

Quik Stik® All Purpose Black, White, Lime Green, Fluorescent Yellow, Silver

Safety Data Sheet

according to Regulation (EU) 2015/830
Issue date: 3/19/2020 Revision date: 12/15/2020 Supersedes: 6/8/2020 Version: 3.0

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

1.1. Product identifier

Product form : Mixture
Product name : Quik Stik® All Purpose Black, White, Lime Green, Fluorescent Yellow, Silver
Other means of identification : UFI
Black HFNX-V4YT-2SKS-7W75
White PPMX-A4S7-ASKA-9TYK
Lime Green 48NX-V4M0-FSKT-W721
Fluorescent Yellow 5UMX-C450-XSKA-MH4Q
Silver 73NX-V476-USKT-KHVW

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 : Paint.
Marking.

1.2.2. Uses advised against

Restrictions on use : No data available

1.3. Details of the supplier of the safety data sheet

LA-CO Industries
1201 Pratt Blvd.
60007-5746 Elk Grove Village, IL - US
T 847-956-7600 - F 847-956-9885
customer_service@laco.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 Minsk 220115	+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 Totleben 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	Giftlinjen 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

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EU Member State	Officieel adviesorgaan	Adres	Noodnummer
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
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 corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Reproductive toxicity, Category 2	H361
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412
Full text of H 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

GHS08

Signal word (CLP)	: Warning
Contains	: 4-tert-butylphenol
Hazard statements (CLP)	: H315 - Causes skin irritation. H319 - Causes serious eye irritation. H361 - Suspected of damaging fertility or the unborn child. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P201 - Obtain special instructions before use.

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P202 - Do not handle until all safety precautions have been read and understood.
P264 - Wash hands thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P321 - Specific treatment (see First aid measures on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements : White, Lime Green, Fluorescent Yellow.
EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-butoxypropan-2-ol	(CAS-No.) 5131-66-8 (EC-No.) 225-878-4 (EC Index-No.) 603-052-00-8	30 - 40	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Titanium dioxide	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5 (EC Index-No.) 022-006-00-2	0 - 25	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 - 15	Pyr. Sol. 1, H250 Water-react. 2, H261
(2-Methoxymethylethoxy)-propanol	(CAS-No.) 34590-94-8 (EC-No.) 252-104-2	5 - 10	Not classified
Carbon black	(CAS-No.) 1333-86-4 (EC-No.) 215-609-9	0 - 10	Not classified
N-Ethyl O/P Toluene Sulfonamides	(CAS-No.) 8047-99-2 (EC-No.) 232-465-2	1 - 5	Acute Tox. 3 (Dermal), H311
Silicon dioxide (amorphous)	(CAS-No.) 7631-86-9 (EC-No.) 231-545-4	0 - 5	Not classified
Aluminum hydroxide	(CAS-No.) 21645-51-2 (EC-No.) 244-492-7	0 - 5	Not classified
Triethanolamine	(CAS-No.) 102-71-6 (EC-No.) 203-049-8	0 - 2	Not classified
4-tert-butylphenol substance listed as REACH Candidate	(CAS-No.) 98-54-4 (EC-No.) 202-679-0	0.1 - 1	Skin Irrit. 2, H315 Eye Dam. 1, H318

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	(EC Index-No.) 604-090-00-8		Repr. 2, H361f Aquatic Chronic 1, H410
Aluminum oxide	(CAS-No.) 1344-28-1 (EC-No.) 215-691-6	0 - 0.5	Not classified
triphenyl phosphite	(CAS-No.) 101-02-0 (EC-No.) 202-908-4 (EC Index-No.) 015-105-00-7	0.01 - 0.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Diethanolamine	(CAS-No.) 111-42-2 (EC-No.) 203-868-0 (EC Index-No.) 603-071-00-1	<0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373
formaldehyde (Note B)(Note D)	(CAS-No.) 50-00-0 (EC-No.) 200-001-8 (EC Index-No.) 605-001-00-5	<0.1	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

Specific concentration limits:

Name	Product identifier	Specific concentration limits
triphenyl phosphite	(CAS-No.) 101-02-0 (EC-No.) 202-908-4 (EC Index-No.) 015-105-00-7	(5 ≤C < 100) Eye Irrit. 2, H319 (5 ≤C < 100) Skin Irrit. 2, H315
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 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 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-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	: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Wash skin thoroughly with mild soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

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

Symptoms/effects : Suspected of damaging fertility or the unborn child.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

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

All treatments should be based on observed signs and symptoms of distress in the patient.

