



# Rustins Metal Lacquer

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 3/12/2024 Revision date: 10/23/2023 Supersedes version of: 10/23/2023 Version: 9.1

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Rustins Metal Lacquer  
UFI : X300-D0AQ-900E-2KRH  
Product code : TRAL  
Type of product : Paint  
Product group : End product

#### 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 : Consumer use, Professional use

##### 1.2.2. Uses advised against

Restrictions on use : Coatings and paints, thinners, paint removers

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

##### Supplier

Rustins Ltd  
Waterloo road  
NW2 7TX London  
United Kingdom  
T +442084504666, F +44 (0)208 452 2008  
[rustins@rustins.co.uk](mailto:rustins@rustins.co.uk), [rustins.ltd](http://rustins.ltd)

##### Distributor

Excellence Ltd  
43 Grange Parade,  
Unit 43  
Baldoyle Industrial Estate,  
D13 Y860 Dublin  
Ireland  
T 00353 (0)1 8323300, F 00353 (0)1 8323584  
[Orders@excellence.ie](mailto:Orders@excellence.ie), [www.excellence.ie](http://www.excellence.ie)

##### Distributor

BSR Limited trading as GMR Imports  
4  
Bute Street  
PO Box 279  
Invercargill, 9810  
T 0800800718  
[info@gmrimports.co.nz](mailto:info@gmrimports.co.nz), [www.gmrimports.co.nz](http://www.gmrimports.co.nz)

#### 1.4. Emergency telephone number

Emergency number : +44 (0) 208 450 4666  
OFFICE HOURS ONLY MON. - FRI. 08:00 - 16.30

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
New Zealand	Local Poison Centre	Invercargill	0800 764 766	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	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]

Flammable liquids, Category 2	H225
Acute toxicity (inhalation:vapour) Category 4	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Carcinogenicity, Category 2	H351
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336

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

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

Highly flammable liquid and vapour. Suspected of causing cancer. May cause drowsiness or dizziness. Harmful if inhaled. Causes serious eye irritation.

#### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: butanone; ethyl methyl ketone; 4-methylpentan-2-one; isobutyl methyl ketone; butan-1-ol; n-butanol; propan-2-ol; isopropyl alcohol; isopropanol; XYLENE

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H336 - May cause drowsiness or dizziness.

H351 - Suspected of causing cancer (if swallowed).

Precautionary statements (CLP)

: P102 - Keep out of reach of children.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

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

No smoking.

P233 - Keep container tightly closed.

P241 - Use explosion-proof electrical/ventilating/lighting equipment.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear eye protection, face protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P312 - Call a POISON CENTER if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use media other than water to extinguish.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

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### 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]
XYLENE substance with national workplace exposure limit(s) (GB)	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9 REACH-no: 01-2119488216-32	35 – 45	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315
4-methylpentan-2-one; isobutyl methyl ketone substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, IS, NO, MK, RS, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 108-10-1 EC-No.: 203-550-1 EC Index-No.: 606-004-00-4 REACH-no: 01-2119473980-30	15 – 25	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336
butanone; ethyl methyl ketone substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, IS, NO, MK, RS, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3 REACH-no: 01-2119457290-43	5 – 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
butan-1-ol; n-butanol substance with national workplace exposure limit(s) (GB, IE)	CAS-No.: 71-36-3 EC-No.: 200-751-6 EC Index-No.: 603-004-00-6 REACH-no: 01-2119484630-38	2 – 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335
4-hydroxy-4-methylpentan-2-one; diacetone alcohol substance with national workplace exposure limit(s) (AT, BE, CZ, DK, EE, ES, FI, FR, GB, GR, HR, IE, LT, PL, PT, RO, SE, SI, IS, NO, MK, CH)	CAS-No.: 123-42-2 EC-No.: 204-626-7 EC Index-No.: 603-016-00-1 REACH-no: It is not required to list the identified uses because the substance is not subject to registration	3 – 4	Eye Irrit. 2, H319
propan-2-ol; isopropyl alcohol; isopropanol substance with national workplace exposure limit(s) (GB, IE)	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25	0.6 – 1.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
4-hydroxy-4-methylpentan-2-one; diacetone alcohol	CAS-No.: 123-42-2 EC-No.: 204-626-7 EC Index-No.: 603-016-00-1 REACH-no: It is not required to list the identified uses because the substance is not subject to registration	(10 ≤ C ≤ 100) Eye Irrit. 2, H319

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	: IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
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 skin contact	: Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Eye irritation.

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

Fire hazard	: Highly flammable liquid and vapour.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

### 5.3. Advice for firefighters

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

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

#### 6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
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#### 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".
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### 6.2. Environmental precautions

Avoid release to the environment.

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

- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
- Hygiene measures : 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 : Ground/bond container and receiving equipment.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

#### Switzerland

- Storage class (LK) : LK 3 - Flammable liquids

### 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

Rustins Metal Lacquer	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Butanone
IOEL TWA	600 mg/m <sup>3</sup>
	200 ppm
IOEL STEL	900 mg/m <sup>3</sup>
	300 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Alcool isopropylique # Isopropylalcohol
OEL TWA	500 mg/m <sup>3</sup>
	200 ppm

