

Paintstik ® Original B Jumbo White, Hex White, Fine White, Hex Yellow, 16 Black, 16 Blue, 16 Orange, 16 White, 16 Yellow, Fine Yellow, Aluminum, Black, Blue, Green, Gray, Orange, Pink, Purple, Red, Silver, White, Yellow, Fluorescent Yellow, Fluorescent Red, Fluorescent Green, Fluorescent Blue, Fluorescent Orange, Fluorescent Pink

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 10/13/2020 Revision date: 6/10/2021 Supersedes: 2/24/2021 Version: 3.0

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

1.1. Product identifier

Product form	: Mixture
Trade name	: Paintstik ® Original B Jumbo White, Hex White, Fine White, Hex Yellow, 16 Black, 16 Blue, 16 Orange, 16 White, 16 Yellow, Fine Yellow, Aluminum, Black, Blue, Green, Gray, Orange, Pink, Purple, Red, Silver, White, Yellow, Fluorescent Yellow, Fluorescent Red, Fluorescent Green, Fluorescent Blue, Fluorescent Orange, Fluorescent Pink
Other means of identification	: UFI Jumbo White: KGXP-DW4X-VU1V-YSAT Hex White, Fine White: TK15-4X2Y-6U1A-MR08 Hex Yellow: CPXP-DWHR-GU1V-9FGX 16 Black: UHSS-5WMU-UU14-0PMX 16 Blue: HRRS-MWE9-2U1P-1MDC 16 Orange: XFFV-3WDA-QU16-0FJ8 16 White: 1AXP-CWS5-8U1W-N35P 16 Yellow: 7UPS-GW7J-AU1T-G3JX Fine Yellow: N3QS-0W9R-8U19-G4A4 Aluminum: NTWP-AWMS-EU1X-P1P9 Black: RF25-5XYX-8U19-74TW Blue: R825-5XM4-NU19-WFNS Green: N325-5X7C-1U19-KSGN Gray: H5SS-4WV8-MU15-CA9P Orange: 4M25-6XCQ-VU18-JU01 Pink: FQQS-JW4H-DU1R-3HDK Purple: QPFV-MWFH-MU1P-YG9F Red: PX15-4XUJ-EU1A-83AH Silver: FYQS-2W6Q-AU17-3J4S White: WR15-4XFR-TU1A-XE5D Yellow: XKPS-YW5C-EU1A-G2TR Fluorescent Yellow: X6T6-Y50G-SSKQ-NWS3 Fluorescent Red: SGXE-07R9-WV1E-YCQY Fluorescent Green: H6YE-278G-CV1D-83DG Fluorescent Blue: TTT6-G5U8-XSK6-99UJ Fluorescent Orange: 3JT6-Y5S3-OSKQ-993C Fluorescent Pink: J09M-T1PF-U607-JUVU

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

1.2.1. Relevant identified uses

Main use category	: Professional use
Use of the substance/mixture	: Marking.

1.2.2. Uses advised against

Restrictions on use	: Any use not specified
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1.3. Details of the supplier of the safety data sheet

LA-CO Industries Europe
Parc Industriel de la Plaine de l'Ain - Allée des Combes
01150 Blyes
France
T +33 474462323 - F +33 (0)4 74 46 23 29



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info-europe@laco.com - www.markal-city.com

1.4. Emergency telephone number

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887;
全国应急中心 0532 8388 9090

EU Member State	Officieel adviesorgaan	Adres	Noodnummer
AUSTRIA	Vergiftungsinformationszentrale (Poisons Information Centre)	Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien	+43 1 406 43 43
BELARUS	The Belarus Republican Poisons Centre	Kizhevatova str. 58 220115 Minsk	+375 (0)17 201 9158
BELGIUM	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245
BULGARIA	Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Tottleben Boulevard 1606 SOFIA	+359 2 9154 409
CROATIA	Poisons Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojišti 1 120 00 Praha 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Gifftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 København NV	+45 82 12 12 12 +45 35 31 55 55
ESTONIA	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	+372 626 93 90
FINLAND	Myrkytystietokeskus	P.O.B 340 (Haartmaninkatu 4) HUS SF - 00029 Helsinki	+358 9 471 977
FRANCE	ORFILA		+33 1 45 42 59 59
GERMANY	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
GERMANY	Informations und Beratungszentrum für Vergiftungsfälle	Kirrberger Straße, Gebäude 9 D-66421 Homburg/Saar	+49 6841 19240
GERMANY	Beratungstelle bei Vergiftungen, Klinische Toxikologie und Beratungsstelle bei Vergiftungen	Langenbeckstrasse 1 55131 Mainz	+49 6131 19240
GREECE	Poisons Information Centre	11527 Athens	+30 10 779 3777
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2	+36 80 20 11 99
ICELAND	Eitrunarmiðstöðin	Eitrunarmiðstöðin 108 Reykjavik	+354 543 22 22
IRELAND	National Poisons Information Centre	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166
LATVIA	Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs	2 Hipocrate Street LV 1038 Riga	+371 67 04 24 73
LITHUANIA	Apsinuodijimų kontrolės ir informacijos biuras	Siltnamiu 29 2043 Vilnius	+370 5 236 20 52/+370 687 53 378
MALTA	Medicines & Poisons Info Office	Mater Dei Hospital, Msida MSD 2090 Malta	25450000
NETHERLANDS	Nationaal Vergiftigingen Informatie Centrum National Institute for Public Health and the Environment, NB this service is only available to health professionals	Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht	+31 30 274 88 88
PORTUGAL	Centro de Informação Antivenenos Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284

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EU Member State	Officieel adviesorgaan	Adres	Noodnummer
ROMANIA	Biroul pentru Regulamentul Sanitar International si Informare Toxicologica	Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 50463 Bucuresti	+40 21 318 36 06
SLOVAKIA	Národné toxikologické informačné centrum University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	+46 8 33 12 31 (International) 112 (National)
SWITZERLAND	Centre Suisse d'Information Toxicologique	Freiestrasse 16 Postfach CH-8028 Zurich	+41 44 251 51 51 (International) 145 (National)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin sensitisation, Category 1

H317

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

Adverse physicochemical, human health and environmental effects

No data available

2.2. Label elements

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

Hazard pictograms (CLP: Classification, Labelling, Packaging.) :



GHS07

Signal word (CLP)

: Warning

Contains

: rosin

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.

Precautionary statements (CLP)

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements

: (Jumbo White, Hex White, Hex Yellow, 16 Blue, 16 Orange, 16 White, 16 Yellow, Fine Yellow, Blue, Green, Gray, Orange, Pink, Purple, White, Yellow).
EUH212 - Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

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

: 1.75% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
1.75% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
1.75% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Unknown hazards to the aquatic environment (CLP)

: Contains 1.82 % of components with unknown hazards to the aquatic environment

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2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

Component	
Cobalt Hydroxide (21041-93-0)	PBT: not relevant – no registration required vPvB: not relevant – no registration required
Toluene (108-88-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, 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 is 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

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]
Limestone	CAS-No.: 1317-65-3 EC-No.: 215-279-6	0 - 60	Not classified
Calcium carbonate	CAS-No.: 471-34-1 EC-No.: 207-439-9	30 - 60	Not classified
aluminium powder (pyrophoric) (Note T)	CAS-No.: 7429-90-5 EC-No.: 231-072-3 EC Index-No.: 013-001-00-6	0 - 30	Pyr. Sol. 1, H250 Water-react. 2, H261
Paraffin waxes	CAS-No.: 8002-74-2 EC-No.: 232-315-6	0 - 20	Not classified
Titanium dioxide	CAS-No.: 13463-67-7 EC-No.: 236-675-5	0 - 15	Carc. 2, H351
rosin	CAS-No.: 8050-09-7 EC-No.: 232-475-7 EC Index-No.: 650-015-00-7	1 - 10	Skin Sens. 1, H317
Carbon black	CAS-No.: 1333-86-4 EC-No.: 215-609-9	0 - 5	Not classified
zinc sulphide	CAS-No.: 1314-98-3 EC-No.: 215-251-3	0 - 2	Not classified
Silicon dioxide (amorphous)	CAS-No.: 112926-00-8 EC-No.: 231-545-4	0 - 2	Not classified
Silicon dioxide (cristobalite)	CAS-No.: 14808-60-7 EC-No.: 238-878-4	0 - 2	Not classified
Aluminum hydroxide	CAS-No.: 21645-51-2	0 - 2	Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
	EC-No.: 244-492-7		
Stoddard solvent (benzene < 0.1%) (Note P)	CAS-No.: 8052-41-3 EC-No.: 232-489-3 EC Index-No.: 649-345-00-4	0.1 - 1	Flam. Liq. 3, H226 STOT RE 1, H372 Asp. Tox. 1, H304
4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%)	CAS-No.: 2786-76-7 EC-No.: 220-509-3	0 - <1	Skin Sens. 1, H317
Aluminum oxide	CAS-No.: 1344-28-1 EC-No.: 215-691-6	0 - 1	Not classified
Distillates (petroleum), hydrotreated light	CAS-No.: 64742-47-8 EC-No.: 265-149-8 EC Index-No.: 649-422-00-2	<0.1	Asp. Tox. 1, H304
Cobalt Hydroxide	CAS-No.: 21041-93-0 EC-No.: 244-166-4	<0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Iron oxide red	CAS-No.: 1309-37-1 EC-No.: 215-168-2	<0.1	Aquatic Chronic 2, H411
butanone oxime	CAS-No.: 96-29-7 EC-No.: 202-496-6 EC Index-No.: 616-014-00-0	0 - <0.01	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1B, H350 STOT SE 1, H370 STOT SE 3, H336 STOT RE 2, H373
cobalt bis(2-ethylhexanoate)	CAS-No.: 136-52-7 EC-No.: 205-250-6	<0.01	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Formaldehyde (Note B)(Note D)	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5	<0.01	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350
Hexachlorobenzene	CAS-No.: 118-74-1 EC-No.: 204-273-9	<0.001	Carc. 1B, H350 STOT RE 1, H372

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
	EC Index-No.: 602-065-00-6		Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,6-di-tert-butyl-4-methylphenol	CAS-No.: 128-37-0 EC-No.: 204-881-4	<0.001	Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ethylbenzene	CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4	<0.001	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304
Toluene	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3	<0.001	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
cumene (Note C)	CAS-No.: 98-82-8 EC-No.: 202-704-5 EC Index-No.: 601-024-00-X	<0.001	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%)	CAS-No.: 2786-76-7 EC-No.: 220-509-3	(10 ≤C ≤ 100) Skin Sens. 1, H317
cobalt bis(2-ethylhexanoate)	CAS-No.: 136-52-7 EC-No.: 205-250-6	(0,01 ≤C < 0,1) EUH208
Formaldehyde	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5	(0,2 ≤C < 100) Skin Sens. 1, H317 (5 ≤C < 100) STOT SE 3, H335 (5 ≤C < 25) Eye Irrit. 2, H319 (5 ≤C < 25) Skin Irrit. 2, H315 (25 ≤C < 100) Skin Corr. 1B, H314

Note B : Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

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

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

Note P: The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w

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benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

Note T : This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.

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 : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it before reuse.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water.
- First-aid measures after ingestion : Get medical advice/attention if you feel unwell.

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

- Symptoms/effects after skin contact : May cause an allergic skin reaction.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

- Fire hazard : No particular fire or explosion hazard.

5.3. Advice for firefighters

- Firefighting instructions : Keep upwind.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid creating or spreading dust. Avoid contact with skin, eyes and clothing.

6.1.1. For non-emergency personnel

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

6.1.2. For emergency responders

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

6.2. Environmental precautions

Do not discharge into drains or the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Avoid generating dust. Sweep or shovel into suitable containers.
- Methods for cleaning up : On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

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Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid creating or spreading dust. Do not breathe dust. Avoid contact with skin, eyes and clothing.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.

Incompatible products : Strong oxidizers.

Prohibitions on mixed storage : Incompatible materials.

Storage area : Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

Marking.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Limestone (1317-65-3)	
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	10 mg/m ³
Remark (BE)	(carbonate de)
Czech Republic - Occupational Exposure Limits	
Local name	Vápenec, mramor
Expoziční limity (PEL) (mg/m ³)	10 mg/m ³
Remark	Prachy s převážně nespecifickým účinkem.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Hungary - Occupational Exposure Limits	
Local name	KALCIUM-KARBONÁT
AK-érték	10 mg/m ³
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
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	10 mg/m ³
Notes	inhalable aerosol
Switzerland - Occupational Exposure Limits	

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Limestone (1317-65-3)	
VME [mg/m ³]	3 mg/m ³
Remark	(respirable aerosol)
Aluminum oxide (1344-28-1)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	10 mg/m ³ (gemessen als einatembarer Aerosolanteil) 5 mg/m ³ (alveolengängiger Anteil)
MAK Short time value [mg/m ³]	20 mg/m ³ (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 mg/m ³ (alveolengängiger Anteil) max. 2x60 min./Schicht
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	10 mg/m ³
Remark (BE)	(oxyde d') (en Al)
Denmark - Occupational Exposure Limits	
Local name	Aluminiumoxid
Grænseværdi (8 timer) (mg/m ³)	5 mg/m ³ beregnet som Al, total 2 mg/m ³ beregnet som Al, respirabel
Grænseværdi (STEL) (mg/m ³)	10 mg/m ³ (total) 4 mg/m ³ (respirabel)
Regulatory reference	BEK nr 290 af 13/02/2021
France - Occupational Exposure Limits	
Local name	Aluminium (Trioxyde de di-)
VME [mg/m ³]	10 mg/m ³
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	3 mg/m ³
Remark	(gemessen als alveolengängiger Staubanteil)
Hungary - Occupational Exposure Limits	
Local name	ALUMÍNIUM OXID (Al-ra számítva)
AK-érték	5 mg/m ³ 2 mg/m ³ respirábilis frakció
Remark	N (Iritáló 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	
OEL (8 hours ref) (mg/m ³)	10 mg/m ³ (total inhalable dust) 4 mg/m ³ (respirable dust)