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 : Combustible. Combustion generates: Carbon oxides (CO, CO₂). Nitrogen oxides. Sulphur oxides. metallic oxides.

Explosion hazard : Product is not explosive.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.1.1. For non-emergency personnel

Protective equipment : Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain and collect as any solid.

Methods for cleaning up : Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from ignition sources. Keep container closed when not in use. Protect from sunlight.

Incompatible products : Strong oxidizers. Acids.

Incompatible materials : Sources of ignition.

7.3. Specific end use(s)

Marking.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	(2-Methoxymethylethoxy)-propanol
IOEL TWA	308 mg/m ³
IOEL TWA [ppm]	50 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	307 mg/m ³
MAK (OEL TWA) [ppm]	50 ppm
MAK Short time value [mg/m ³]	614 mg/m ³
MAK Short time value [ppm]	100 ppm
Remark (AT)	max. 8x5 min./Schicht (gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	308 mg/m ³
Limit value [ppm]	50 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	
Local name	(2-Methoxymethylethoxy)-propanol (směs isomerů)
Expoziční limity (PEL) (mg/m ³)	270 mg/m ³
Expoziční limity (PEL) (ppm)	43.7 ppm
Expoziční limity (NPK-P) (mg/m ³)	550 mg/m ³
Expoziční limity (NPK-P) (ppm)	89.1 ppm
Remark (CZ)	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	Dipropylenglycolmethylether (Methoxypropoxypropanol)
Grænseværdi (8 timer) (mg/m ³)	309 mg/m ³
Grænseværdi (8 timer) (ppm)	50 ppm
Grænseværdi (STEL) (mg/m ³)	600 mg/m ³
Grænseværdi (STEL) (ppm)	100 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	(2-Metoksimetyylietoksi)-propanoli
HTP-arvo (8h) (mg/m ³)	310 mg/m ³

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(2-Methoxymethylethoxy)-propanol (34590-94-8)	
HTP-arvo (8h) (ppm)	50 ppm
Huomautus (FI)	lho
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	(2-méthoxyméthyléthoxy)-propanol
VME [mg/m ³]	308 mg/m ³
VME (OEL TWA) [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)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	(2-Methoxymethyl-ethoxy)propanol (Isomerengemisch)
Occupational exposure limit value (mg/m ³)	310 mg/m ³
Occupational exposure limit value (ppm)	50 ppm
Limitation of exposure peaks (mg/m ³)	310 mg/m ³
Limitation of exposure peaks (ppm)	50 ppm
Peak exposure limitation factor	1(I)
Remark	DFG;EU;11
Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	(2-METOXIMETILETOXI)-PROPANOL (Dipropilénlikol-monometil-éter)
AK-érték	308 mg/m ³
CK-érték	308 mg/m ³
Megjegyzések (HU)	EU1 (2000/39/EK irányelvben közölt érték); R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkeznek)
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)	308 mg/m ³
OEL (8 hours ref) (ppm)	50 ppm
Notes (IE)	Sk, IOELV
Italy - Occupational Exposure Limits	
Local name	1-(3-Methoxypropoxy)propan-1-ol
OEL TWA	308 mg/m ³
OEL TWA [ppm]	50 ppm
Notes	Cute
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Metoksiropoksi propanols (dipropilénlikola monometiléteris, DPM)
OEL TWA	308 mg/m ³