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Rustins Metal Lacquer	
OEL STEL	1000 mg/m <sup>3</sup>
	400 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
Croatia - Biological limit values	
Local name	Propan-2-ol
BLV	50 mg/l Karakteristični pokazatelj: aceton - Biološki uzorak: krv - Vrijeme uzorkovanja: na kraju radne smjene 0.86 µmol/l Karakteristični pokazatelj: aceton - Biološki uzorak: krv - Vrijeme uzorkovanja: na kraju radne smjene 50 mg/l Karakteristični pokazatelj: aceton - Biološki uzorak: mokraća - Vrijeme uzorkovanja: na kraju radne smjene 0.86 µmol/l Karakteristični pokazatelj: aceton - Biološki uzorak: mokraća - Vrijeme uzorkovanja: na kraju radne smjene
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 91/2018)
Cyprus - Occupational Exposure Limits	
Local name	Βουτανόνη
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
Regulatory reference	Κανονισμοί του 2007 (Κ.Δ.Π. 295/2007)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Propan-2-ol
AGW (OEL TWA)	500 mg/m <sup>3</sup>
	200 ppm
Peak exposure limitation factor	2(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Gibraltar - Occupational Exposure Limits	
Local name	Butanone
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)
Ireland - Occupational Exposure Limits	
Local name	Isopropyl alcohol [Propan-2-ol]
OEL TWA	200 ppm
OEL STEL	400 ppm

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Remark	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>Italy - Occupational Exposure Limits</b>	
Local name	Butanone
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 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	2-Butanons (metiletilketons, etilmetilketons)
OEL TWA	200 mg/m <sup>3</sup>
	67 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
<b>Luxembourg - Occupational Exposure Limits</b>	
Local name	Butanone
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 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	Butanone
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
Regulatory reference	S.L.424.24 - Chemical Agents at Work Regulations (L.N.356 of 2021)
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Metiletilcetona (MEK) (2-Butanona)
OEL TWA	200 ppm
OEL STEL	300 ppm
Remark	IBE (Índice biológico de exposição)
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Romania - Occupational Exposure Limits</b>	
Local name	Alcool izopropilic/2-Propanol

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OEL TWA	200 mg/m <sup>3</sup>
	81 ppm
OEL STEL	500 mg/m <sup>3</sup>
	203 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Romania - Biological limit values	
Local name	Alcool izopropilic
BLV	50 mg/l Indicator biologic: Acetonă - Material biologic: urină - Momentul recoltării: sfârșit de schimb
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 584/2018)
Serbia - Occupational Exposure Limits	
Local name	бутанон; метил-етил-кетон
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
Remark	EУ* – напомена да се ради о хемијским материјама за које су утврђене индикативне граничне вредности изложености према Директиви 2000/39/ЕЗ (прва 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)
Slovenia - Occupational Exposure Limits	
Local name	propan-2-ol (izopropilalkohol; izopropanol)
OEL TWA	500 mg/m <sup>3</sup>
	200 ppm
OEL STEL	1000 mg/m <sup>3</sup>
	400 ppm
Remark	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biološka mejna vrednost)
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
Slovenia - Biological limit values	
Local name	2-propanol
BLV	25 mg/l Parameter: acetone - Biološki vzorec: kri - Čas vzorčenja: ob koncu delovne izmene 25 mg/l Parameter: acetone - Biološki vzorec: urin - Čas vzorčenja: ob koncu delovne izmene
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
Spain - Occupational Exposure Limits	
Local name	Isopropanol (Alcohol isopropílico)
VLA-ED (OEL TWA)	500 mg/m <sup>3</sup>
	200 ppm
VLA-EC (OEL STEL)	1000 mg/m <sup>3</sup>



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	400 ppm
Remark	VLB® (Agente químico que tiene Valor Límite Biológico), s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: <a href="http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas">http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas</a> Base de datos de productos fitosanitarios <a href="http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf</a> ).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT
Spain - Biological limit values	
Local name	Isopropanol (Alcohol isopropílico)
BLV	40 mg/l Parámetro: Acetona - Medio: Orina - Momento de muestreo: Final de la semana 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), I (Significa que el indicador biológico es inespecífico puesto que puede encontrarse después de la exposición a otros agentes químicos)
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT
North Macedonia - Occupational Exposure Limits	
Local name	пропан-2-ол (изопропилалкохол; изопропанол)
OEL TWA	500 mg/m <sup>3</sup> 200 ppm
KTV	4
Short time value [mg/m <sup>3</sup> ]	2000 mg/m <sup>3</sup>
Short time value [ppm]	800 ppm
Remark	(KTV) краткотрајна вредност (KTV) 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; (Y); (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
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)
4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2)	
Austria - Occupational Exposure Limits	
Local name	4-Hydroxy-4-methylpentan-2-on (Diacetonalkohol)
MAK (OEL TWA)	240 mg/m <sup>3</sup> 50 ppm
Remark	H
Regulatory reference	BGBl. II Nr. 156/2021

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4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2)	
<b>Belgium - Occupational Exposure Limits</b>	
Local name	4-Hydroxy-4-méthyl-2-pentanone # 4-Hydroxy-4-methyl-2-pentanon
OEL TWA	241 mg/m <sup>3</sup>
	50 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
<b>Croatia - Occupational Exposure Limits</b>	
Local name	4-Hidroksi-4-metil-pentan-2-on (diaceton-alkohol)
GVI (OEL TWA)	241 mg/m <sup>3</sup>
	50 ppm
KGVI (OEL STEL)	362 mg/m <sup>3</sup>
	75 ppm
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 148/2023)
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Diacetonalkohol
PEL (OEL TWA)	200 mg/m <sup>3</sup>
	41.4 ppm
NPK-P (OEL C)	300 mg/m <sup>3</sup>
	62.1 ppm
Remark	I - dráždí sliznice (oči, dýchací cesty) resp. kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Diacetonealkohol (4-Hydroxy-4-methyl-2-pentanon)
OEL TWA	240 mg/m <sup>3</sup>
	50 ppm
Regulatory reference	BEK nr 202 af 21/02/2023
<b>Estonia - Occupational Exposure Limits</b>	
Local name	4-hüdroksü-4-metüül-2-pentaan (diatsetoonalkohol)
OEL TWA	120 mg/m <sup>3</sup>
	25 ppm
OEL STEL	240 mg/m <sup>3</sup>
	50 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	Diasetonialkoholi
HTP (OEL TWA)	240 mg/m <sup>3</sup>
	50 ppm
HTP (OEL STEL)	360 mg/m <sup>3</sup>
	75 ppm

