1,16 mm <sup>2</sup> /s @ 26°C
11.2. Information on other hazards	
No additional information available	
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.
Not rapidly degradable	
n-Butane (<0,01% Butadiene -1,3) (106-97-8)	
LC50 - Fish [1]	24,11 mg/l
EC50 96h - Algae [1]	7,71 mg/l
propane (74-98-6)	
LC50 - Fish [1]	49,9 mg/l
EC50 96h - Algae [1]	11,89 mg/l

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<b>Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic</b>	
NOEC chronic crustacea	0,17 mg/l Daphnia magna (21d)
<b>Hydrocarbons, C6, iso-alkanes, &lt;5% n-hexane</b>	
LC50 - Fish [1]	8,2 – 10 mg/l
EC50 - Crustacea [1]	4,5 mg/l
ErC50 algae	3,1 mg/l
<b>Cyclohexane (110-82-7)</b>	
LC50 - Fish [1]	4,53 mg/l Pimephales promelas (OECD 203)
EC50 - Crustacea [1]	0,9 mg/l Daphnia magna (OECD 202)
EC50 72h - Algae [1]	9,317 mg/l Pseudokirchneriella subcapitata (OECD 201)
NOEC chronic algae	925 µg/L (72h)
<b>12.2. Persistence and degradability</b>	
<b>n-Butane (&lt;0,01% Butadiene -1,3) (106-97-8)</b>	
Persistence and degradability	Readily biodegradable in water.
<b>propane (74-98-6)</b>	
Persistence and degradability	Readily biodegradable in water.
<b>N-hexane (110-54-3)</b>	
Persistence and degradability	Readily biodegradable.
ThOD	3,52 g O <sub>2</sub> /g substance
<b>Cyclohexane (110-82-7)</b>	
Persistence and degradability	Readily biodegradable.
<b>12.3. Bioaccumulative potential</b>	
<b>n-Butane (&lt;0,01% Butadiene -1,3) (106-97-8)</b>	
Bioconcentration factor (BCF REACH)	33
Partition coefficient n-octanol/water (Log Pow)	2,89 @ 20°C
<b>propane (74-98-6)</b>	
Bioconcentration factor (BCF REACH)	13
Partition coefficient n-octanol/water (Log Pow)	> 1,1 – ≤ 2,8 @ 20°C
<b>N-hexane (110-54-3)</b>	
Bioconcentration factor (BCF REACH)	501,187
Partition coefficient n-octanol/water (Log Pow)	4 @ 20°C
<b>Cyclohexane (110-82-7)</b>	
BCF - Fish [1]	167 l/kg
Partition coefficient n-octanol/water (Log Pow)	3,44 @ 25°C

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### 12.4. Mobility in soil

#### n-Butane (<0,01% Butadiene -1,3) (106-97-8)

Surface tension	0,01187 N/m @ 25°C
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	900

#### propane (74-98-6)

Surface tension	0,00702 N/m @ 25°C
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	460

#### N-hexane (110-54-3)

Surface tension	17,89 mN/m (@ 25°C, 1 g/l)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3,34

#### Cyclohexane (110-82-7)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2,89
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### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.
European List of Waste (LoW, EC 2000/532)	: 16 05 04* - gases in pressure containers (including halons) containing dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances

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HP Code	: HP3 - "Flammable:" – flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; – flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; – flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; – flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; – water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; – other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. 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. HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment
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### SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
<b>14.2. UN proper shipping name</b>				
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
<b>Transport document description</b>				
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1	UN 1950 AEROSOLS, 2.1
<b>14.3. Transport hazard class(es)</b>				
2.1	2.1	2.1	2.1	2.1
				
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E0

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Packing instructions (ADR)	: P207
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV12
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D

### Transport by sea

Special provisions (IMDG)	: 63, 190, 277, 327, 344, 381, 959
Limited quantities (IMDG)	: SP277
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P207, LP200
Special packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Stowage category (IMDG)	: None
Stowage and handling (IMDG)	: SW1, SW22
Segregation (IMDG)	: SG69

### Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L

### Inland waterway transport

Classification code (ADN)	: 5F
Special provisions (ADN)	: 190, 327, 344, 625
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01, VE04
Number of blue cones/lights (ADN)	: 1

### Rail transport

Classification code (RID)	: 5F
Special provisions (RID)	: 190, 327, 344, 625
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P207, LP200
Special packing provisions (RID)	: PP87, RR6, L2
Mixed packing provisions (RID)	: MP9
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W14
Special provisions for carriage - Loading, unloading and handling (RID)	: CW9, CW12
Colis express (express parcels) (RID)	: CE2
Hazard identification number (RID)	: 23

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

###### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

###### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

###### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

###### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

###### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

###### Ozone Regulation (1005/2009)

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

###### VOC Directive (2004/42)

VOC content : 92 %

###### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

###### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

##### 15.1.2. National regulations

###### France

Occupational diseases	
Code	Description
RG 59	Occupational poisoning by hexane
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

###### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

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

Major Accidents Ordinance (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

###### Netherlands

ABM category : Z(2) - biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/reprotoxicity/bioacumulative potential or toxicity)

Ministry's list of carcinogens : None of the components are listed

Ministry's list of mutagens : None of the components are listed

NON-exhaustive list of reproductive toxins - : None of the components are listed

Breastfeeding

NON-exhaustive list of reproductive toxins - Fertility : N-hexane is listed

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NON-exhaustive list of reproductive toxins - Evolution : None of the components are listed

### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed  
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

### Switzerland

Storage class (LK) : LK 2 - Liquefied or pressurized gases

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

ACGIH	American Conference of Government Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level

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### Abbreviations and acronyms:

NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
PPE	Personal protection equipment
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	Unique Formula Identifier

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

Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 2	Flammable liquids, Category 2
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.

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Full text of H- and EUH-statements:	
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet (SDS), EU RYMAX 2023

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.