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Aluminum oxide (1344-28-1)	
Latvia - Occupational Exposure Limits	
Local name	Alumīnija oksīds
OEL TWA	6 mg/m ³ dezintegrācijas aerosola veidā 4 mg/m ³ maisījumā ar niķeli (līdz 15%), (elektrokorunds)
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	2 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Tritlenek glinu
NDS (mg/m ³)	2.5 mg/m ³ w przeliczeniu na Al: frakcja wdychalna 1.2 mg/m ³ w przeliczeniu na Al: frakcja respirabilna
Remark	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286
Slovakia - Occupational Exposure Limits	
Local name	Oxid hlinitý
NPHV (priemerná) (mg/m ³)	4 mg/m ³ inhalovateľná frakcia – prach 1.5 mg/m ³ respirabilná frakcia – prach
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Spain - Occupational Exposure Limits	
Local name	Óxido de aluminio (Corindón)
VLA-ED (mg/m ³)	10 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ (inhalable aerosol) 2 mg/m ³ (respirable aerosol)
Norway - Occupational Exposure Limits	
Local name	Aluminiumoksid
Grenseverdier (AN) (mg/m ³)	10 mg/m ³
Remark	1) Grenseverdien er fastsatt lik verdien for sjenerende støv.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³

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Aluminum oxide (1344-28-1)	
Remark	(respirable aerosol)
Aluminum hydroxide (21645-51-2)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA) [ppm]	10 ppm (gemessen als einatembarer Aerosolanteil) 5 ppm (alveolengängiger Anteil)
MAK Short time value [ppm]	20 ppm (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 ppm (alveolengängiger Anteil) max. 2x60 min./Schicht
Latvia - Occupational Exposure Limits	
Local name	Alumīnija hidroksīds
OEL TWA	6 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	6 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Wodorotlenek glinu
NDS (mg/m ³)	2.5 mg/m ³ w przeliczeniu na Al: frakcja wdychalna 1.2 mg/m ³ w przeliczeniu na Al: frakcja respirabilna
Remark	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286
Slovakia - Occupational Exposure Limits	
Local name	Hydroxid hlinitý
NPHV (priemerná) (mg/m ³)	4 mg/m ³ inhalovateľná frakcia – prach 1.5 mg/m ³ respirabilná frakcia – prach
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(alveolengängige Fraktion)
rosin (8050-09-7)	
Czech Republic - Occupational Exposure Limits	
Local name	Kalafuna - prach, dým
Expoziční limity (PEL) (mg/m ³)	1 mg/m ³
Ireland - Occupational Exposure Limits	

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rosin (8050-09-7)	
OEL (8 hours ref) (mg/m ³)	0.05 mg/m ³
OEL (15 min ref) (mg/m ³)	0.15 mg/m ³
Latvia - Occupational Exposure Limits	
Local name	Kolofonijs
OEL TWA	4 mg/m ³
Spain - Occupational Exposure Limits	
Local name	Resina núcleo de soldadura (Colofonia)
Notes	m (Los productos de descomposición térmica en el ambiente de la resina núcleo de soldadura, colo-fonia, tienen un marcado carácter sensibilizante, lo que aconseja reducir la exposición laboral a los mismos lo máximo posible), Sen (Sensibilizante. Véase Apartado 6).
Cobalt Hydroxide (21041-93-0)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	0.1 mg/m ³ (einatembare Fraktion), (III A2,H,Sah)
MAK Short time value [mg/m ³]	0.4 mg/m ³ (einatembare Fraktion) max. 4x15 min./Schicht, (III A2,H,Sah)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	0.02 mg/m ³
Remark (BE)	(fumées et poussières) (en Co)
Czech Republic - Occupational Exposure Limits	
Local name	Kobalt a jeho sloučeniny, jako Co
Expoziční limity (PEL) (mg/m ³)	0.05 mg/m ³
Expoziční limity (NPK-P) (mg/m ³)	0.1 mg/m ³
Remark	S - látka má senzibilizující účinek (s větou H317, H334), V - vdechovatelná frakce aerosolu.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Cobalt, pulver, støv, røg og uorganiske forbindelser
Grænseværdi (8 timer) (mg/m ³)	0.01 mg/m ³ beregnet som Co
Remark	K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	Koboltti ja sen epäorgaaniset yhdisteet
HTP-arvo (8h) (mg/m ³)	0.02 mg/m ³ Co
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
Finland - Biological limit values	

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Cobalt Hydroxide (21041-93-0)	
Local name	Koboltti ja sen epäorgaaniset yhdisteet
BLV	130 nmol/l Parametri: Virtsan koboltti - Näytteenottoajankohta: Työvaiheen tai työvuoron päätyttyä työviikon tai altistumisjakson loputtua
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
Hungary - Occupational Exposure Limits	
Local name	KOBALT ÉS SZERVETLEN VEGYÜLETEI (Co-ra számítva)
AK-érték	0.02 mg/m ³
CK-érték	0.4 mg/m ³
Remark	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindháromat), sz (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat), BEM (biológiai expozíciós mutató); 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
Hungary - Biological Exposure Indices	
Local name	Kobalt
BEI	0.01 mg/g creatinine Biológiai expozíciós (hatás) mutató: kobalt - Biológiai minta: vizeletben - Mintavétel ideje: m.v. (műszak végén) 0.019 µmol/mmol Creatinine Biológiai expozíciós (hatás) mutató: kobalt - 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
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	0.1 mg/m ³
Latvia - Occupational Exposure Limits	
Local name	Kobalts
OEL TWA	0.5 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	0.05 mg/m ³
Netherlands - Occupational Exposure Limits	
Local name	Kobalt
Grenswaarde TGG 8H (mg/m ³)	0.02 mg/m ³ (stof en rook) (als Co)
Regulatory reference	Arbeidsomstandighedenregeling 2021
Poland - Occupational Exposure Limits	

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Cobalt Hydroxide (21041-93-0)	
Local name	Kobalt metaliczny i jego związki nieorganiczne
NDS (mg/m ³)	0.02 mg/m ³ w przeliczeniu na Co
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Cobalto e compostos inorgânicos, expressos em Co
OEL TWA (mg/m ³)	0.02 mg/m ³
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
Portugal - Biological Exposure Indices	
Local name	Cobalto
BEI	15 µg/l Parâmetro: Cobalto - Meio: urina - Momento da amostragem: Fim do turno no fim da semana de trabalho - Notação: Vb (Valor basal) 1 µg/l Parâmetro: Cobalto - Meio: sangue - Momento da amostragem: Fim do turno no fim da semana de trabalho - Notação: Vb (Valor basal), Sq (Semi quantitativo)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Kobalt a jeho zlúčeniny (ako Co)
NPHV (priemerná) (mg/m ³)	0.05 mg/m ³
NPHV (priemerná) (ppm)	30 µg/l (Kobalt)
Remark	S - znamená, že faktor môže spôsobiť senzibilizáciu
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Spain - Occupational Exposure Limits	
Local name	Cobalto elemental
VLA-ED (mg/m ³)	0.02 mg/m ³
VLA-ED (ppm)	15 µg/l F "(Cobalto en orina; Final de la semana laboral 1)" 1 µg/l F, S "(Cobalto en sangre; Final de la semana laboral 1)"
Notes	VLB® (Agente químico que tiene Valor Límite Biológico), Sen (Sensibilizante).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Spain - Biological limit values	
Local name	Cobalto y compuestos inorgánicos excepto óxidos
BLV	15 µg/l Parámetro: Cobalto - 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) 1 µg/l Parámetro: Cobalto - Medio: Sangre - Momento de muestreo: Final de la semana laboral - Notas: F (Fondo. El indicador está generalmente presente en cantidades

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Cobalt Hydroxide (21041-93-0)	
	detectables en personas no expuestas laboralmente. Estos niveles de fondo están considerados en el valor VLB), S (Significa que el indicador biológico es un indicador de exposición al agente químico en cuestión, pero la interpretación cuantitativa de su medida es ambigua (semicuantitativa). Estos indicadores biológicos deben utilizarse como una prueba de selección (screening) cuando no se pueda realizar una prueba cuantitativa o usarse como prueba de confirmación, si la prueba cuantitativa no es específica y el origen del determinante es dudoso)
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Kobolt, och oorg. föreningar (som Co)
Nivågränsvärde (NVG) (mg/m³)	0.02 mg/m³ inhalerbar fraktion
Remark	C (Ämnet är cancerframkallande. Risk för cancer finns även vid annan exponering än via inandning. För vissa cancerframkallande ämnen som inte har gränsvärden gäller förbud eller tillståndskrav enligt föreskrifterna om kemiska arbetsmiljörisker); H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga); S (Ämnet är sensibiliserande. Sensibiliserande ämnen kan ge allergi eller annan överkänslighet. Överkänslighetsbesvären drabbar främst huden eller andningsorganen. Överkänslighet innebär att man reagerar vid kontakt med ämnen som normalt inte ger besvär. Allergi är en undergrupp av överkänslighet som orsakas av reaktioner i kroppens immunsystem. Särskilt låga gränsvärden har fastställts för ämnen med mer uttalat luftvägssensibiliserande egenskaper. Några ämnen med starkt sensibiliserande egenskaper får endast hanteras efter tillstånd från Arbetsmiljöverket, se föreskrifterna om kemiska arbetsmiljörisker. Dessa ämnen har inga gränsvärden men i vissa fall riktvärden); 3 (Med inhalerbar fraktion menas den mängd partiklar, av totalmängden partiklar i luften, som man inandas genom näsa och mun)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Grenseverdier (AN) (mg/m³)	0.02 mg/m³ RA // Kobolt (røyk) og uorg. Kobolt-forb. (beregnet som Co, unntatt CO(II))
Switzerland - Occupational Exposure Limits	
VME [mg/m³]	0.05 mg/m³ (einatembarer Staub)
MAK (ppm)	30 µg/l Cobalt, Urin, b
aluminium powder (pyrophoric) (7429-90-5)	
Austria - Occupational Exposure Limits	
MAK [mg/m³]	10 mg/m³ (gemessen als einatembarer Aerosolanteil) 5 mg/m³ (alveolengängiger Anteil)
MAK Short time value [mg/m³]	20 mg/m³ (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 mg/m³ (alveolengängiger Anteil) max. 2x60 min./Schicht
Belgium - Occupational Exposure Limits	
Limit value [mg/m³]	1 mg/m³
Remark (BE)	(Aluminium, métal et composés insolubles, fraction alvéolaire)

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aluminium powder (pyrophoric) (7429-90-5)	
Czech Republic - Occupational Exposure Limits	
Local name	Hliník a jeho oxidy (s výjimkou gama Al ₂ O ₃)
Expoziční limity (PEL) (mg/m ³)	10 mg/m ³
Remark	Prachy s převážně nespecifickým účinkem.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Aluminium, pulver og støv
Grænseværdi (8 timer) (mg/m ³)	5 mg/m ³ total 2 mg/m ³ respirabel
Grænseværdi (STEL) (mg/m ³)	4 mg/m ³ (respirabel) 10 mg/m ³ (total)
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	2 mg/m ³
France - Occupational Exposure Limits	
Local name	Aluminium
VME [mg/m ³]	10 mg/m ³ (métal) 5 mg/m ³ (pulvérulent)
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Aluminium
Germany - Biological limit values (TRGS 903)	
Biological limit value	200 µg/l
Remark	Aluminium (Urin; Expositionsende bzw. Schichtende)
Hungary - Occupational Exposure Limits	
Local name	ALUMINIUM (oldható, AL-ra számolva)
AK-érték	1 mg/m ³ respirábilis frakció
Remark	N (Iritáló 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
Hungary - Biological Exposure Indices	
Local name	Alumínium
BEI	0.06 mg/g creatinine Biológiai expozíciós (hatás) mutató: alumínium - Biológiai minta: vizeletben - Mintavétel ideje: n.k. (nem kritikus) 0.25 µmol/mmol Creatinine Biológiai expozíciós (hatás) mutató: alumínium - Biológiai

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aluminium powder (pyrophoric) (7429-90-5)	
	minta: vizeletben - Mintavétel ideje: n.k. (nem kritikus)
Remark	A foglalkozási vegyi expozíció esetén ajánlott biológiai expozíciós és hatásmutatók határértékei
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	1 mg/m ³
Latvia - Occupational Exposure Limits	
Local name	Alumīnijs un tā sakausējumi (pēc alumīnija)
OEL TWA	2 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	2 mg/m ³ (alveoline frakcija) 1 mg/m ³ (Aliuminis (metalas) ir jo tirpus junginiai, kaip Al) 5 mg/m ³ (ákvepiamoji frakcija)
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m ³)	10 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Glin metaliczny, glin proszek (niestabilizowany)
NDS (mg/m ³)	2.5 mg/m ³ frakcja wdychalna 1.2 mg/m ³ frakcja respirabilna
Remark	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikająca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Alumínio e compostos insolúveis, expresso em Al
OEL TWA (mg/m ³)	1 mg/m ³ R (Fração respirável)
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Hliník kovový
NPHV (priemerná) (mg/m ³)	4 mg/m ³ inhalovateľná frakcia – prach 1.5 mg/m ³ respirabilná frakcia – prach
NPHV (priemerná) (ppm)	60 µg/g creatinine (Hliník, M,a)

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aluminium powder (pyrophoric) (7429-90-5)	
	25 µg/g creatinine (Celkový, M,,d) 150 µg/g creatinine (Celkový,M,b)
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovakia - Biological limit values	
Local name	Hliník
BLV	60 µg/g creatinine Zisťovaný faktor: Hliník - Vyšetovaný materiál: moč - Čas odberu vzorky: a) žiadne obmedzenie
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (Zmena: 471/2011 Z.z.)
Slovenia - Biological limit values	
Local name	aluminij
BLV	200 µg/l Parameter: aluminij - Biološki vzorec: urin - Čas vzorčenja: ob koncu delovne izmene
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	Aluminio
VLA-ED (mg/m ³)	1 mg/m ³ Fracción respirable
Notes	d (Véase UNE EN 481: Atmósferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Aluminium, lösliga föreningar (som Al)
Nivågränsvärde (NVG) (mg/m ³)	1 mg/m ³ totaldamm
Remark	3 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	Aluminiumpulver (pyroteknikk)
Grønseverdier (AN) (mg/m ³)	5 mg/m ³
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(alveolengängiger Staub)
Paraffin waxes (8002-74-2)	