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(2-Methoxymethylethoxy)-propanol (34590-94-8)	
OEL TWA (ppm)	50 ppm
Remark (LV)	Āda
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)	300 mg/m ³
IPRV (OEL TWA) [ppm]	50 ppm
TPRV (mg/m ³)	450 mg/m ³
TPRV (ppm)	75 ppm
Remark (LT)	O
Netherlands - Occupational Exposure Limits	
Local name	Dipropyleenglycolmethylether
Grenswaarde TGG 8H (mg/m ³)	300 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland - Occupational Exposure Limits	
Local name	(2-Metoksymetyloetoksy)propanol - mieszanina izomerów: 1-(2-metoksy-1-metyloetoksy)propan-2-ol, 1-(2-metoksy-2-metyloetoksy)propan-2-ol, 2-(2-metoksy-1-metyloetoksy)propan-1-ol
NDS (mg/m ³)	240 mg/m ³
NDSch (mg/m ³)	480 mg/m ³
Remark (PL)	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	2-Metoximetiletoksiopropanol (DPGME)
OEL TWA [ppm]	100 ppm
OEL STEL [ppm]	150 ppm
Remark	P (Toxicidade percutânea)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	2-Metoxymetyl-etoxypropanol (dipropylén glykol mono-metyléter)
NPHV (priemerná) (mg/m ³)	308 mg/m ³
NPHV (priemerná) (ppm)	50 ppm
Upozornenie (SK)	K - znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	(2-metoksimetiletoksi)propanol (mešanica izomer)
OEL TWA	308 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	308 mg/m ³

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(2-Methoxymethylethoxy)-propanol (34590-94-8)	
OEL STEL [ppm]	50 ppm
Remark (SI)	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Éter metílico de dipropilenglicol
VLA-ED (mg/m ³)	308 mg/m ³
VLA-ED (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).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Dipropylenglykolmonometyleter
nivågränsvärde (NVG) (mg/m ³)	300 mg/m ³
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m ³)	450 mg/m ³
kortidsvärde (KTV) (ppm)	75 ppm
Anmärkning (SE)	H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga); V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	308 mg/m ³
WEL TWA (ppm)	50 ppm
Remark (WEL)	(Sk)
Norway - Occupational Exposure Limits	
Local name	(2-metoksymetyletoksy)-propanol (Dipropylenglykolmetyleter)
Grenseverdier (AN) (mg/m ³)	300 mg/m ³
Grenseverdier (AN) (ppm)	50 ppm
Merknader (NO)	H: Kjemikalier som kan tas opp gjennom huden; E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	300 mg/m ³
MAK (ppm)	50 ppm
KZGW (mg/m ³)	300 mg/m ³
KZGW (ppm)	50 ppm

4-tert-butylphenol (98-54-4)

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4-tert-butylphenol (98-54-4)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	0.5 mg/m ³ (H,Sh)
MAK (OEL TWA) [ppm]	0.08 ppm (H,Sh)
MAK Short time value [mg/m ³]	2.5 mg/m ³ max. 2x30 min./Schicht, (H,Sh)
MAK Short time value [ppm]	0.4 ppm max. 2x30 min./Schicht, (H,Sh)
Denmark - Occupational Exposure Limits	
Grænseværdi (8 timer) (mg/m ³)	0.5 mg/m ³
Grænseværdi (8 timer) (ppm)	0.08 ppm
Grænseværdi (STEL) (mg/m ³)	1 mg/m ³
Grænseværdi (STEL) (ppm)	0.16 ppm
Anmærkninger (DK)	H
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	0.5 mg/m ³
Occupational exposure limit value (ppm)	0.08 ppm
Limitation of exposure peaks (mg/m ³)	1 mg/m ³
Limitation of exposure peaks (ppm)	0.16 ppm
Remark	H,Sh
Germany - Biological limit values (TRGS 903)	
BLV	2 mg/l
Remark	PTBP (Urin; Expositionsende bzw. Schichtende)
Slovakia - Occupational Exposure Limits	
NPHV (priemerná) (mg/m ³)	0.5 mg/m ³
NPHV (priemerná) (ppm)	0.05 ppm 2 ppm (p-terc-Butylfenol ptBF)
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	0.5 mg/m ³
MAK (ppm)	0.08 ppm 2 ppm ([Butoxyessigsäure1] (urina;))
KZGW (mg/m ³)	1 mg/m ³
KZGW (ppm)	0.16 ppm