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<b>4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2)</b>	
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
<b>France - Occupational Exposure Limits</b>	
Local name	Diacétone-alcool
VME (OEL TWA)	240 mg/m <sup>3</sup> 50 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)
<b>Greece - Occupational Exposure Limits</b>	
Local name	Διακετονική αλκοόλη
OEL TWA	240 mg/m <sup>3</sup> 50 ppm
OEL STEL	360 mg/m <sup>3</sup> 75 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	Diacetone alcohol [4-Hydroxy-4-methyl-pentan-2-one]
OEL TWA	240 mg/m <sup>3</sup> 50 ppm
Regulatory reference	Chemical Agents Code of Practice 2021
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	Diacetono alkoholis
IPRV (OEL TWA)	120 mg/m <sup>3</sup> 25 ppm
TPRV (OEL STEL)	240 mg/m <sup>3</sup> 50 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
<b>Poland - Occupational Exposure Limits</b>	
Local name	4-Hydroksy-4-metylopentan-2-on (alkohol diacetonowy)
NDS (OEL TWA)	240 mg/m <sup>3</sup>
Regulatory reference	Dz. U. 2018 poz. 1286 wraz z późn. zm.
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Álcool diacetónico (4-hidroxi-4-metil-2-pentanona)
OEL TWA	50 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Romania - Occupational Exposure Limits</b>	
Local name	4-Hidroxi-4metil 2 pentanonă/Diaceton-alcool
OEL TWA	150 mg/m <sup>3</sup> 32 ppm

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4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2)	
OEL STEL	250 mg/m <sup>3</sup>
	53 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	4-hidroksi-4-metilpentan-2-on (diacetonalkohol)
OEL TWA	96 mg/m <sup>3</sup>
	20 ppm
OEL STEL	192 mg/m <sup>3</sup>
	40 ppm
Remark	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo)
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
<b>Spain - Occupational Exposure Limits</b>	
Local name	Diacetona alcohol
VLA-ED (OEL TWA)	241 mg/m <sup>3</sup>
	50 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	4-Hydroxi-4-metyl-2-pentanon (Diacetonalkohol)
NGV (OEL TWA)	120 mg/m <sup>3</sup>
	25 ppm
KGV (OEL STEL)	240 mg/m <sup>3</sup>
	50 ppm
Remark	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>	
Local name	4-Hydroxy-4-methylpentan-2-one
WEL TWA (OEL TWA)	241 mg/m <sup>3</sup>
	50 ppm
WEL STEL (OEL STEL)	362 mg/m <sup>3</sup>
	75 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>Iceland - Occupational Exposure Limits</b>	
Local name	4-Hýdroxý-4-metýl-2-pentanón (díasetónalkóhól)
OEL TWA	240 mg/m <sup>3</sup>
	50 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	4-hydroksy-4-metyl-2-pentanon (Diacetonalkohol)

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<b>4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2)</b>	
Grenseverdi (OEL TWA)	120 mg/m <sup>3</sup>
	25 ppm
Regulatory reference	FOR-2023-12-18-2278
<b>North Macedonia - Occupational Exposure Limits</b>	
Local name	4-хидрокси-4-метилпентан-2-он (диацетоналкохол)
OEL TWA	240 mg/m <sup>3</sup>
	50 ppm
Remark	(K) својство на полесно пренесување на супстанците во организмот преку кожата
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	4-Hydroxy-4-méthylpentan-2-one / 4-Hydroxy-4-methylpentan-2-on [Diacetonalkohol]
MAK (OEL TWA)	96 mg/m <sup>3</sup>
	20 ppm
KZGW (OEL STEL)	192 mg/m <sup>3</sup>
	40 ppm
Notation	R / H
Remark	NIOSH
Regulatory reference	www.suva.ch, 01.01.2024
<b>butanone; ethyl methyl ketone (78-93-3)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Butanone
IOEL TWA	600 mg/m <sup>3</sup>
	200 ppm
IOEL STEL	900 mg/m <sup>3</sup>
	300 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Austria - Occupational Exposure Limits</b>	
Local name	Butanon (Ethylmethylketon; Methylethylketon)
MAK (OEL TWA)	295 mg/m <sup>3</sup>
	100 ppm
MAK (OEL STEL)	590 mg/m <sup>3</sup> (4x 30(Miw) min)
	200 ppm (4x 30(Miw) min)
Remark	H
Regulatory reference	BGBl. II Nr. 156/2021
<b>Belgium - Occupational Exposure Limits</b>	
Local name	2-Butanone # 2-Butanon
OEL TWA	600 mg/m <sup>3</sup>