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Paraffin waxes (8002-74-2)	
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	2 mg/m ³
Remark (BE)	(cire de) (fumées)
Denmark - Occupational Exposure Limits	
Local name	Paraffinrøg
Grænseværdi (8 timer) (mg/m ³)	2 mg/m ³
Finland - Occupational Exposure Limits	
Local name	Parafiinihuurut
HTP-arvo (8h) (mg/m ³)	1 mg/m ³
France - Occupational Exposure Limits	
Local name	Cire de paraffine
VME [mg/m ³]	2 mg/m ³
Note (FR)	Valeurs recommandées/admises
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	2 mg/m ³
OEL (15 min ref) (mg/m ³)	6 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Parafina stała dymy
NDS (mg/m ³)	2 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	Parafina (cera), fumos
OEL TWA (mg/m ³)	2 mg/m ³
Slovakia - Occupational Exposure Limits	
Local name	Parafin, dymy
NPHV (priemerná) (mg/m ³)	2 mg/m ³
NPHV (OEL STEL)	6 mg/m ³
Spain - Occupational Exposure Limits	
Local name	Cera de parafina
VLA-ED (mg/m ³)	2 mg/m ³
Norway - Occupational Exposure Limits	
Local name	Parafin
Grænseverdier (AN) (mg/m ³)	2 mg/m ³
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	2 mg/m ³

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Paraffin waxes (8002-74-2)	
Remark	(alveolengängiger Staub)
Silicon dioxide (amorphous) (112926-00-8)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	4 mg/m ³
Remark (AT)	(einatembare Fraktion)
Czech Republic - Occupational Exposure Limits	
Local name	Amorfní SiO ₂
Expoziční limity (PEL) (mg/m ³)	4 mg/m ³
Remark	Prachy s možným fibrogenním účinkem.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	5 mg/m ³
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Kieselsäuren, amorphe
Occupational exposure limit value (mg/m ³)	4 mg/m ³
Remark	(einatembare Fraktion)
Regulatory reference	TRGS900
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	2.4 mg/m ³ 6 mg/m ³ (total inhalable dust)
Latvia - Occupational Exposure Limits	
Local name	Siļīcija dioksīds
OEL TWA	1 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2020. gada 7. janvārī noteikumiem Nr. 11)
Slovenia - Occupational Exposure Limits	
Local name	silikagel
OEL TWA	4 mg/m ³
Remark	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	10 mg/m ³
Notes	(respirable aerosol)
Switzerland - Occupational Exposure Limits	

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Silicon dioxide (amorphous) (112926-00-8)	
VME [mg/m ³]	4 mg/m ³
Remark	(einatembarer Staub)
Iron oxide red (1309-37-1)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	10 mg/m ³ (einatembare Fraktion) 5 mg/m ³ (aveolengängige Fraktion)
MAK Short time value [mg/m ³]	20 mg/m ³ (einatembare Fraktion) max. 2x60 min./Schicht 10 mg/m ³ (aveolengängige Fraktion) max. 2x60 min./Schicht
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	5 mg/m ³
Limit value [ppm]	2 ppm
Remark (BE)	(trioxyde de; fumées, en Fe)
Denmark - Occupational Exposure Limits	
Local name	Jernoxid
Grænseværdi (8 timer) (mg/m ³)	3.5 mg/m ³ beregnet som Fe
Grænseværdi (STEL) (mg/m ³)	7 mg/m ³
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	Rautaoksidi, huurut
HTP-arvo (8h) (mg/m ³)	5 mg/m ³ Fe
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Fer (Trioxyde de di-, fumées), en Fe
VME [mg/m ³]	5 mg/m ³
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Hungary - Occupational Exposure Limits	
Local name	VAS(III)-OXID (Fe-ra számítva)
AK-érték	4 mg/m ³ respirábilis frakció
Remark	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
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	5 mg/m ³ (Iron oxide, fume as Fe)

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Iron oxide red (1309-37-1)	
	10 mg/m ³ (Rouge total inhalable dust) 4 mg/m ³ (Rouge total respirable dust)
OEL (15 min ref) (mg/m ³)	10 mg/m ³ (Iron oxide, fume as Fe)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	3.5 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Tlenek żelaza (III)
NDS (mg/m ³)	5 mg/m ³ w przeliczeniu na Fe: frakcja wdychalna 2.5 mg/m ³ w przeliczeniu na Fe: frakcja respirabilna
NDSCh (mg/m ³)	5 mg/m ³ w przeliczeniu na Fe: frakcja respirabilna 10 mg/m ³ w przeliczeniu na Fe: frakcja wdychalna
Remark	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Óxido de ferro
OEL TWA (mg/m ³)	5 mg/m ³ R (Fração respirável)
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Oxidy železa, dymy (ako Fe)
NPHV (priemerná) (mg/m ³)	1.5 mg/m ³ respirabilná frakcia 4 mg/m ³ inhalovateľná frakcia
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Spain - Occupational Exposure Limits	
Local name	Óxido de hierro (III)
VLA-ED (mg/m ³)	5 mg/m ³ polvo y humos, como Fe
Notes	(Óxido de hierro(III) (polvo y humos), como Fe)
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Järnoxid (som Fe)
Nivågränsvärde (NVG) (mg/m ³)	3.5 mg/m ³ respirabel fraktion
Remark	3 (Den respirabla fraktionen är de inhalerbara partiklar som når längst ner i luftvägarna, till alveolerna i lungorna)

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Iron oxide red (1309-37-1)	
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	Jern(III)oxid (beregnet som Fe)
Greenseverdier (AN) (mg/m ³)	3 mg/m ³
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(alveolengängiger Staub)
butanone oxime (96-29-7)	
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Butanonoxim
Occupational exposure limit value (mg/m ³)	1 mg/m ³
Occupational exposure limit value (ppm)	0.3 ppm
Peak exposure limitation factor	8(l)
Remark	AGS - Ausschuss für Gefahrstoffe; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; H - hautresorptiv; Sh - Hautsensibilisierender Stoff
Regulatory reference	TRGS900
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	10 mg/m ³
OEL (8 hours ref) (ppm)	3 ppm
OEL (15 min ref) (mg/m ³)	33 mg/m ³
OEL (15 min ref) (ppm)	10 ppm
Slovenia - Occupational Exposure Limits	
Local name	Butanonoksim
OEL TWA	1 mg/m ³
OEL TWA [ppm]	0.3 ppm
OEL STEL	8 mg/m ³
OEL STEL [ppm]	2.4 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)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Distillates (petroleum), hydrotreated light (64742-47-8)	
Germany - Occupational Exposure Limits (TRGS 900)	

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Distillates (petroleum), hydrotreated light (64742-47-8)	
Occupational exposure limit value (mg/m ³)	600 mg/m ³
Stoddard solvent (benzene < 0.1%) (8052-41-3)	
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	533 mg/m ³
Limit value [ppm]	100 ppm
Denmark - Occupational Exposure Limits	
Local name	Terpentin, mineralsk, max. 20 pct. aromater
Grænseværdi (8 timer) (mg/m ³)	145 mg/m ³
Grænseværdi (8 timer) (ppm)	25 ppm
Grænseværdi (STEL) (mg/m ³)	290 mg/m ³
Grænseværdi (STEL) (ppm)	50 ppm
Remark	2) På grund af denne grænseværdi vil Arbejdstilsynets bekendtgørelse nr. 301 af 13. maj 1993 om fastsættelse af kodenumre blive ændret. Forbudsskemaet i bilag 2, Bygninger mv. i Arbejdstilsynets bekendtgørelse nr. 302 af 13. maj 1993 om arbejde med kodenummererede produkter, vil samtidig blive ændret, så der fortsat, som i dag, kan udføres malearbejde udvendigt om vinteren uden væsentlige merudgifter. Begge ændringer vil træde i kraft samtidig.
Regulatory reference	BEK nr 290 af 13/02/2021
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	573 mg/m ³
OEL (8 hours ref) (ppm)	100 ppm
Poland - Occupational Exposure Limits	
Local name	Benzyna do lakierów
NDS (mg/m ³)	300 mg/m ³
NDSCh (mg/m ³)	900 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Solvente de Stoddard
OEL TWA [ppm]	100 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Calcium carbonate (471-34-1)	
France - Occupational Exposure Limits	
Local name	Calcium (carbonate de) (Calcite) (Marbre)
VME [mg/m ³]	10 mg/m ³
Note (FR)	inhalable aerosol

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Calcium carbonate (471-34-1)	
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Hungary - Occupational Exposure Limits	
AK-érték	10 mg/m ³
Latvia - Occupational Exposure Limits	
Local name	Kalcija karbonāts
OEL TWA	6 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Poland - Occupational Exposure Limits	
Local name	Węgiel wapnia
NDS (mg/m ³)	10 mg/m ³
Remark	Frakcja wdychalna – frakcja aerozolu wnika przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.
Regulatory reference	Dz. U. 2018 poz. 1286
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(respirable aerosol)
cobalt bis(2-ethylhexanoate) (136-52-7)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	0.1 mg/m ³ (einatembare Fraktion), (III A2,H,Sah)
MAK Short time value [mg/m ³]	0.4 mg/m ³ (einatembare Fraktion) max. 4x15 min./Schicht, (III A2,H,Sah)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	0.02 mg/m ³
Remark (BE)	(fumées et poussières) (en Co)
Czech Republic - Occupational Exposure Limits	
Local name	Kobalt a jeho sloučeniny, jako Co
Expoziční limity (PEL) (mg/m ³)	0.05 mg/m ³
Expoziční limity (NPK-P) (mg/m ³)	0.1 mg/m ³
Remark	S - látka má senzibilizující účinek (s větou H317, H334), V - vdechovatelná frakce aerosolu.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Cobalt, pulver, støv, røg og uorganiske forbindelser
Grænseværdi (8 timer) (mg/m ³)	0.01 mg/m ³ beregnet som Co
Remark	K (betyder, at stoffet anses for at kunne være kræftfremkaldende)

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cobalt bis(2-ethylhexanoate) (136-52-7)	
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	Koboltti ja sen epäorgaaniset yhdisteet
HTP-arvo (8h) (mg/m ³)	0.02 mg/m ³ Co
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
Finland - Biological limit values	
Local name	Koboltti ja sen epäorgaaniset yhdisteet
BLV	130 nmol/l Parametri: Virtsan koboltti - Näytteenottoajankohta: Työvaiheen tai työvuoron päätyttyä työviikon tai altistumisjakson loputtua
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
Hungary - Occupational Exposure Limits	
Local name	KOBALT ÉS SZERVETLEN VEGYÜLETEI (Co-ra számítva)
AK-érték	0.02 mg/m ³
CK-érték	0.4 mg/m ³
Remark	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát), sz (Túlerzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlerzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat), BEM (biológiai expozíciós mutató); 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
Hungary - Biological Exposure Indices	
Local name	Kobalt
BEI	0.01 mg/g creatinine Biológiai expozíciós (hatás) mutató: kobalt - Biológiai minta: vizeletben - Mintavétel ideje: m.v. (műszak végén) 0.019 µmol/mmol Creatinine Biológiai expozíciós (hatás) mutató: kobalt - 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
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	0.1 mg/m ³
Latvia - Occupational Exposure Limits	
Local name	Kobalts
OEL TWA	0.5 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumi Nr. 325
Lithuania - Occupational Exposure Limits	

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cobalt bis(2-ethylhexanoate) (136-52-7)	
IPRV (mg/m ³)	0.05 mg/m ³
Netherlands - Occupational Exposure Limits	
Local name	Kobalt
Grenswaarde TGG 8H (mg/m ³)	0.02 mg/m ³ (stof en rook) (als Co)
Regulatory reference	Arbeidsomstandighedenregeling 2021
Poland - Occupational Exposure Limits	
Local name	Kobalt metaliczny i jego związki nieorganiczne
NDS (mg/m ³)	0.02 mg/m ³ w przeliczeniu na Co
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Cobalto e compostos inorgânicos, expressos em Co
OEL TWA (mg/m ³)	0.02 mg/m ³
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
Portugal - Biological Exposure Indices	
Local name	Cobalto
BEI	15 µg/l Parâmetro: Cobalto - Meio: urina - Momento da amostragem: Fim do turno no fim da semana de trabalho - Notação: Vb (Valor basal) 1 µg/l Parâmetro: Cobalto - Meio: sangue - Momento da amostragem: Fim do turno no fim da semana de trabalho - Notação: Vb (Valor basal), Sq (Semi quantitativo)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Kobalt a jeho zlúčeniny (ako Co)
NPHV (priemerná) (mg/m ³)	0.05 mg/m ³
NPHV (priemerná) (ppm)	30 µg/l (Kobalt)
Remark	S - znamená, že faktor môže spôsobiť senzibilizáciu
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Spain - Occupational Exposure Limits	
Local name	Cobalto elemental
VLA-ED (mg/m ³)	0.02 mg/m ³
VLA-ED (ppm)	15 µg/l F "(Cobalto en orina; Final de la semana laboral 1)" 1 µg/l F, S "(Cobalto en sangre; Final de la semana laboral 1)"
Notes	VLB® (Agente químico que tiene Valor Límite Biológico), Sen (Sensibilizante).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT