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butanone; ethyl methyl ketone (78-93-3)	
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
Bulgaria - Occupational Exposure Limits	
Local name	Метилетилкетон (бутанон)
OEL TWA	590 mg/m <sup>3</sup>
OEL STEL	885 mg/m <sup>3</sup>
Remark	• (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.)
Croatia - Occupational Exposure Limits	
Local name	Butanon; etil-metil-ke-ton
GVI (OEL TWA)	600 mg/m <sup>3</sup>
	200 ppm
KGVI (OEL STEL)	900 mg/m <sup>3</sup>
	300 ppm
Remark	Direktiva: 2000/39/EZ
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, граничним vrijednostima izloženosti i biološkim граничним vrijednostima (NN 148/2023)
Cyprus - Occupational Exposure Limits	
Local name	Βουτανόνη
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
Regulatory reference	Κανονισμοί του 2007 (Κ.Δ.Π. 295/2007)
Czech Republic - Occupational Exposure Limits	
Local name	2-Butanon (Methylethylketon)
PEL (OEL TWA)	600 mg/m <sup>3</sup>
	200 ppm
NPK-P (OEL C)	900 mg/m <sup>3</sup>
	300 ppm
Remark	I - dráždí sliznice (oči, dýchací cesty) resp. kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Butanon (Ethylmethylketon; MEK; Methylethylketon)
OEL TWA	145 mg/m <sup>3</sup>

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<b>butanone; ethyl methyl ketone (78-93-3)</b>	
	50 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
Remark	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 202 af 21/02/2023
<b>Estonia - Occupational Exposure Limits</b>	
Local name	2-butanoon
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 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	2-Butanoni
HTP (OEL TWA)	60 mg/m <sup>3</sup>
	20 ppm
HTP (OEL STEL)	300 mg/m <sup>3</sup>
	100 ppm
Remark	lho
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Local name	Butanon
AGW (OEL TWA)	600 mg/m <sup>3</sup>
	200 ppm
Peak exposure limitation factor	1(l)
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); H - hautresorptiv; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
<b>Gibraltar - Occupational Exposure Limits</b>	
Local name	Butanone
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)

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<b>butanone; ethyl methyl ketone (78-93-3)</b>	
<b>Greece - Occupational Exposure Limits</b>	
Local name	Μεθυλοαιθυλο-κετόνη
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 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	METIL-ETIL-KETON
AK (OEL TWA)	600 mg/m <sup>3</sup>
CK (OEL STEL)	900 mg/m <sup>3</sup>
Remark	b (Bőrön át is felszívódik), i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát); EU1 (2000/39/EK irányelvben közölt érték); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Methyl ethyl ketone (MEK)
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
Remark	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2021
<b>Ireland - Biological limit values</b>	
Local name	Butan-2-one
BMGV	70 µmol/l Parameter: butan-2- one - Medium: urine - Sampling time: Post shift
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)
<b>Italy - Occupational Exposure Limits</b>	
Local name	Butanone
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 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	2-Butanons (metiletilketons, etilmetilketons)
OEL TWA	200 mg/m <sup>3</sup>



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<b>butanone; ethyl methyl ketone (78-93-3)</b>	
	67 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	Butanonas (metiletilketonas)
IPRV (OEL TWA)	600 mg/m <sup>3</sup>
	200 ppm
TPRV (OEL STEL)	900 mg/m <sup>3</sup>
	300 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
<b>Luxembourg - Occupational Exposure Limits</b>	
Local name	Butanone
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 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	Butanone
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 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	2-Butanon
TGG-8u (OEL TWA)	590 mg/m <sup>3</sup>
	197 ppm
TGG-15min (OEL STEL)	900 mg/m <sup>3</sup>
	300 ppm
Remark	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 2024
<b>Poland - Occupational Exposure Limits</b>	
Local name	Butan-2-on
NDS (OEL TWA)	450 mg/m <sup>3</sup>

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<b>butanone; ethyl methyl ketone (78-93-3)</b>	
NDSch (OEL STEL)	900 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.
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Metiletilcetona (MEK) (2-Butanona)
OEL TWA	200 ppm
OEL STEL	300 ppm
Remark	IBE (Índice biológico de exposição)
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Romania - Occupational Exposure Limits</b>	
Local name	2 Butanonă/Etil metil cetonă/Butanonă
OEL TWA	600 mg/m <sup>3</sup> 200 ppm
OEL STEL	900 mg/m <sup>3</sup> 300 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
<b>Romania - Biological limit values</b>	
Local name	Metiletilcetona
BLV	2 mg/l Indicator biologic: Metiletilcetona - Material biologic: urină - Momentul recoltării: sfârșit de schimb
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 584/2018)
<b>Serbia - Occupational Exposure Limits</b>	
Local name	бутанон; метил-етил-кетон
OEL TWA	600 mg/m <sup>3</sup> 200 ppm
OEL STEL	900 mg/m <sup>3</sup> 300 ppm
Remark	EУ* – напомена да се ради о хемијским материјама за које су утврђене индикативне граничне вредности изложености према Директиви 2000/39/ЕЗ (прва 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	Butanón (etylmetylketón)
NPHV (OEL TWA)	600 mg/m <sup>3</sup> 200 ppm
NPHV (OEL STEL)	900 mg/m <sup>3</sup> 300 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)

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<b>butanone; ethyl methyl ketone (78-93-3)</b>	
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	butanon (etilmetilketon)
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
Remark	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biološka mejna vrednost), EU
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
<b>Spain - Occupational Exposure Limits</b>	
Local name	Metiletilcetona (Butanona)
VLA-ED (OEL TWA)	600 mg/m <sup>3</sup>
	200 ppm
VLA-EC (OEL STEL)	900 mg/m <sup>3</sup>
	300 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	Metiletilcetona (Butanona)
BLV	2 mg/l Parámetro: Metiletilcetona - Medio: Orina - Momento de muestreo: Final de la jornada laboral
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Metyletylketon (MEK)
NGV (OEL TWA)	150 mg/m <sup>3</sup>
	50 ppm
KGV (OEL STEL)	900 mg/m <sup>3</sup>
	300 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Butan-2-one (methyl ethyl ketone)
WEL TWA (OEL TWA)	600 mg/m <sup>3</sup>
	200 ppm
WEL STEL (OEL STEL)	899 mg/m <sup>3</sup>
	300 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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<b>butanone; ethyl methyl ketone (78-93-3)</b>	
<b>United Kingdom - Biological limit values</b>	
Local name	Butan-2-one (methyl ethyl ketone)
BMGV	70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>Iceland - Occupational Exposure Limits</b>	
Local name	Metýletýlketón (bútanón, etýlmetýlketón, MEK)
OEL TWA	145 mg/m <sup>3</sup> 50 ppm
OEL STEL	900 mg/m <sup>3</sup> 300 ppm
Remark	H (efnið getur auðveldlega borist inn í líkamann gegnum húð)
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
<b>Norway - Occupational Exposure Limits</b>	
Local name	Butanon (Metyletylketon)
Grenseverdi (OEL TWA)	220 mg/m <sup>3</sup> 75 ppm
Remark	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	бутанон (Етилметилкетон)
OEL TWA	600 mg/m <sup>3</sup> 200 ppm
KTV	1.5
Short time value [mg/m <sup>3</sup> ]	900 mg/m <sup>3</sup>
Short time value [ppm]	300 ppm
Remark	(KTV) 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; (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	2-Butanone / 2-Butanon [Ethylmethylketon, Methyl ethylketon (MEK)]

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<b>butanone; ethyl methyl ketone (78-93-3)</b>	
MAK (OEL TWA)	590 mg/m <sup>3</sup>
	200 ppm
KZGW (OEL STEL)	590 mg/m <sup>3</sup>
	200 ppm
Notation	R, SS <sub>C</sub> , B / H, SS <sub>C</sub> , B
Remark	INRS, NIOSH, OSHA
Regulatory reference	www.suva.ch, 01.01.2024
<b>4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	4-Methylpentan-2-one
IOEL TWA	83 mg/m <sup>3</sup>
	20 ppm
IOEL STEL	208 mg/m <sup>3</sup>
	50 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Austria - Occupational Exposure Limits</b>	
Local name	4-Methylpentanon-2 (Methylisobutylketon)
MAK (OEL TWA)	83 mg/m <sup>3</sup>
	20 ppm
MAK (OEL STEL)	208 mg/m <sup>3</sup> (4x 15(Miw) min)
	50 ppm (4x 15(Miw) min)
Remark	H
Regulatory reference	BGBl. II Nr. 156/2021
<b>Belgium - Occupational Exposure Limits</b>	
Local name	4-Méthyl-2-pentanone # 4-Methyl-2-pentanon
OEL TWA	83 mg/m <sup>3</sup>
	20 ppm
OEL STEL	208 mg/m <sup>3</sup>
	50 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
<b>Bulgaria - Occupational Exposure Limits</b>	
Local name	Метилизобутилкетон (4-метил-пентан-2-он)
OEL TWA	50 mg/m <sup>3</sup>
OEL STEL	200 mg/m <sup>3</sup>
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.)

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4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)	
<b>Croatia - Occupational Exposure Limits</b>	
Local name	4-Metil-pentan-2-on; izobutil-metil-ke-ton
GVI (OEL TWA)	83 mg/m <sup>3</sup>
	20 ppm
KGVI (OEL STEL)	208 mg/m <sup>3</sup>
	50 ppm
Remark	Direktiva: 2000/39/EZ
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 148/2023)
<b>Croatia - Biological limit values</b>	
Local name	4-Metil-pentan-2-on
BLV	3.5 mg/l Karakteristični pokazatelj: 4-metil-pentan-2-on - Biološki uzorak: mokraća - Vrijeme uzorkovanja: nije kritično 35 nmol/l Karakteristični pokazatelj: 4-metil-pentan-2-on - Biološki uzorak: mokraća - Vrijeme uzorkovanja: nije kritično
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 91/2018)
<b>Cyprus - Occupational Exposure Limits</b>	
Local name	4-Μεθυλοπενταν-2-όνη
OEL TWA	83 mg/m <sup>3</sup>
	20 ppm
OEL STEL	208 mg/m <sup>3</sup>
	50 ppm
Regulatory reference	Κανονισμοί του 2007 (Κ.Δ.Π. 295/2007)
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	4-Methyl-2-pentanon (iso-Butylmethylketon)
PEL (OEL TWA)	83 mg/m <sup>3</sup>
	20 ppm
NPK-P (OEL C)	208 mg/m <sup>3</sup>
	50 ppm
Remark	D - při expozici se významně uplatňuje pronikání faktoru kůži, I - dráždí sliznice (oči, dýchací cesty) resp. kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Methylisobutylketon (Hexon; 4-Methyl-2-pentanon; MIBK)
OEL TWA	83 mg/m <sup>3</sup>
	20 ppm
OEL STEL	208 mg/m <sup>3</sup>
	50 ppm
Remark	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)