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cobalt bis(2-ethylhexanoate) (136-52-7)	
Spain - Biological limit values	
Local name	Cobalto y compuestos inorgánicos excepto óxidos
BLV	<p>15 µg/l Parámetro: Cobalto - 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)</p> <p>1 µg/l Parámetro: Cobalto - Medio: Sangre - 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), S (Significa que el indicador biológico es un indicador de exposición al agente químico en cuestión, pero la interpretación cuantitativa de su medida es ambigua (semicuantitativa). Estos indicadores biológicos deben utilizarse como una prueba de selección (screening) cuando no se pueda realizar una prueba cuantitativa o usarse como prueba de confirmación, si la prueba cuantitativa no es específica y el origen del determinante es dudoso)</p>
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Kobolt, och oorg. föreningar (som Co)
Nivågränsvärde (NVG) (mg/m ³)	0.02 mg/m ³ inhalerbar fraktion
Remark	<p>C (Ämnet är cancerframkallande. Risk för cancer finns även vid annan exponering än via inandning. För vissa cancerframkallande ämnen som inte har gränsvärden gäller förbud eller tillståndskrav enligt föreskrifterna om kemiska arbetsmiljörisker); H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga); S (Ämnet är sensibiliserande. Sensibiliserande ämnen kan ge allergi eller annan överkänslighet. Överkänslighetsbesvären drabbar främst huden eller andningsorganen. Överkänslighet innebär att man reagerar vid kontakt med ämnen som normalt inte ger besvär. Allergi är en undergrupp av överkänslighet som orsakas av reaktioner i kroppens immunsystem. Särskilt låga gränsvärden har fastställts för ämnen med mer uttalat luftvägssensibiliserande egenskaper. Några ämnen med starkt sensibiliserande egenskaper får endast hanteras efter tillstånd från Arbetsmiljöverket, se föreskrifterna om kemiska arbetsmiljörisker. Dessa ämnen har inga gränsvärden men i vissa fall riktvärden); 3 (Med inhalerbar fraktion menas den mängd partiklar, av totalmängden partiklar i luften, som man inandas genom näsa och mun)</p>
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Grenseverdier (AN) (mg/m ³)	0.02 mg/m ³ RA // Kobolt (røyk) og uorg. Kobolt-forb. (beregnet som Co, unntatt CO(II))
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	0.05 mg/m ³ (einatembarer Staub)
MAK (ppm)	30 µg/l Cobalt, Urin, b
Titanium dioxide (13463-67-7)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	5 mg/m ³ (alveolengängiger Anteil)

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Titanium dioxide (13463-67-7)	
MAK Short time value [mg/m ³]	10 mg/m ³ max. 2x60 min./Schicht (alveolengängiger Anteil)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	10 mg/m ³
Remark (BE)	(dioxyde de)
Denmark - Occupational Exposure Limits	
Local name	Titandioxid
Grænseværdi (8 timer) (mg/m ³)	6 mg/m ³ beregnet som Ti
Grænseværdi (STEL) (mg/m ³)	12 mg/m ³
Regulatory reference	BEK nr 290 af 13/02/2021
France - Occupational Exposure Limits	
Local name	Titane (dioxyde de), en Ti
VME [mg/m ³]	10 mg/m ³
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust
Latvia - Occupational Exposure Limits	
Local name	Titāna dioksīds
OEL TWA	10 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	5 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Ditlenek tytanu
NDS (mg/m ³)	10 mg/m ³ frakcja wdychalna
Remark	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Obowiązuje jednocześnie oznaczanie stężeń frakcji respirabilnej krzemionki krystalicznej.
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Dióxido de titânio
OEL TWA (mg/m ³)	10 mg/m ³
Remark	A4 (Agente não classificável como carcinogénico no Homem)

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Titanium dioxide (13463-67-7)	
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Oxid titaničitý
NPHV (priemerná) (mg/m ³)	5 mg/m ³
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Spain - Occupational Exposure Limits	
Local name	Dióxido de titanio
VLA-ED (mg/m ³)	10 mg/m ³
Notes	inhalable aerosol
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Titandioxid
Nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ totaldamm
Remark	3 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetarskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	Titandioksid
Grenseverdier (AN) (mg/m ³)	5 mg/m ³
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(respirable aerosol)
Carbon black (1333-86-4)	
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	3.5 mg/m ³
Czech Republic - Occupational Exposure Limits	
Local name	Amorfní uhlík (Carbon Black)
Expoziční limity (PEL) (mg/m ³)	10 mg/m ³
Remark	Prachy s převážně nespecifickým účinkem.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	

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Carbon black (1333-86-4)	
Local name	Carbon black
Grænseværdi (8 timer) (mg/m ³)	3.5 mg/m ³
Remark	K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	Nokimusta
HTP-arvo (8h) (mg/m ³)	3.5 mg/m ³
HTP-arvo (15 min)	7 mg/m ³
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Noir de carbone
VME [mg/m ³]	3.5 mg/m ³
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Hungary - Occupational Exposure Limits	
Local name	Ipari korom [„Carbon Black“]
AK-érték	3 mg/m ³ belélevezhető koncentráció
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	3.5 mg/m ³
OEL (15 min ref) (mg/m ³)	7 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Sadza techniczna
NDS (mg/m ³)	4 mg/m ³ frakcja wdychalna
Remark	Frakcja wdychalna – frakcja aerozolu wnikaająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Carbono, preto (Negro de fumo)
OEL TWA (mg/m ³)	3 mg/m ³ I (Fração inalável)
Remark	A3 (Agente carcinogénico confirmado nos animais de laboratorio con relevância desconhecida no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Spain - Occupational Exposure Limits	

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Carbon black (1333-86-4)	
Local name	Negro de humo
VLA-ED (mg/m ³)	3.5 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Kimrök
Nivågränsvärde (NVG) (mg/m ³)	3 mg/m ³
Norway - Occupational Exposure Limits	
Local name	Carbon Black (lampesot)
Grenseverdier (AN) (mg/m ³)	3.5 mg/m ³
Regulatory reference	FOR-2020-04-06-695
ethylbenzene (100-41-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethylbenzene
IOEL TWA	442 mg/m ³
IOEL TWA [ppm]	100 ppm
IOELV STEL (mg/m ³)	884 mg/m ³ 884 mg/m ³
IOELV STEL (ppm)	200 ppm 200 ppm
Notes	Skin Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	440 mg/m ³ (H)
MAK (OEL TWA) [ppm]	100 ppm (H)
MAK Short time value [mg/m ³]	880 mg/m ³ max. 8x5 min./Schicht (gemessen als Momentanwert), (H)
MAK Short time value [ppm]	200 ppm max. 8x5 min./Schicht (gemessen als Momentanwert), (H)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	442 mg/m ³
Limit value [ppm]	100 ppm
Short time value [mg/m ³]	551 mg/m ³
Short time value [ppm]	125 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	

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ethylbenzene (100-41-4)	
Local name	Ethylbenzen
Expoziční limit (PEL) (mg/m ³)	200 mg/m ³
Expoziční limit (PEL) (ppm)	45 ppm
Expoziční limit (NPK-P) (mg/m ³)	500 mg/m ³
Expoziční limit (NPK-P) (ppm)	114 ppm
Remark	D - při expozici se významně uplatňuje pronikání faktoru kůží, B - u látky je zaveden biologický expoziční test (BET) v moči nebo krvi.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Czech Republic - Biological limit values	
Local name	Ethylbenzen
BLV	1500 mg/g creatinine Ukazatel: Mandlová kyselina - Biološki uzorak: moči - Doba odběru: konec směny 1100 µmol/mmol Creatinine Ukazatel: Mandlová kyselina - Biološki uzorak: moči - Doba odběru: konec směny
Regulatory reference	Vyhláška č. 107/2013 Sb. (kterou se mění vyhláška č. 432/2003 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Ethylbenzen
Grænseværdi (8 timer) (mg/m ³)	217 mg/m ³
Grænseværdi (8 timer) (ppm)	50 ppm
Grænseværdi (STEL) (mg/m ³)	434 mg/m ³
Grænseværdi (STEL) (ppm)	100 ppm
Remark	E (betyder, at stoffet har en EF-grænseværdi); K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	Etylibentseeni
HTP-arvo (8h) (mg/m ³)	220 mg/m ³
HTP-arvo (8h) (ppm)	50 ppm
HTP-arvo (15 min)	880 mg/m ³
HTP-arvo (15 min) (ppm)	200 ppm
Remark	Iho
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden tutkimuskeskus)
Finland - Biological limit values	
Local name	Etylibentseeni
BLV	5.2 mmol/l Parametri: Virtsan mantelihappo - Näytteenottoajankohta: Työvuoron päätyttyä työviikon tai altistusjakson loputtua

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ethylbenzene (100-41-4)	
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystministeriö)
France - Occupational Exposure Limits	
Local name	Ethylbenzène
VME [mg/m ³]	88.4 mg/m ³
VME (OEL TWA) [ppm]	20 ppm
VLE [mg/m ³]	442 mg/m ³
VLE [ppm]	100 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487; Décret n° 2020-1546; Décret n°2021-434)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Ethylbenzol
Occupational exposure limit value (mg/m ³)	88 mg/m ³
Occupational exposure limit value (ppm)	20 ppm
Peak exposure limitation factor	2(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); H - hautresorptiv; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich)
Regulatory reference	TRGS900
Germany - Biological limit values (TRGS 903)	
Biological limit value	1 mg/l Ethylbenzol (Blut; Expositionsende bzw. Schichtende) 800 mg/l Mandelsäure + Phenylglyoxylsäure (Urin; Expositionsende bzw. Schichtende)
Hungary - Occupational Exposure Limits	
Local name	ETILBENZOL
AK-érték	442 mg/m ³
CK-érték	884 mg/m ³
Remark	b (Bőrön át is felszívódik), i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát), BEM (biológiai expozíciós mutató); EU1 (2000/39/EK irányelvben közölt érték); T (Azok az anyagok, amelyek egészségkárosító hatása TARTÓS expozíciót követően jelentkezik)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Hungary - Biological Exposure Indices	
Local name	Etilbenzol
BEI	1500 mg/g creatinine Biológiai expozíciós (hatás) mutató: mandulasav - Biológiai minta:

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ethylbenzene (100-41-4)	
	vizeletben - Mintavétel ideje: m.hv., m.v. (munkahét végén, műszak végén) 1110 µmol/mmol Creatinine Biológiai expozíció (hatás) mutató: mandulasav - Biológiai minta: vizeletben - Mintavétel ideje: m.hv., m.v. (munkahét végén, műszak végén)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	442 mg/m ³
OEL (8 hours ref) (ppm)	100 ppm
OEL (15 min ref) (mg/m ³)	884 mg/m ³
OEL (15 min ref) (ppm)	200 ppm
Italy - Occupational Exposure Limits	
Local name	Etilbenzene
OEL TWA	442 mg/m ³
OEL TWA [ppm]	100 ppm
OEL STEL	884 mg/m ³
OEL STEL (ppm)	200 ppm
Remark	Cute
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Etilbenzols
OEL TWA	442 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL	884 mg/m ³
OEL STEL [ppm]	200 ppm
Remark	Āda, letekme uz dzirdi
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumi Nr. 325 (Grozījumi Ministru kabineta 2015. gada 7. aprīlī noteikumi Nr. 163)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	442 mg/m ³
IPRV (OEL TWA) [ppm]	100 ppm
TPRV (mg/m ³)	884 mg/m ³
TPRV (ppm)	200 ppm
Netherlands - Occupational Exposure Limits	
Local name	Ethylbenzeen
Grenswaarde TGG 8H (mg/m ³)	215 mg/m ³

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ethylbenzene (100-41-4)	
Grenswaarde TGG 15MIN (mg/m ³)	430 mg/m ³
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 2021
Poland - Occupational Exposure Limits	
Local name	Etylobenzen
NDS (mg/m ³)	200 mg/m ³
NDSCh (mg/m ³)	400 mg/m ³
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	Etilbenzeno
OEL TWA [ppm]	20 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
Portugal - Biological Exposure Indices	
Local name	Etilbenzeno
BEI	0.7 g/g creatinine Parâmetro: Soma do ácido mandélico e do ácido fenilfloxílico - Meio: urina - Momento da amostragem: Fim do turno - Notação: Ne (Não específico)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Etylbenzén
NPHV (priemerná) (mg/m ³)	442 mg/m ³
NPHV (priemerná) (ppm)	100 ppm
NPHV (OEL STEL)	884 mg/m ³
NPHV (OEL STEL) [ppm]	200 ppm
Remark	K - znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovakia - Biological limit values	
Local name	Etylbenzén
BLV	12 mg/l Zisťovaný faktor: 2 - a 4 -Etylfenol - Vyšetovaný materiál: moč - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny, c) pri dlhodobej expozícii; po

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ethylbenzene (100-41-4)	
	viacerých pracovných zmenách 1600 mg/l Zisťovaný faktor: Kyselina mandľová a kyselina fenylglyoxylová - Vyšetovaný materiál: moč - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny, c) pri dlhodobej expozícii; po viacerých pracovných zmenách
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (Zmena: 471/2011 Z.z.)
Slovenia - Occupational Exposure Limits	
Local name	etilbenzen
OEL TWA	442 mg/m ³
OEL TWA [ppm]	100 ppm
OEL STEL	884 mg/m ³
OEL STEL [ppm]	200 ppm
Remark	K (Lastnosť lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biološka mejna vrednost), EKA (Zveza med koncentracijo rakotvornih snovi v zraku na delovnem mestu in količino snovi in/ali njenih metabolitov v organizmu), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Slovenia - Biological limit values	
Local name	etilbenzen
BLV	250 mg/g creatinine Parameter: mandljeva kislina in fenilglioksilna kislina - Biološki vzorec: urin - Čas vzorčenja: ob koncu delovne izmene
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	Etilbenceno
VLA-ED (mg/m ³)	441 mg/m ³
VLA-ED (ppm)	100 ppm
VLA-EC (mg/m ³)	884 mg/m ³
VLA-EC (ppm)	200 ppm
Notes	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLB® (Agente químico que tiene Valor Límite Biológico), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Etylbensen
Nivågränsvärde (NVG) (mg/m ³)	220 mg/m ³
Nivågränsvärde (NVG) (ppm)	50 ppm