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<b>4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)</b>	
Regulatory reference	BEK nr 202 af 21/02/2023
<b>Estonia - Occupational Exposure Limits</b>	
Local name	4-metüül-2-pentanoon (metüülisobutüülketoon)
OEL TWA	83 mg/m <sup>3</sup>
	20 ppm
OEL STEL	208 mg/m <sup>3</sup>
	50 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	4-Metyyli-2-pentanoni
HTP (OEL TWA)	80 mg/m <sup>3</sup>
	20 ppm
HTP (OEL STEL)	210 mg/m <sup>3</sup>
	50 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Local name	4-Methylpentan-2-on
AGW (OEL TWA)	83 mg/m <sup>3</sup>
	20 ppm
Peak exposure limitation factor	2(l)
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); H - hautresorptiv; 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	4-Methylpentan-2-on
Biological limit value	0.7 mg/l Parameter: 4-Methylpentan-2-on - Untersuchungsmaterial: U = Urin - Probenahmezeitpunkt: b) Expositionsende, bzw. Schichtende - Festlegung/Begründung: 05/2015 DFG
Regulatory reference	TRGS 903
<b>Gibraltar - Occupational Exposure Limits</b>	
Local name	4-Methylpentan-2-one
OEL TWA	83 mg/m <sup>3</sup>
	20 ppm
OEL STEL	208 mg/m <sup>3</sup>
	50 ppm
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)

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4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)	
<b>Greece - Occupational Exposure Limits</b>	
Local name	Μεθυλο-ισοβουτυλο-κετόνη
OEL TWA	410 mg/m <sup>3</sup>
	100 ppm
OEL STEL	410 mg/m <sup>3</sup>
	100 ppm
Remark	Η ένδειξη «δέρμα» στις οριακές τιμές επαγγελματικής έκθεσης επισημαίνει το ενδεχόμενο σημαντικής διείσδυσης μέσω του δέρματος.
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	4-METILPENTÁN-2-ON (Izobutil-metil-ke-ton)
AK (OEL TWA)	83 mg/m <sup>3</sup>
CK (OEL STEL)	208 mg/m <sup>3</sup>
Remark	EU1 (2000/39/EK irányelvben közölt érték); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Methyl isobutyl ketone (MIBK) [Hexone, Isobutyl methyl keton, 4-Methylpentan-2-one)
OEL TWA	83 mg/m <sup>3</sup>
	20 ppm
OEL STEL	208 mg/m <sup>3</sup>
	50 ppm
Remark	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2021
<b>Ireland - Biological limit values</b>	
Local name	Methyl isobutyl ketone (MIBK)/ 4-methylpentan-2-one
BMGV	1 mg/l Parameter: MIBK - Medium: urine - Sampling time: End of shift
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)
<b>Italy - Occupational Exposure Limits</b>	
Local name	Metilpentan-2-one, 4-
OEL TWA	83 mg/m <sup>3</sup>
	20 ppm
OEL STEL	208 mg/m <sup>3</sup>
	50 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	4-Metil-2-pentanons, (izobutilmetilketons, metilizobutilketons, izopropilacetons)



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<b>4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)</b>	
OEL TWA	83 mg/m <sup>3</sup>
	20 ppm
OEL STEL	208 mg/m <sup>3</sup>
	50 ppm
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	Metilizobutilketonas (MIBK) (4-metilpentanonas-2)
IPRV (OEL TWA)	83 mg/m <sup>3</sup>
	20 ppm
TPRV (OEL STEL)	208 mg/m <sup>3</sup>
	50 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
<b>Luxembourg - Occupational Exposure Limits</b>	
Local name	4-Méthylpentane-2-one
OEL TWA	83 mg/m <sup>3</sup>
	20 ppm
OEL STEL	208 mg/m <sup>3</sup>
	50 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	4-Methylpentan-2-one
OEL TWA	83 mg/m <sup>3</sup>
	20 ppm
OEL STEL	208 mg/m <sup>3</sup>
	50 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	4-Methyl-2-pentanon
TGG-8u (OEL TWA)	104 mg/m <sup>3</sup>
	25 ppm
TGG-15min (OEL STEL)	208 mg/m <sup>3</sup>
	50 ppm
Regulatory reference	Arbeidsomstandighedenregeling 2024
<b>Poland - Occupational Exposure Limits</b>	
Local name	4-Metylopentan-2-on (metyloizobutyloketon,heksjon)
NDS (OEL TWA)	83 mg/m <sup>3</sup>
NDSCh (OEL STEL)	200 mg/m <sup>3</sup>
Regulatory reference	Dz. U. 2018 poz. 1286 wraz z późn. zm.

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4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)	
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Metilisobutilcetona (MIBK)
OEL TWA	20 ppm
OEL STEL	75 ppm
Remark	A3 (Agente carcinogénico confirmado nos animais de laboratorio con relevância desconhecida no Homem); IBE (Índice biológico de exposição)
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Portugal - Biological Exposure Indices</b>	
Local name	Metilisobutilcetona (MIBK)
BEI	1 mg/l Parâmetro: Metilisobutilcetona (MIBK) - Meio: urina - Momento da amostragem: Fim do turno
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Romania - Occupational Exposure Limits</b>	
Local name	4-metilpentan-2-onă
OEL TWA	83 mg/m <sup>3</sup> 20 ppm
OEL STEL	208 mg/m <sup>3</sup> 50 ppm
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
<b>Serbia - Occupational Exposure Limits</b>	
Local name	4-метилпентан-2-он; изобутил-метил-кетон
OEL TWA	83 mg/m <sup>3</sup> 20 ppm
OEL STEL	208 mg/m <sup>3</sup> 50 ppm
Remark	EУ* – напомена да се ради о хемијским материјама за које су утврђене индикативне граничне вредности изложености према Директиви 2000/39/ЕЗ (прва 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	4-Metylpentán-2-ón (izobutylmetylketón, hexón)
NPHV (OEL TWA)	83 mg/m <sup>3</sup> 20 ppm
NPHV (OEL STEL)	166 mg/m <sup>3</sup> 40 ppm
Remark	K - znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
<b>Slovakia - Biological limit values</b>	
Local name	Hexón (izobutyl-metyl-ketón)
BLV	3.5 mg/l Zisťovaný faktor: Hexón - Vyšetřovaný materiál: moč - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny