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ethylbenzene (100-41-4)	
Kortidsvärde (KTV) (mg/m ³)	884 mg/m ³
Kortidsvärde (KTV) (ppm)	200 ppm
Remark	H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	Etylbenzen
Grenseverdier (AN) (mg/m ³)	20 mg/m ³
Grenseverdier (AN) (ppm)	5 ppm
Remark	H: Kjemikalier som kan tas opp gjennom huden; K: Kjemikalier som skal betraktes som kreftfremkallende; E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	435 mg/m ³
MAK (ppm)	100 ppm 1.5 ppm Etilbenzene (sangue; fine dell'esposizione / del turno) 2 ppm Acido mandelico + acido fenilglossilico (urina; fine dell'esposizione / del turno)
KZGW (mg/m ³)	435 mg/m ³
KZGW (ppm)	100 ppm
Toluene (108-88-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Toluene
IOEL TWA	192 mg/m ³
IOEL TWA [ppm]	50 ppm
IOELV STEL (mg/m ³)	384 mg/m ³ 384 mg/m ³
IOELV STEL (ppm)	100 ppm 100 ppm
Notes	Skin Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC COMMISSION DIRECTIVE 2006/15/EC
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	190 mg/m ³ (H,d)
MAK (OEL TWA) [ppm]	50 ppm (H,d)
MAK Short time value [mg/m ³]	380 mg/m ³ max. 4x15 min./Schicht, (H,d)

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

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Toluene (108-88-3)	
Grænseværdi (STEL) (ppm)	50 ppm
Remark	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	Tolueneeni
HTP-arvo (8h) (mg/m ³)	81 mg/m ³
HTP-arvo (8h) (ppm)	25 ppm
HTP-arvo (15 min)	380 mg/m ³
HTP-arvo (15 min) (ppm)	100 ppm
Remark	lho, melu
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystministeriö)
Finland - Biological limit values	
Local name	Tolueneeni
BLV	500 nmol/l Parametri: Veren tolueneeni - Näytteenottoajankohta: Työpäivän jälkeinen aamu
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystministeriö)
France - Occupational Exposure Limits	
Local name	Toluène
VME [mg/m ³]	76.8 mg/m ³
VME (OEL TWA) [ppm]	20 ppm
VLE [mg/m ³]	384 mg/m ³
VLE [ppm]	100 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487; Décret n° 2020-1546; Décret n°2021-434)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Toluol
Occupational exposure limit value (mg/m ³)	190 mg/m ³
Occupational exposure limit value (ppm)	50 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); H - hautresorptiv; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden

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Toluene (108-88-3)	
Regulatory reference	TRGS900
Germany - Biological limit values (TRGS 903)	
Biological limit value	3 mg/l o-Kresol (Urin; bei Langzeitexposition/Expositionsende bzw. Schichtende) 1 mg/l Toluol (Blut; Expositionsende bzw. Schichtende)
Hungary - Occupational Exposure Limits	
Local name	TOLUOL
AK-érték	190 mg/m ³
CK-érték	380 mg/m ³
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); R+T (Azok az anyagok, amelyek RÖVID és TARTÓS expozíciója is egészségkárosodást okoz)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Hungary - Biological Exposure Indices	
Local name	Toluol
BEI	1 mg/g creatinine Biológiai expozíciós (hatás) mutató: o-krezol - Biológiai minta: vizeletben - Mintavétel ideje: m.v. (műszak végén) 1 µmol/mmol Creatinine Biológiai expozíciós (hatás) mutató: o-krezol - 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
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	192 mg/m ³
OEL (8 hours ref) (ppm)	50 ppm
OEL (15 min ref) (mg/m ³)	384 mg/m ³
OEL (15 min ref) (ppm)	100 ppm
Italy - Occupational Exposure Limits	
Local name	Toluene
OEL TWA	192 mg/m ³
OEL TWA [ppm]	50 ppm
Remark	Cute
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Toluols (metilbenzols)
OEL TWA	50 mg/m ³
OEL TWA (ppm)	14 ppm

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Toluene (108-88-3)	
OEL STEL	150 mg/m ³
OEL STEL [ppm]	40 ppm
Remark	Āda, ietekme uz dzirdi
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2015. gada 7. aprīlī noteikumiem Nr. 163)
Latvia - Biological Exposure Indices	
Local name	Toluolam
BEI	1.6 g/g creatinine Urīnā maiņas beigās nosaka hipurskābi 0.05 mg/l Toluolu asinīs
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2021. gada 18. februārī noteikumiem Nr. 110)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	192 mg/m ³
IPRV (OEL TWA) [ppm]	50 ppm
TPRV (mg/m ³)	384 mg/m ³
TPRV (ppm)	100 ppm
Netherlands - Occupational Exposure Limits	
Local name	Toluene
Grenswaarde TGG 8H (mg/m ³)	150 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	384 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2021
Poland - Occupational Exposure Limits	
Local name	Toluen
NDS (mg/m ³)	100 mg/m ³
NDSCh (mg/m ³)	200 mg/m ³
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	Tolueno
OEL TWA [ppm]	20 ppm
Remark	A4 (Agente não classificável como carcinogénico no Homem); IBE (Índice biológico de exposição)
Regulatory reference	Norma Portuguesa NP 1796:2014
Portugal - Biological Exposure Indices	

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Toluene (108-88-3)	
Local name	Tolueno
BEI	0.02 mg/l Parâmetro: Tolueno - Meio: sangue - Momento da amostragem: Antes do último turno da semana de trabalho 0.03 mg/l Parâmetro: Tolueno - Meio: urina - Momento da amostragem: Fim do turno 0.3 mg/g creatinine Parâmetro: o-Cresol - Meio: urina - Momento da amostragem: Fim do turno - Notação: Vb (Valor basal), Com hidrólise
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Toluén
NPHV (priemerná) (mg/m ³)	192 mg/m ³
NPHV (priemerná) (ppm)	50 ppm
NPHV (OEL STEL)	384 mg/m ³
NPHV (OEL STEL) [ppm]	100 ppm
Remark	K - znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovakia - Biological limit values	
Local name	Toluén
BLV	600 µg/l Zisťovaný faktor: Toluén - Vyšetrovaný materiál: krv - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny 1.5 mg/l Zisťovaný faktor: O-krezol - Vyšetrovaný materiál: moč - Čas odberu vzorky: c) pri dlhodobej expozícii; po viacerých pracovných zmenách, b) koniec expozície alebo pracovnej zmeny 2401 mg/l Zisťovaný faktor: Kyselina hippurová - Vyšetrovaný materiál: moč - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny 1600 mg/g creatinine Zisťovaný faktor: Kyselina hippurová - Vyšetrovaný materiál: moč - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (Zmena: 471/2011 Z.z.)
Slovenia - Occupational Exposure Limits	
Local name	toluen
OEL TWA	192 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	384 mg/m ³
OEL STEL [ppm]	100 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 (Biolóška mejna vrednost), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Slovenia - Biological limit values	
Local name	toluen

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Toluene (108-88-3)	
BLV	600 µg/l Parameter: toluen - Biološki vzorec: kri - Čas vzorčenja: ob koncu delovne izmene 1.5 mg/l Parameter: o-krezol (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. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	Tolueno
VLA-ED (mg/m ³)	192 mg/m ³
VLA-ED (ppm)	50 ppm
VLA-EC (mg/m ³)	384 mg/m ³
VLA-EC (ppm)	100 ppm
Notes	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLB® (Agente químico que tiene Valor Límite Biológico), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el "Reglamento (CE) nº 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos" (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de diciembre de 2006). Las restricciones de una sustancia pueden aplicarse a todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidas y especifica los usos que se han restringido).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Spain - Biological limit values	
Local name	Tolueno
BLV	0.6 mg/l Parámetro: o-Cresol - Medio: Orina - Momento de muestreo: Final de la jornada laboral - Notas: F (Fondo. El indicador está generalmente presente en cantidades detectables en personas no expuestas laboralmente. Estos niveles de fondo están considerados en el valor VLB) 0.05 mg/l Parámetro: Tolueno - Medio: Sangre - Momento de muestreo: Principio de la última jornada de la semana laboral 0.08 mg/l Parámetro: Tolueno - Medio: orina - Momento de muestreo: Final de la jornada laboral
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Toluen
Nivågränsvärde (NVG) (mg/m ³)	192 mg/m ³
Nivågränsvärde (NVG) (ppm)	50 ppm
Kortidsvärde (KTV) (mg/m ³)	384 mg/m ³

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Toluene (108-88-3)	
Kortidsvärde (KTV) (ppm)	100 ppm
Remark	B (Ämnet kan orsaka hörselskada. Exponering för ämnet nära det befintliga yrkeshygieniska gränsvärdet och vid samtidig exponering för buller nära insatsvärdet 80 dB kan orsaka hörselskada); H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	Toluen
Grenseverdier (AN) (mg/m ³)	94 mg/m ³
Grenseverdier (AN) (ppm)	25 ppm
Remark	H: Kjemikalier som kan tas opp gjennom huden; E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	190 mg/m ³
MAK (ppm)	50 ppm 0.6 ppm toluolo (sangue; fine dell'esposizione / del turno) 0.5 ppm o-cresolo (urina; in caso di esposizione per molto tempo/fine dell'esposizione / del turno)
KZGW (mg/m ³)	760 mg/m ³ max. 4x15 min./turno
KZGW (ppm)	200 ppm max. 4x15 min./turno
Formaldehyde (50-00-0)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Formaldehyde
IOEL TWA	0.37 mg/m ³ (BOEL) 0.62 mg/m ³ (Limit value for the health care, funeral and embalming sectors until 11 July 2024)
IOELV STEL (mg/m ³)	0.74 mg/m ³ (BOEL)
IOELV STEL (ppm)	0.6 ppm (BOEL)
Notes	Dermal sensitisation
Regulatory reference	DIRECTIVE (EU) 2019/983 (amending Directive 2004/37/EC)
EU - Binding Occupational Exposure Limit (BOEL)	
Local name	Formaldehyde
BOEL TWA	0.37 mg/m ³ 0.62 mg/m ³ (Limit value for the health care, funeral and embalming sectors until 11 July 2024)
BOEL TWA [ppm]	0.3 ppm

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Formaldehyde (50-00-0)	
	0.5 ppm (Limit value for the health care, funeral and embalming sectors until 11 July 2024)
BOEL STEL	0.74 mg/m ³
BOEL STEL [ppm]	0.6 ppm
Notes	Dermal sensitisation
Regulatory reference	DIRECTIVE (EU) 2019/983 (amending Directive 2004/37/EC)
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	0.6 mg/m ³
MAK (OEL TWA) [ppm]	0.5 ppm
MAK Short time value [mg/m ³]	0.6 mg/m ³
MAK Short time value [ppm]	0.5 ppm
Remark (AT)	(gemessen als Momentanwert), (H,Sh,III B)
Czech Republic - Occupational Exposure Limits	
Local name	Formaldehyd (Methanal)
Expoziční limit (PEL) (mg/m ³)	0.5 mg/m ³
Expoziční limit (PEL) (ppm)	0.4 ppm
Expoziční limit (NPK-P) (mg/m ³)	1 mg/m ³
Expoziční limit (NPK-P) (ppm)	0.8 ppm
Remark	I - dráždí sliznice (oči, dýchací cesty), respektive kůže, K - karcinogen kategorie 1A a 1B (s větou H350, H350i), S - látka má senzibilizující účinek (s větou H317, H334).
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Formaldehyd (Formalin)
Grænseværdi (8 timer) (mg/m ³)	0.4 mg/m ³
Grænseværdi (8 timer) (ppm)	0.3 ppm
OEL C	0.4 mg/m ³
OEL C [ppm]	0.3 ppm
Remark	K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	Formaldehydi
HTP-arvo (8h) (mg/m ³)	0.37 mg/m ³ (Raja-arvoa sovelletaan 11.7.2021 alkaen)
HTP-arvo (8h) (ppm)	0.3 ppm (Raja-arvoa sovelletaan 11.7.2021 alkaen) 0.5 ppm (Terveysthuolto- sekä hTerveysthuolto sekä hautausja balsamointialoilla sovelletaan ajalla 11.7.2021–11.7.2024)
HTP-arvo (15 min)	0.74 mg/m ³ (Raja-arvoa sovelletaan 11.7.2021 alkaen)

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Formaldehyde (50-00-0)	
HTP-arvo (15 min) (ppm)	0.6 ppm (Raja-arvoa sovelletaan 11.7.2021 alkaen)
Remark	Ihoherkistyminen
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Formaldéhyde (Aldéhyde formique)
VME [mg/m ³]	0.37 mg/m ³ 0.62 mg/m ³ Valeur limite pour les secteurs des soins de santé, des pompes funèbres et de l'embouement jusqu'au 11 juillet 2024
VME (OEL TWA) [ppm]	0.3 ppm 0.5 ppm Valeur limite pour les secteurs des soins de santé, des pompes funèbres et de l'embouement jusqu'au 11 juillet 2024
VLE [mg/m ³]	0.74 mg/m ³
VLE [ppm]	0.6 ppm
Note (FR)	Valeurs réglementaires contraignantes; sensibilisation cutanée; substance classée cancérigène de catégorie 1B et mutagène de catégorie 2; procédé cancérigène cité à l'arrêté du 5 janvier 1993 modifié
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)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Formaldehyd
Occupational exposure limit value (mg/m ³)	0.37 mg/m ³
Occupational exposure limit value (ppm)	0.3 ppm
Peak exposure limitation factor	2(l)
Remark	AGS - Ausschuss für Gefahrstoffe; Sh - Hautsensibilisierender Stoff; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; X - Krebserzeugender Stoff der Kat. 1A oder 1B oder krebserzeugende Tätigkeit oder Verfahren nach § 2 Absatz 3 Nr. 4 der Gefahrstoffverordnung – es ist zusätzlich § 10 GefStoffV zu beachten
Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	FORMALDEHID
AK-érték	0.6 mg/m ³
CK-érték	0.6 mg/m ³
Remark	k(1B) (rákkeltő), b (Bőrön át is felszívódik), m (maró hatású anyag, amely felmarja a bőrt, nyálkahártyát, szemet vagy mindhármát), sz (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat); T (Azok az anyagok, amelyek egészségkárosító hatása TARTÓS expozíciót követően jelentkezik)