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4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)	
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (Zmena: 471/2011 Z.z.)
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	4-metilpentan-2-on (metilizobutylketon)
OEL TWA	83 mg/m <sup>3</sup> 20 ppm
OEL STEL	208 mg/m <sup>3</sup> 50 ppm
Remark	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in BAT vrednosti), 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	4-metilpentan-2-on (metilizobutyl keton)
BLV	0.7 mg/l Parameter: 4-metilpentan-2-on - Biološki vzorec: urin - Čas vzorčenja: ob koncu delovne izmene
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
<b>Spain - Occupational Exposure Limits</b>	
Local name	Metilisobutilcetona (Hexona)
VLA-ED (OEL TWA)	83 mg/m <sup>3</sup> 20 ppm
VLA-EC (OEL STEL)	208 mg/m <sup>3</sup> 50 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	Metilisobutilcetona (Hexona)
BLV	1 mg/l Parámetro: Metilisobutilcetona - Medio: Orina - Momento de muestreo: Final de la jornada laboral
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Metylisobutylketon (MIBK)
NGV (OEL TWA)	83 mg/m <sup>3</sup> 20 ppm
KGV (OEL STEL)	200 mg/m <sup>3</sup> 50 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	4-Methylpentan-2-one
WEL TWA (OEL TWA)	208 mg/m <sup>3</sup> 50 ppm

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<b>4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)</b>	
WEL STEL (OEL STEL)	416 mg/m <sup>3</sup> 100 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>United Kingdom - Biological limit values</b>	
Local name	4-methylpentan-2-one
BMGV	20 µmol/l Parameter: 4-methylpentan-2-one - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>Iceland - Occupational Exposure Limits</b>	
Local name	Metýlísóbútylketón (hexón, 4-metýl-2-pentanón, MIBK)
OEL TWA	83 mg/m <sup>3</sup> 20 ppm
OEL STEL	208 mg/m <sup>3</sup> 50 ppm
Remark	H (efnið getur auðveldlega borist inn í líkamann gegnum húð)
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
<b>Norway - Occupational Exposure Limits</b>	
Local name	4-metylpentan-2-on (Metylisobutylketon)
Grenseverdi (OEL TWA)	83 mg/m <sup>3</sup> 20 ppm
Korttidsverdi (OEL STEL)	208 mg/m <sup>3</sup> 50 ppm
Remark	H: Kjemikalier som kan tas opp gjennom huden; 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	4-метилпентан-2-он (метилизобутилкетон)
OEL TWA	83 mg/m <sup>3</sup> 20 ppm
KTV	2.5
Short time value [mg/m <sup>3</sup> ]	207.5 mg/m <sup>3</sup>
Short time value [ppm]	50 ppm

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<b>4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)</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; (БАТ) 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	4-Méthylpentan-2-one / 4-Methylpentan-2-on [Hexon, Methylisobutylketon (MIBK)]
MAK (OEL TWA)	82 mg/m <sup>3</sup> 20 ppm
KZGW (OEL STEL)	164 mg/m <sup>3</sup> 40 ppm
Notation	R, SS <sub>c</sub> , B / H, SS <sub>c</sub> , B
Remark	INRS, NIOSH, DFG
Regulatory reference	www.suva.ch, 01.01.2024
<b>Switzerland - BAT</b>	
Local name	4-Méthylpentan-2-one / 4-Methylpentan-2-on
BAT	0.7 mg/l (Paramètre biologique: 4-Méthylpentane-2-one; Substrat d'examen: Urine; Moment du prélèvement: Fin de l'exposition, de la période de travail.) / (Biologischer Parameter: 4-Methylpentan-2-on; Untersuchungsmaterial: Urin; Probennahmezeitpunkt: Expositionsende, bzw. Schichtende.)
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>butan-1-ol; n-butanol (71-36-3)</b>	
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Butan-1-ol [n-Butyl alcohol]
OEL TWA	20 ppm
Regulatory reference	Chemical Agents Code of Practice 2021
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Butan-1-ol
WEL STEL (OEL STEL)	154 mg/m <sup>3</sup> 50 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Isopropyl alcohol [Propan-2-ol]
OEL TWA	200 ppm
OEL STEL	400 ppm
Remark	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	2-Propanol
BMGV	40 mg/l Parameter: acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B (Background), Ns (Non-specific)
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Propan-2-ol
WEL TWA (OEL TWA)	999 mg/m <sup>3</sup>
	400 ppm
WEL STEL (OEL STEL)	1250 mg/m <sup>3</sup>
	500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>XYLENE (1330-20-7)</b>	
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	XYLENE
WEL TWA (OEL TWA)	220 mg/m <sup>3</sup>
	50 ppm
WEL STEL (OEL STEL)	441 mg/m <sup>3</sup>
	100 ppm

### 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:

Gloves.

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### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

### 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	: Yellow.
Odour	: Aromatic hydrocarbon.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: ≤ 128 °C
Flammability	: Not applicable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: < 18 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: ≤ 7
Viscosity, kinematic	: Not available
Solubility	: Water: Insoluble Acetone: Soluble Organic solvent: Soluble
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 0.875°C
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

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### 9.2. Other information

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

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable liquid and vapour.