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Formaldehyde (50-00-0)	
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	2.5 mg/m ³
OEL (8 hours ref) (ppm)	2 ppm
OEL (15 min ref) (mg/m ³)	2.5 mg/m ³
OEL (15 min ref) (ppm)	2 ppm
Latvia - Occupational Exposure Limits	
Local name	Formaldehīds (metanāls)
OEL TWA	0.37 mg/m ³
OEL TWA (ppm)	0.3 ppm
OEL STEL	0.74 mg/m ³
OEL STEL [ppm]	0.6 ppm
Remark	Viela var izraisīt ādas sensibili-zāciju. Carc. 1B
Regulatory reference	Ministru kabineta 2008. gada 29. septembra noteikumi Nr. 803 (Grozījumi Ministru kabineta 2021. gada 18. februārī noteikumiem Nr. 109)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	0.6 mg/m ³
IPRV (OEL TWA) [ppm]	0.5 ppm
NRV (OEL C)	1 mg/m ³
NRV (OEL C) [ppm]	1.2 ppm
Netherlands - Occupational Exposure Limits	
Local name	Formaldehyde
Grenswaarde TGG 8H (mg/m ³)	0.15 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	0.5 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2021
Poland - Occupational Exposure Limits	
Local name	Formaldehyd
NDS (mg/m ³)	0.37 mg/m ³
NDSch (mg/m ³)	0.74 mg/m ³
Remark	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową). Substancja może mieć działanie uczulające na skórę.
Regulatory reference	Dz. U. 2020 poz. 61
Portugal - Occupational Exposure Limits	

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Formaldehyde (50-00-0)	
Local name	Formaldeído
OEL C	0.3 mg/m ³
OEL C [ppm]	0.3 ppm
Remark	S (Agente com potencial para produzir sensibilização); A2 (Agente carcinogénico confirmado nos animais de laboratorio con relevância desconhecida no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Formaldehyd (metanál)
NPHV (priemerná) (mg/m ³)	0.37 mg/m ³ (TSH)
NPHV (priemerná) (ppm)	0.3 ppm (TSH)
NPHV (OEL STEL)	0.74 mg/m ³ (TSH)
NPHV (OEL STEL) [ppm]	0.6 ppm (TSH)
Remark	Kategória karcinogénov 1B – Pravdepodobný karcinogén; S – senzibilizujúce účinky majú látky, ktoré spôsobujú oveľa vyšší výskyt precitlivosti alergického typu, ako je bežný. Pri práci s nimi je potrebná osobitná opatnosť. Dodržiavanie technických smerných hodnôt nezaručuje, že nevzniknú u vnímavých osôb alergické reakcie (Látka môže spôsobiť senzibilizáciu kože)
Regulatory reference	Nariadenie vlády č. 356/2006 Z. z. (235/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	formaldehid
OEL TWA	0.37 mg/m ³ 0.62 mg/m ³
OEL TWA [ppm]	0.3 ppm 0.5 ppm
OEL STEL	0.74 mg/m ³
OEL STEL [ppm]	0.6 ppm
Remark	EU, K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), SK (Snov lahko povzroči preobčutljivost kože)
Regulatory reference	Uradni list RS, št. 79/2019 z dne 24.12.2019
Spain - Occupational Exposure Limits	
Local name	Formaldehído
VLA-ED (mg/m ³)	0.37 mg/m ³
VLA-ED (ppm)	0.3 ppm
VLA-EC (mg/m ³)	0.74 mg/m ³
VLA-EC (ppm)	0.6 ppm
Notes	C1B (Supuesto carcinógeno para el hombre), Sen (Sensibilizante), s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como

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Formaldehyde (50-00-0)	
	biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf .
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Formaldehyd
Nivågränsvärde (NVG) (mg/m ³)	0.37 mg/m ³
Nivågränsvärde (NVG) (ppm)	0.3 ppm
Kortidsvärde (KTV) (mg/m ³)	0.74 mg/m ³
Kortidsvärde (KTV) (ppm)	0.6 ppm
TGV (OEL C)	0.74 mg/m ³
TGV (OEL C) [ppm]	0.6 ppm
Remark	C (Ämnet är cancerframkallande. Risk för cancer finns även vid annan exponering än via inandning. För vissa cancerframkallande ämnen som inte har gränsvärden gäller förbud eller tillståndskrav enligt föreskrifterna om kemiska arbetsmiljörisker); H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga); S (Ämnet är sensibiliserande. Sensibiliserande ämnen kan ge allergi eller annan överkänslighet. Överkänslighetsbesvären drabbar främst huden eller andningsorganen. Överkänslighet innebär att man reagerar vid kontakt med ämnen som normalt inte ger besvär. Allergi är en undergrupp av överkänslighet som orsakas av reaktioner i kroppens immunsystem. Särskilt låga gränsvärden har fastställts för ämnen med mer uttalat luftvägssensibiliserande egenskaper. Några ämnen med starkt sensibiliserande egenskaper får endast hanteras efter tillstånd från Arbetsmiljöverket, se föreskrifterna om kemiska arbetsmiljörisker. Dessa ämnen har inga gränsvärden men i vissa fall riktvärden)
Regulatory reference	Hygieniska gränsvärden (AFS 2020:6)
Norway - Occupational Exposure Limits	
Local name	Formaldehyd
Grenseverdier (AN) (mg/m ³)	0.6 mg/m ³
Grenseverdier (AN) (ppm)	0.5 ppm
Takverdi (OEL C) [1]	1.2 mg/m ³
Takverdi (OEL C) [2]	1 ppm
Remark	A: Kjemikalier som skal betraktes som at de fremkaller allergi eller annen overfølsomhet i øynene eller luftveier, eller som skal betraktes som at de fremkaller allergi ved hudkontakt; K: Kjemikalier som skal betraktes som kreftfremkallende.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	0.37 mg/m ³

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Formaldehyde (50-00-0)	
MAK (ppm)	0.3 ppm
KZGW (mg/m ³)	0.74 mg/m ³
KZGW (ppm)	0.6 ppm
cumene (98-82-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-Phenylpropane (Cumene)
IOEL TWA	100 mg/m ³
IOEL TWA [ppm]	10 ppm
IOELV STEL (mg/m ³)	250 mg/m ³ 250 mg/m ³
IOELV STEL (ppm)	50 ppm 50 ppm
Notes	Skin. During exposure monitoring, account should be taken of relevant biological monitoring values as suggested by the Scientific Committee on Occupational Exposure Limits for Chemicals Agents (SCOEL) Skin. During exposure monitoring, account should be taken of relevant biological monitoring values as suggested by the Scientific Committee on Occupational Exposure Limits for Chemicals Agents (SCOEL)
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831 COMMISSION DIRECTIVE (EU) 2019/1831
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	100 mg/m ³ (H)
MAK (OEL TWA) [ppm]	20 ppm (H)
MAK Short time value [mg/m ³]	250 mg/m ³ max. 4x15 min./Schicht, (H)
MAK Short time value [ppm]	50 ppm max. 4x15 min./Schicht, (H)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	100 mg/m ³
Limit value [ppm]	20 ppm
Short time value [mg/m ³]	250 mg/m ³
Short time value [ppm]	50 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	
Local name	Kumen (Isopropylbenzen)
Expoziční limity (PEL) (mg/m ³)	100 mg/m ³
Expoziční limity (PEL) (ppm)	20 ppm
Expoziční limity (NPK-P) (mg/m ³)	250 mg/m ³

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cumene (98-82-8)	
Expoziční limity (NPK-P) (ppm)	50 ppm
Remark	D - při expozici se významně uplatňuje pronikání faktoru kůží.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Isopropylbenzen (Cumen)
Grænseværdi (8 timer) (mg/m ³)	50 mg/m ³
Grænseværdi (8 timer) (ppm)	10 ppm
Grænseværdi (STEL) (mg/m ³)	200 mg/m ³
Grænseværdi (STEL) (ppm)	40 ppm
Remark	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	Kumeeni
HTP-arvo (8h) (mg/m ³)	50 mg/m ³
HTP-arvo (8h) (ppm)	10 ppm
HTP-arvo (15 min)	250 mg/m ³
HTP-arvo (15 min) (ppm)	50 ppm
Remark	Iho
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Cumène (Isopropylbenzène)
VME [mg/m ³]	100 mg/m ³
VME (OEL TWA) [ppm]	20 ppm
VLE [mg/m ³]	250 mg/m ³
VLE [ppm]	50 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487; Décret n° 2020-1546; Décret n°2021-434)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Cumol
Occupational exposure limit value (mg/m ³)	50 mg/m ³
Occupational exposure limit value (ppm)	10 ppm
Limitation of exposure peaks (mg/m ³)	250 mg/m ³

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cumene (98-82-8)	
Limitation of exposure peaks (ppm)	50 ppm
Peak exposure limitation factor	4(II)
Remark	H - hautresorptiv; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; AGS - Ausschuss für Gefahrstoffe; EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission)
Regulatory reference	TRGS900
Germany - Biological limit values (TRGS 903)	
Biological limit value	2 mg/l Isopropylbenzol (Blut; Expositionsende bzw. Schichtende) 50 mg/l 2-Phenylpropan-2-ol (Urin; Expositionsende bzw. Schichtende)
Hungary - Occupational Exposure Limits	
Local name	KUMOL
AK-érték	50 mg/m ³
CK-érték	250 mg/m ³
Remark	b (Bőrön át is felszívódik), i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármat); R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkezik)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	100 mg/m ³
OEL (8 hours ref) (ppm)	20 ppm
OEL (15 min ref) (mg/m ³)	250 mg/m ³
OEL (15 min ref) (ppm)	50 ppm
Italy - Occupational Exposure Limits	
Local name	Cumene
OEL TWA	100 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	250 mg/m ³
OEL STEL (ppm)	50 ppm
Remark	Cute
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Kumols (izopropilbenzols, propilbenzols)
OEL TWA	100 mg/m ³

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cumene (98-82-8)	
OEL TWA (ppm)	20 ppm
OEL STEL	250 mg/m ³
OEL STEL [ppm]	50 ppm
Remark	Āda, letekme uz dzirdi
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2015. gada 7. aprīlī noteikumiem Nr. 163)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	120 mg/m ³
IPRV (OEL TWA) [ppm]	25 ppm
TPRV (mg/m ³)	170 mg/m ³
TPRV (ppm)	35 ppm
Netherlands - Occupational Exposure Limits	
Local name	Cumeen
Grenswaarde TGG 8H (mg/m ³)	100 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	250 mg/m ³
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 2021
Poland - Occupational Exposure Limits	
Local name	Kumen (izopropylobenzen)
NDS (mg/m ³)	100 mg/m ³
NDSCh (mg/m ³)	250 mg/m ³
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	Cumeno
OEL TWA [ppm]	50 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Izopropylbenzén (kumén)
NPHV (priemerná) (mg/m ³)	100 mg/m ³
NPHV (priemerná) (ppm)	20 ppm

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cumene (98-82-8)	
NPHV (OEL STEL)	250 mg/m ³
NPHV (OEL STEL) [ppm]	50 ppm
Remark	K - znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	kumen
OEL TWA	100 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	250 mg/m ³
OEL STEL [ppm]	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 (Biolóška mejna vrednost), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Slovenia - Biological limit values	
Local name	kumen
BLV	10 mg/g creatinine Parameter: 2-fenil- 2- propanol (po hidrolizi) - Biološki vzorec: urin - Čas vzorčenja: ob koncu delovne izmene
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	Cumeno
VLA-ED (mg/m ³)	50 mg/m ³
VLA-ED (ppm)	10 ppm
VLA-EC (mg/m ³)	250 mg/m ³
VLA-EC (ppm)	50 ppm
Notes	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo), VLB® (Agente químico que tiene Valor Límite Biológico).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Isopropylbensen (Kumen)
Nivågränsvärde (NVG) (mg/m ³)	50 mg/m ³
Nivågränsvärde (NVG) (ppm)	10 ppm

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cumene (98-82-8)	
Kortidsvärde (KTV) (mg/m ³)	250 mg/m ³
Kortidsvärde (KTV) (ppm)	50 ppm
Remark	H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga)
Regulatory reference	Hygieniska gränsvärden (AFS 2020:6)
Norway - Occupational Exposure Limits	
Local name	1-metyletylbenzen (Kumen)
Grenseverdier (AN) (mg/m ³)	100 mg/m ³
Grenseverdier (AN) (ppm)	20 ppm
Korttidsverdi (OEL STEL)	250 mg/m ³
Korttidsverdi (OEL STEL) [ppm]	50 ppm
Remark	H: Kjemikalier som kan tas opp gjennom huden; K: Kjemikalier som skal betraktes som kreftfremkallende; E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	245 mg/m ³
MAK (ppm)	50 ppm
KZGW (mg/m ³)	980 mg/m ³
KZGW (ppm)	200 ppm
Hexachlorobenzene (118-74-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Hexachlorobenzene
Notes	Skin. (Year of adoption 2016) Skin. (Year of adoption 2016)
Regulatory reference	SCOEL Recommendations SCOEL Recommendations
EU - Biological Limit Value (BLV)	
Local name	Hexachlorobenzene
BLV	150 µg/l Parameter: hexachlorobenzene - Medium: serum or plasma
Regulatory reference	SCOEL List of recommended health-based BLVs and BGVs
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	0.002 mg/m ³
Remark (BE)	C, D
Czech Republic - Occupational Exposure Limits	
Local name	Hexachlorbenzen