### 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

### 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) : Inhalation:vapour: Harmful if inhaled.

Rustins Metal Lacquer	
ATE CLP (vapours)	17.95 mg/l/4h
4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2)	
LD50 oral rat	3002 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2738 - 3290
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LD50 oral rat	5840 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
Skin corrosion/irritation	: Causes skin irritation. pH: ≤ 7
XYLENE (1330-20-7)	
pH	7
Serious eye damage/irritation	: Causes serious eye irritation. pH: ≤ 7
XYLENE (1330-20-7)	
pH	7
Respiratory or skin sensitisation	: Not classified



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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer (if swallowed).
Reproductive toxicity	: Not classified

### 4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2)

NOAEL (animal/male, F1)	≈ 200 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study)
NOAEL (animal/female, F1)	≈ 600 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study)

STOT-single exposure : May cause drowsiness or dizziness.

### butanone; ethyl methyl ketone (78-93-3)

STOT-single exposure : May cause drowsiness or dizziness.

### 4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)

STOT-single exposure : May cause drowsiness or dizziness.

### butan-1-ol; n-butanol (71-36-3)

STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation.

### propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

### 4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2)

NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: not determinable due to absence of adverse toxic effects
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### 4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)

LOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, vapour, 90 days)	4106 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

Aspiration hazard : Not classified

## 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

### 4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2)

LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	> 1000 mg/l Test organisms (species): Daphnia magna

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<b>4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2)</b>	
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	> 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

<b>butanone; ethyl methyl ketone (78-93-3)</b>	
LC50 - Fish [1]	2993 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	308 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1972 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	2029 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

<b>4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)</b>	
LC50 - Fish [1]	> 179 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 200 mg/l Test organisms (species): Daphnia magna

### 12.2. Persistence and degradability

<b>Rustins Metal Lacquer</b>	
Persistence and degradability	Not rapidly degradable

<b>4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2)</b>	
Persistence and degradability	Not rapidly degradable

<b>butanone; ethyl methyl ketone (78-93-3)</b>	
Persistence and degradability	Not rapidly degradable

<b>4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)</b>	
Persistence and degradability	Not rapidly degradable

<b>butan-1-ol; n-butanol (71-36-3)</b>	
Persistence and degradability	Not rapidly degradable

<b>propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)</b>	
Persistence and degradability	Not rapidly degradable

<b>XYLENE (1330-20-7)</b>	
Persistence and degradability	Not rapidly degradable

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

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### 12.7. Other adverse effects

No additional information available






## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Additional information : Flammable vapours may accumulate in the container.

## 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 1263	UN 1263	UN 1263	UN 1263	UN 1263
<b>14.2. UN proper shipping name</b>				
PAINT / PAINT RELATED MATERIAL	PAINT	Paint	PAINT	PAINT
<b>Transport document description</b>				
UN 1263 PAINT / PAINT RELATED MATERIAL, 3, II, (D/E)	UN 1263 PAINT, 3, II	UN 1263 Paint, 3, II	UN 1263 PAINT, 3, II	UN 1263 PAINT, 3, II
<b>14.3. Transport hazard class(es)</b>				
3	3	3	3	3
				
<b>14.4. Packing group</b>				
II	II	II	II	II
<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) : F1  
Special provisions (ADR) : 163, 367, 640C, 650  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E2  
Packing instructions (ADR) : P001  
Special packing provisions (ADR) : PP1  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T4  
Portable tank and bulk container special provisions (ADR) : TP1, TP8, TP28  
Tank code (ADR) : L1.5BN

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Vehicle for tank carriage : FL  
Transport category (ADR) : 2  
Special provisions for carriage - Operation (ADR) : S2, S20  
Hazard identification number (Kemler No.) : 33  
Orange plates :



Tunnel restriction code (ADR) : D/E  
EAC code : •3YE

### Transport by sea

Special provisions (IMDG) : 163, 367  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
Special packing provisions (IMDG) : PP1  
IBC packing instructions (IMDG) : IBC02  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1, TP8, TP28  
EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-E  
Stowage category (IMDG) : B  
Properties and observations (IMDG) : Miscibility with water depends upon the composition.

### Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3, A72, A192  
ERG code (IATA) : 3L

### Inland waterway transport

Classification code (ADN) : F1  
Special provisions (ADN) : 163, 367, 640C, 650  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E2  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 1

### Rail transport

Classification code (RID) : F1  
Special provisions (RID) : 163, 367, 640C, 650  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001  
Special packing provisions (RID) : PP1  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T4  
Portable tank and bulk container special provisions (RID) : TP1, TP8, TP28  
Tank codes for RID tanks (RID) : L1.5BN  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE7  
Hazard identification number (RID) : 33

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

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

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 1005/2009 on substances that deplete the ozone layer)

##### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

##### 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 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)

Name	CN designation	CAS-No.	CN code	Category, Subcategory	Threshold	Annex
	Butanone	78-93-3	2914 12 00	Category 3		Annex I

#### 15.1.2. National regulations

##### France

Occupational diseases	
Code	Description
RG 4 BIS	Gastrointestinal disorders caused by benzene, toluene, xylenes and all products containing them
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 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).

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

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### Netherlands

ABM category	: A(4) - low hazard for aquatic organisms, may have longterm hazardous effects in aquatic environment
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: XYLENE is listed

### Denmark

Class for fire hazard	: Class I-1
Store unit	: 1 liter
Classification remarks	: F <Flam. Liq. 2>; 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 The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out  
HSNO Approval Code / Group Standard:  
Surface Coatings and Colourants (Flammable) Group Standard 2017  
HSNO Approval Number: HSR002662.

## SECTION 16: Other information

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration

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Abbreviations and acronyms:	
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
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
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

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

Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

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