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Hexachlorobenzene (118-74-1)	
Expoziční limity (PEL) (mg/m ³)	0.02 mg/m ³
Expoziční limity (PEL) (ppm)	0.0017 ppm
Expoziční limity (NPK-P) (mg/m ³)	0.1 mg/m ³
Expoziční limity (NPK-P) (ppm)	0.0084 ppm
Remark	D - při expozici se významně uplatňuje pronikání faktoru kůží, K - karcinogen kategorie 1A a 1B (s větou H350, H350i).
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Hexachlorbenzen
Grænseværdi (8 timer) (mg/m ³)	0.025 mg/m ³
Remark	H (betyder, at stoffet kan optages gennem huden); K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	Heksaklooribentseeni
HTP-arvo (8h) (mg/m ³)	0.002 mg/m ³
Remark	Iho
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden tutkimuskeskus)
Latvia - Occupational Exposure Limits	
Local name	Heksahlorbenzols
OEL TWA	0.9 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	0.9 mg/m ³
Netherlands - Occupational Exposure Limits	
Local name	Hexachloorbenzeen
Grenswaarde TGG 8H (mg/m ³)	0.006 mg/m ³
Remark	Kankerverwekkende stof. H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Regulatory reference	Arbeidsomstandighedenregeling 2021
Poland - Occupational Exposure Limits	
Local name	Heksachlorobenzen
NDS (mg/m ³)	0.003 mg/m ³ frakcja wdychalna

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Hexachlorobenzene (118-74-1)	
Remark	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. 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	Hexaclorobenzeno
OEL TWA (mg/m ³)	0.002 mg/m ³
Remark	P (Toxicidade percutânea); A3 (Agente carcinogénico confirmado nos animais de laboratorio con relevância desconhecida no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovenia - Biological limit values	
Local name	heksaklorobenzen
BLV	150 µg/l Parameter: heksaklorobenzen - Biološki vzorec: plazma/serum - Čas vzorčenja: ni pomembno
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	Hexaclorobenceno
VLA-ED (mg/m ³)	0.002 mg/m ³
Notes	C1B (Supuesto carcinógeno para el hombre), vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), ae (Alterador endocrino. Hay una serie de sustancias utilizadas en la industria, la agricultura y los bienes de consumo de las que se sospecha que interfieren con los sistemas endocrinos de los seres humanos y de los animales y que son causantes de perjuicios para la salud como el cáncer, alteraciones del comportamiento y anomalías en la reproducción. Tales sustancias se denominan “alteradores endocrinos”. [Aplicación de la estrategia comunitaria en materia de alteradores endocrinos-sustancias de las que se sospecha interfieren en los sistemas hormonales de seres humanos y animales-COM (1999) 706. Comisión de las Comunidades Europeas, COM (2001) 262 final, Bruselas 14.06.2001]. En el caso del ser humano, algunas vías posibles de exposición a alteradores endocrinos son la exposición directa en el lugar de trabajo o a través de productos de consumo como alimentos, ciertos plásticos, pinturas, detergentes y cosméticos, o indirecta a través del medio ambiente (aire, agua y suelo). [Estrategia comunitaria en materia de alteradores endocrinos (sustancias de las que se sospecha interfieren en los sistemas hormonales de seres humanos y animales). Comisión de las Comunidades Europeas, COM (1999) 706 final, Bruselas 17.12.1999]. Los valores límite asignados a estos agentes no se han establecido para prevenir los posibles efectos de alteración endocrina, lo cual justifica una vigilancia adecuada de la salud), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el “Reglamento (CE) nº 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos” (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de

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Hexachlorobenzene (118-74-1)	
	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), 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: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	10 mg/m ³
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	2 mg/m ³
Denmark - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-cresol (Butylhydroxytoluen)
Grænseværdi (8 timer) (mg/m ³)	10 mg/m ³
Finland - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyli-p-kresoli
HTP-arvo (8h) (mg/m ³)	10 mg/m ³
HTP-arvo (15 min)	20 mg/m ³
France - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-crésol
VME [mg/m ³]	10 mg/m ³
Note (FR)	Valeurs recommandées/admises
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	2,6-Di-tert-butyl-p-kresol
Occupational exposure limit value (mg/m ³)	10 mg/m ³ E (mg/m ³)
Remark	DFG, Y, 11
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	10 mg/m ³
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m ³)	10 mg/m ³
Remark	valeur limite de l'air
Portugal - Occupational Exposure Limits	

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2,6-di-tert-butyl-4-methylphenol (128-37-0)	
Local name	Hidroxitoluenobutilado (2,6-Di-terc-butil-p-cresol) (BHT)
OEL TWA (mg/m ³)	2 mg/m ³ FIV (Fração inalável e vapor)
Slovenia - Occupational Exposure Limits	
Local name	2,6-di-terc-butil-p-krezol
OEL TWA	10 mg/m ³
Spain - Occupational Exposure Limits	
Local name	2,6-Diterc-butil-p-cresol
VLA-ED (mg/m ³)	10 mg/m ³
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	10 mg/m ³
Remark	(einatembarer Staub)
Silicon dioxide (cristobalite) (14808-60-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Silica crystalline (Quartz)
IOEL TWA	0.05 mg/m ³ (respirable dust)
Notes	(Year of adoption 2003)
Regulatory reference	SCOEL Recommendations
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	0.15 mg/m ³
Remark (AT)	(alveolengängige Fraktion; Jahres-Miw)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	0.1 mg/m ³
Remark (BE)	(poussières alvéolaires)
Denmark - Occupational Exposure Limits	
Local name	Kvarts
Grænseværdi (8 timer) (mg/m ³)	0.3 mg/m ³ total 0.1 mg/m ³ total, respirabel
Grænseværdi (STEL) (mg/m ³)	0.6 mg/m ³ (inhalable aerosol) 0.2 mg/m ³ (K, respirable aerosol)
Remark	E (betyder, at stoffet har en EF-grænseværdi); K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	Kvartsi
HTP-arvo (8h) (mg/m ³)	0.05 mg/m ³ alveolijae

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Silicon dioxide (cristobalite) (14808-60-7)	
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Silice (poussières alvéolaires de quartz)
VME [mg/m ³]	0.1 mg/m ³
Note (FR)	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)
Hungary - Occupational Exposure Limits	
AK-érték	0.15 mg/m ³
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	0.1 mg/m ³
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	0.1 mg/m ³
Netherlands - Occupational Exposure Limits	
Local name	Respirabel kristallijn silicastof: – kwarts
Grenswaarde TGG 8H (mg/m ³)	0.075 mg/m ³ Respirabele fractie
Remark	Kankerverwekkende stof
Regulatory reference	Arbeidsomstandighedenregeling 2021
Poland - Occupational Exposure Limits	
Local name	Krzemionka krystaliczna – kwarc
NDS (mg/m ³)	0.1 mg/m ³ frakcja respirabilna
Remark	Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Silica, cristalina α-Quartzo
OEL TWA (mg/m ³)	0.025 mg/m ³ R (Fração respirável)
Remark	A2 (Agente carcinogénico confirmado nos animais de laboratorio con relevância desconhecida no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Oxid kremičitý, kryštalický
NPHV (priemerná) (mg/m ³)	0.1 mg/m ³ respirabilná frakcia (TSH)
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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Silicon dioxide (cristobalite) (14808-60-7)	
Spain - Occupational Exposure Limits	
Local name	Sílíce Cristalina: Cuarzo
VLA-ED (mg/m ³)	0.1 mg/m ³ Fracción respirable 0.05 mg/m ³ Fracción respirable. Entrada en vigor en enero de 2022
Notes	v (Agente cancerígeno con valor límite vinculante recogido en el anexo III del Real Decreto 665/1997 y en sus modificaciones posteriores), d (Véase UNE EN 481: Atmósferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles), y (Reclasificado, por la International Agency for Research on Cancer (IARC) de grupo 2A (probablemente carcinogénico en humanos) a grupo 1 (carcinogénico en humanos)).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Kvarts
Nivågränsvärde (NVG) (mg/m ³)	0.1 mg/m ³ respirabel fraktion; Se även: Kristobalitt och Tridymitt
Remark	C (Ämnet är cancerframkallande. Risk för cancer finns även vid annan exponering än via inandning. För vissa cancerframkallande ämnen som inte har gränsvärden gäller förbud eller tillståndskrav enligt föreskrifterna om kemiska arbetsmiljörisiker); M (Medicinska kontroller kan krävas för hantering av ämnet. Se vidare föreskrifterna om medicinska kontroller i arbetslivet. För vissa ämnen ska arbetsgivaren erbjuda läkarundersökning och för andra ämnen gäller krav på periodisk läkarundersökning och tjänstbarhetsbedömning); 3 (Den respirabla fraktionen är de inhalerbara partiklar som når längst ner i luftvägarna, till alveolerna i lungorna)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	Krystallinsk silika (SiO ₂), α-kvarts
Grenseverdier (AN) (mg/m ³)	0.3 mg/m ³ Totalstøv 0.1 mg/m ³ Respirabelt støv
Remark	K: Kjemikalier som skal betraktes som kreftfremkallende; G: EU har fastsatt en bindende grenseverdi for stoffet; 7) Støv som inneholder α-kvarts, kristobalitt og/eller tridymitt vurderes ut fra summasjonsformel. Samtidig må verdiene for sjenerende støv overholdes.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	0.15 mg/m ³
Remark	(respirable aerosol)
zinc sulphide (1314-98-3)	
Latvia - Occupational Exposure Limits	
Local name	Cinka sulfīds
OEL TWA	5 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)

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zinc sulphide (1314-98-3)

Lithuania - Occupational Exposure Limits

IPRV (mg/m ³)	5 mg/m ³
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8.1.2. Recommended monitoring procedures

No data available

8.1.3. Air contaminants formed

No data available

8.1.4. DNEL and PNEC

No data available

8.1.5. Control banding

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Avoid dispersal of dust in the air (i.e. clearing dust surfaces with compressed air). Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

None under normal use. In case of dust production: protective goggles. EN166

8.2.2.2. Skin protection

Hand protection:

Wear suitable gloves resistant to chemical penetration. nitrile rubber gloves. EN 374

8.2.2.3. Respiratory protection

Respiratory protection:

None under normal use

8.2.2.4. Thermal hazards

No data available

8.2.3. Environmental exposure controls

Other information:

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Variable.
Appearance	: A solid crayon-like marker.
Odour	: Slight, vegetable oil.
Odour threshold	: Not available
Melting point	: 66 °C
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available

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Explosive limits	: Not applicable
Lower explosive limit (LEL)	: Not applicable
Upper explosive limit (UEL)	: Not applicable
Flash point	: 204 °C
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: insoluble in water.
Log Kow	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20 °C	: Not applicable
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle aggregation state	: Not available
Particle agglomeration state	: Not available
Particle specific surface area	: Not available
Particle dustiness	: Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No data available

9.2.2. Other safety characteristics

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization may occur.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Aldehydes.

SECTION 11: Toxicological information

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

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

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Limestone (1317-65-3)	
LD50 Oral rat	6450 mg/kg
Aluminum oxide (1344-28-1)	
LD50 Oral rat	> 15900 mg/kg
LC50 Inhalation rat	7.6 mg/l/4h
rosin (8050-09-7)	
LD50 Oral rat	2800 mg/kg
LD50 Dermal rat	> 2000 mg/kg
Cobalt Hydroxide (21041-93-0)	
LD50 Oral rat	1060 mg/kg bodyweight
LD50 Dermal rat	> 2000 mg/kg bodyweight
aluminium powder (pyrophoric) (7429-90-5)	
LD50 Oral rat	> 15900 mg/kg bodyweight
LC50 Inhalation rat (dust/mist)	> 10 mg/l/4h
Paraffin waxes (8002-74-2)	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rat	> 2000 mg/kg
Silicon dioxide (amorphous) (112926-00-8)	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat	> 58.8 mg/l/4h
Iron oxide red (1309-37-1)	
LD50 Oral rat	> 10000 mg/kg
LD50 Dermal rat	5500 mg/kg
LC50 Inhalation rat	5.05 mg/l/4h
4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)	
LD50 Oral rat	> 15000 mg/kg
LC50 Inhalation rat	> 1580 mg/m ³ 4 h
butanone oxime (96-29-7)	
LD50 Oral rat	> 900 mg/kg
LD50 Dermal rabbit	> 1000 mg/kg
LC50 Inhalation rat	> 4.83 mg/l/4h
Distillates (petroleum), hydrotreated light (64742-47-8)	

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Distillates (petroleum), hydrotreated light (64742-47-8)	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat (dust/mist)	> 5.28 mg/l/4h
Stoddard solvent (benzene < 0.1%) (8052-41-3)	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat	> 10 mg/l/4h
Calcium carbonate (471-34-1)	
LD50 Oral rat	> 2000 mg/kg
LD50 Dermal rat	> 2000 mg/kg
LC50 Inhalation rat	> 3 mg/l/4h
cobalt bis(2-ethylhexanoate) (136-52-7)	
LD50 Oral rat	3129 (1750 – 5000) mg/l
LD50 Dermal rat	> 2000 mg/kg
Titanium dioxide (13463-67-7)	
LD50 Oral rat	> 5000 mg/kg
LC50 Inhalation rat	> 6.82 mg/l/4h
Carbon black (1333-86-4)	
LD50 Oral rat	> 8000 mg/kg
LC50 Inhalation rat	> 4.6 mg/m ³ 4 h
ethylbenzene (100-41-4)	
LD50 Oral rat	3500 mg/kg
LD50 Dermal rabbit	17.8 ml/kg
LC50 Inhalation rat [ppm]	< 1500 ppm
Toluene (108-88-3)	
LD50 Oral rat	5580 mg/kg EU Method B.
LC50 Inhalation rat	> 20 mg/l/4h OECD Guideline 403
Formaldehyde (50-00-0)	
LC50 Inhalation rat [ppm]	31.7 ppm
cumene (98-82-8)	
LD50 Oral rat	4000 mg/kg
LD50 Dermal rabbit	10600 mg/kg
LC50 Inhalation rat	22.1 mg/l

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cumene (98-82-8)	
LC50 Inhalation rat [ppm]	4510 ppm/4h
Hexachlorobenzene (118-74-1)	
LD50 Oral rat	3500 mg/kg
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
LD50 Oral rat	890 mg/kg
LD50 Dermal rat	> 2000 mg/kg
zinc sulphide (1314-98-3)	
LD50 Oral rat	> 15000 mg/kg
LC50 Inhalation rat	> 5410 mg/m ³ read-across Zinc
Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS	: 1.75% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) : 1.75% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) : 1.75% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified. (The chemicals used are not available in the physical form known to cause cancer.)
Silicon dioxide (amorphous) (112926-00-8)	
IARC group	3 - Not classifiable
Iron oxide red (1309-37-1)	
IARC group	3 - Not classifiable
Titanium dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans
Carbon black (1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans, Inhalation of dust
ethylbenzene (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans
Toluene (108-88-3)	
IARC group	3 - Not classifiable
Formaldehyde (50-00-0)	
IARC group	1 - Carcinogenic to humans
cumene (98-82-8)	
IARC group	2B - Possibly carcinogenic to humans
Hexachlorobenzene (118-74-1)	

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Hexachlorobenzene (118-74-1)	
IARC group	2B - Possibly carcinogenic to humans
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
IARC group	3 - Not classifiable
Silicon dioxide (cristobalite) (14808-60-7)	
IARC group	1 - Carcinogenic to humans
butanone oxime (96-29-7)	
NOAEL (chronic, oral, animal/male, 2 years)	270 mg/kg bodyweight mg/m3
NOAEL (chronic, oral, animal/female, 2 years)	1350 mg/kg bodyweight mg/m3
Titanium dioxide (13463-67-7)	
NOAEL (chronic, oral, animal/male, 2 years)	5 mg/kg bodyweight rat
Additional information	Carcinogen, cat 1A or 1B. Inhalation of dust
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
butanone oxime (96-29-7)	
STOT-single exposure	Causes damage to organs (upper respiratory tract). May cause drowsiness or dizziness.
Toluene (108-88-3)	
STOT-single exposure	May cause drowsiness or dizziness.
cumene (98-82-8)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
butanone oxime (96-29-7)	
STOT-repeated exposure	May cause damage to organs (blood system) through prolonged or repeated exposure.
Stoddard solvent (benzene < 0.1%) (8052-41-3)	
STOT-repeated exposure	Causes damage to organs (central nervous system) through prolonged or repeated exposure.
ethylbenzene (100-41-4)	
STOT-repeated exposure	May cause damage to organs (hearing organs) through prolonged or repeated exposure.
Toluene (108-88-3)	
LOAEC (inhalation, rat, gas, 90 days)	1250 ppmv/6h/day
NOAEL (oral, rat, 90 days)	625 mg/kg bodyweight/day EU Method B.26.
NOAEC (inhalation, rat, gas, 90 days)	300 ppmv/6h/day OECD Guideline 453
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Hexachlorobenzene (118-74-1)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

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

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : None known

11.2.2. Other information

Other information : No data available

SECTION 12: Ecological information

12.1. Toxicity

Unknown hazards to the aquatic environment (CLP) : Contains 1.82 % of components with unknown hazards to the aquatic environment

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

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

Limestone (1317-65-3)

LC50 fish 1	> 200 mg/l
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Aluminum oxide (1344-28-1)

EC50 crustacea	1470 mg/l
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NOEC (acute)	50 mg/l
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rosin (8050-09-7)

LC50 fish 1	< 10 mg/l 96 h
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EC50 crustacea	911 mg/l 48 h
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Cobalt Hydroxide (21041-93-0)

LC50 fish 1	≥ 275 mg/l
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EC50 crustacea	2.6 mg/l
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NOEC (acute)	99 mg/l
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Paraffin waxes (8002-74-2)

LC50 fish 1	> 1000 mg/l
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Silicon dioxide (amorphous) (112926-00-8)

LC50 fish 1	> 10000 mg/l
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EC50 crustacea	> 1000 mg/l
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Iron oxide red (1309-37-1)

EC50 crustacea	> 100 mg/l
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4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)

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4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)

LC50 fish 1	> 500 mg/l 96 h
EC50 crustacea	> 110 mg/l 48 h

butanone oxime (96-29-7)

LC50 fish 1	> 100 mg/l 96 h
EC50 crustacea	201 mg/l 48 h

Calcium carbonate (471-34-1)

LC50 fish 1	> 100 % v/v, 96 h
EC50 crustacea	> 100 % v/v, 48 h

cobalt bis(2-ethylhexanoate) (136-52-7)

LC50 fish 1	275 mg/l 96 h
EC50 crustacea	0.441 mg/l 48 h
LOEC (chronic)	0.43 mg/l 34 days read-across cobalt dichloride
NOEC (chronic)	0.21 mg/l 34 days read-across cobalt dichloride

ethylbenzene (100-41-4)

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

Toluene (108-88-3)

LC50 fish 1	5.5 mg/l
EC50 - Crustacea [2]	3.78 mg/l
ErC50 algae	134 mg/l
LOEC (chronic)	2.77 mg/l
NOEC chronic fish	1.39 mg/l
NOEC chronic crustacea	0.74 mg/l

Formaldehyde (50-00-0)

LC50 fish 1	31.8 (21.1 – 47.7) mg/l 96 h
EC50 crustacea	1.9 mg/l 48 h

cumene (98-82-8)

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

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

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2,6-di-tert-butyl-4-methylphenol (128-37-0)	
LC50 fish 1	0.199 mg/l 96 h
EC50 crustacea	0.48 mg/l 48 h
EC50 72h - Algae [1]	0.228 mg/l 96 h
NOEC (acute)	0.15 mg/l 48 h

zinc sulphide (1314-98-3)	
LC50 fish 1	> 0.25 mg/l 96 h
EC50 crustacea	> 29 µg/l 48 h

12.2. Persistence and degradability

Paintstik® Original B Jumbo White, Hex White, Fine White, Hex Yellow, 16 Black, 16 Blue, 16 Orange, 16 White, 16 Yellow, Fine Yellow, Aluminum, Black, Blue, Green, Gray, Orange, Pink, Purple, Red, Silver, White, Yellow, Fluorescent Yellow, Fluorescent Red, Fluorescent Green, Fluorescent Blue, Fluorescent Orange, Fluorescent Pink

Persistence and degradability	Not established.
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Limestone (1317-65-3)	
Persistence and degradability	Not readily biodegradable.

rosin (8050-09-7)	
Biodegradation	71 % 28 d

Silicon dioxide (amorphous) (112926-00-8)	
Persistence and degradability	Product persists.

4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	0 % 28 d

butanone oxime (96-29-7)	
Biodegradation	70 % 18 d

cobalt bis(2-ethylhexanoate) (136-52-7)	
Persistence and degradability	Readily biodegradable.

Carbon black (1333-86-4)	
Persistence and degradability	Not readily biodegradable.

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

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

Formaldehyde (50-00-0)	
Persistence and degradability	Readily biodegradable.

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cumene (98-82-8)	
Persistence and degradability	May cause long-term adverse effects in the environment.
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
Persistence and degradability	Product persists.
12.3. Bioaccumulative potential	
Paintstik® Original B Jumbo White, Hex White, Fine White, Hex Yellow, 16 Black, 16 Blue, 16 Orange, 16 White, 16 Yellow, Fine Yellow, Aluminum, Black, Blue, Green, Gray, Orange, Pink, Purple, Red, Silver, White, Yellow, Fluorescent Yellow, Fluorescent Red, Fluorescent Green, Fluorescent Blue, Fluorescent Orange, Fluorescent Pink	
Bioaccumulative potential	Not established.
Limestone (1317-65-3)	
Bioaccumulative potential	Does not biaccumulate significantly.
rosin (8050-09-7)	
Log Pow	3 (3 – 6.2)
4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)	
BCF fish 1	53 l/kg
Log Pow	1.28
butanone oxime (96-29-7)	
Log Pow	0.63
Distillates (petroleum), hydrotreated light (64742-47-8)	
Log Kow	2.1 – 5
Bioaccumulative potential	Bioaccumulative potential.
Stoddard solvent (benzene < 0.1%) (8052-41-3)	
Log Pow	3.16 – 7.15
cobalt bis(2-ethylhexanoate) (136-52-7)	
BCF fish 1	2300 (2300 – 3900)
ethylbenzene (100-41-4)	
Bioaccumulative potential	Not established.
Toluene (108-88-3)	
Bioconcentration factor (BCF REACH)	90
Log Kow	2.73
Formaldehyde (50-00-0)	
BCF fish 1	< 1
Log Pow	0.35

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cumene (98-82-8)	
Bioaccumulative potential	Not established.
Hexachlorobenzene (118-74-1)	
Log Pow	5 – 6.92
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
Bioconcentration factor (BCF REACH)	2500
Log Pow	4.17
Bioaccumulative potential	Expected to bioaccumulate.

12.4. Mobility in soil

Paintstik® Original B Jumbo White, Hex White, Fine White, Hex Yellow, 16 Black, 16 Blue, 16 Orange, 16 White, 16 Yellow, Fine Yellow, Aluminum, Black, Blue, Green, Gray, Orange, Pink, Purple, Red, Silver, White, Yellow, Fluorescent Yellow, Fluorescent Red, Fluorescent Green, Fluorescent Blue, Fluorescent Orange, Fluorescent Pink	
Ecology - soil	No data available.
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
Mobility in soil	low
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.36

12.5. Results of PBT and vPvB assessment

Paintstik® Original B Jumbo White, Hex White, Fine White, Hex Yellow, 16 Black, 16 Blue, 16 Orange, 16 White, 16 Yellow, Fine Yellow, Aluminum, Black, Blue, Green, Gray, Orange, Pink, Purple, Red, Silver, White, Yellow, Fluorescent Yellow, Fluorescent Red, Fluorescent Green, Fluorescent Blue, Fluorescent Orange, Fluorescent Pink	
PBT: not yet assessed	
vPvB: not yet assessed	
Component	
Cobalt Hydroxide (21041-93-0)	PBT: not relevant – no registration required vPvB: not relevant – no registration required
Toluene (108-88-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : None known

12.7. Other adverse effects

Additional information : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
European List of Waste (LoW) code : For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
HP Code : HP13 - "Sensitising:" waste which contains one or more substances known to cause

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sensitising effects to the skin or the respiratory organs.

SECTION 14: Transport information

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

14.1. UN number or ID number

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

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

ADR

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

IMDG

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

IATA

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

ADN

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

RID

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

14.4. Packing group

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

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated.

Transport by sea

Not regulated.

Air transport

Not regulated.

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Inland waterway transport

Not regulated.

Rail transport

Not regulated.

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

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
28.	Formaldehyde ; Hexachlorobenzene	Substances which are classified as carcinogen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 1 or Appendix 2, respectively.
3(a)	Stoddard solvent (benzene < 0.1%) ; ethylbenzene ; Toluene ; cumene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	Stoddard solvent (benzene < 0.1%) ; butanone oxime ; Distillates (petroleum), hydrotreated light ; ethylbenzene ; Toluene ; cumene ; Formaldehyde	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	Toluene ; cumene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
40.	Stoddard solvent (benzene < 0.1%) ; aluminium powder (pyrophoric) ; ethylbenzene ; Toluene ; cumene	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.
48.	Toluene	Toluene
72.	Formaldehyde	The substances listed in column 1 of the Table in Appendix 12

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Substances subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals: Hexachlorobenzene (118-74-1)

Contains substance(s) subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants: Hexachlorobenzene (118-74-1)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

VOC content : 0 %

15.1.2. National regulations

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

France	
Occupational diseases	
Code	Description
RG 4 BIS	Gastrointestinal disorders caused by benzene, toluene, xylenes and all products containing them
RG 9	Diseases caused by halogenated derivatives of aromatic hydrocarbons
RG 43	Diseases caused by formaldehyde and its polymers
RG 43 BIS	Cancerous conditions caused by formaldehyde
RG 65	Eczematiform lesions of allergic mechanism
RG 66	Occupational rhinitis and asthma
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

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

ABM category : Z(2) - biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/reprotoxicity/bioacumulative potential or toxicity)
SZW-lijst van kankerverwekkende stoffen : Stoddard solvent (benzene < 0.1%),Paraffin waxes, butanone oxime, Distillates (petroleum), hydrotreated light, Formaldehyde, Hexachlorobenzene, Silicon dioxide (cristobalite), rosin are listed
SZW-lijst van mutagene stoffen : Stoddard solvent (benzene < 0.1%), Paraffin waxes, Distillates (petroleum), hydrotreated light, rosin are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : Hexachlorobenzene is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : Hexachlorobenzene is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : Toluene, Hexachlorobenzene are listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

Switzerland

Storage class (LK) : LK 11/13 - Solids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes:

Paintstik® Original B Jumbo White, Hex White, Fine White, Hex Yellow, 16 Black, 16 Blue, 16 Orange, 16 White, 16 Yellow, Fine Yellow, Aluminum, Black, Blue, Green, Gray, Orange, Pink, Purple, Red, Silver, White, Yellow, Fluorescent Yellow, Fluorescent Red, Fluorescent Green, Fluorescent Blue, Fluorescent Orange, Fluorescent Pink

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Added. Product.

Abbreviations and acronyms:	
	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	PBT: Persistent, Bioaccumulative, Toxic
	TWA: Time Weighted Average
	TSCA: Toxic Substances Control Act

Data sources

: ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

Full text of H- and EUH-statements:	
	(Jumbo White, Hex White, Hex Yellow, 16 Blue, 16 Orange, 16 White, 16 Yellow, Fine Yellow, Blue, Green, Gray, Orange, Pink, Purple, White, Yellow).
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3

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Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Carc. 2	Carcinogenicity, Category 2
EUH208	Contains {0 message≤name of sensitising substance> fieldvalue=_SENSITIZER_COMPONENTS}. May produce an allergic reaction.
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
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.
H250	Catches fire spontaneously if exposed to air.
H261	In contact with water releases flammable gases.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.

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Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Muta. 2	Germ cell mutagenicity, Category 2
Pyr. Sol. 1	Pyrophoric Solids, Category 1
Repr. 2	Reproductive toxicity, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Sens. 1	H317	Calculation method

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.