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	

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Aluminum oxide (1344-28-1)	
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 1458 af 13/12/2019
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	
Megjegyzések (HU)	(respirable aerosol)
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	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
Remark (LT)	(alveolinė frakcija. Piūrėk IX skyriaus 3 pastabà.)
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 (PL)	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikająca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286
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. 33/2018 Z. z.

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Aluminum oxide (1344-28-1)	
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 2019. INSHT
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ (inhalable aerosol) 2 mg/m ³ (respirable aerosol)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	10 mg/m ³ (inhalable aerosol) 4 mg/m ³ (respirable aerosol)
Norway - Occupational Exposure Limits	
Local name	Aluminiumoksid
Grenseverdier (AN) (mg/m ³)	10 mg/m ³
Merknader (NO)	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
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
Remark (LT)	F
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 (PL)	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	

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Aluminum hydroxide (21645-51-2)	
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. 33/2018 Z. z.
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(alveolengängige Fraktion)

Diethanolamine (111-42-2)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	2 mg/m ³ (H,Sh)
MAK (OEL TWA) [ppm]	0.46 ppm (H,Sh)
MAK Short time value [mg/m ³]	4 mg/m ³ max. 4x15 min./Schicht, (H,Sh)
MAK Short time value [ppm]	0.92 ppm max. 4x15 min./Schicht, (H,Sh)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	2 mg/m ³
Limit value [ppm]	0.46 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	
Local name	Diethanolamin
Expoziční limity (PEL) (mg/m ³)	5 mg/m ³
Expoziční limity (PEL) (ppm)	1.16 ppm
Expoziční limity (NPK-P) (mg/m ³)	10 mg/m ³
Expoziční limity (NPK-P) (ppm)	2.32 ppm
Remark (CZ)	I,P
Denmark - Occupational Exposure Limits	
Local name	Diethanolamin (Bis(2-hydroxyethyl)amin; Iminodiethanol)
Grænseværdi (8 timer) (mg/m ³)	2 mg/m ³
Grænseværdi (8 timer) (ppm)	0.46 ppm
Grænseværdi (STEL) (mg/m ³)	4 mg/m ³
Grænseværdi (STEL) (ppm)	0.92 ppm
Anmærkninger (DK)	H
Finland - Occupational Exposure Limits	
Local name	Dietanoliamiini
HTP-arvo (8h) (mg/m ³)	2 mg/m ³
HTP-arvo (8h) (ppm)	0.46 ppm
Huomautus (FI)	iho
France - Occupational Exposure Limits	
Local name	Diéthanolamine

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Diethanolamine (111-42-2)	
VME [mg/m ³]	15 mg/m ³
VME (OEL TWA) [ppm]	3 ppm
Note (FR)	Valeurs recommandées/admises
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	1 mg/m ³
Notes (IE)	(Inhalable Fraction and Vapour)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	15 mg/m ³
IPRV (OEL TWA) [ppm]	3 ppm
TPRV (mg/m ³)	30 mg/m ³
TPRV (ppm)	6 ppm
Remark (LT)	O
Poland - Occupational Exposure Limits	
Local name	2,2'-Iminodietanol
NDS (mg/m ³)	9 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	Dietanolamina
OEL TWA (mg/m ³)	1 mg/m ³ FIV (Fração inalável e vapor)
Slovenia - Occupational Exposure Limits	
Local name	dietanolamin
OEL TWA	15 mg/m ³
Spain - Occupational Exposure Limits	
Local name	Dietanolamina
VLA-ED (mg/m ³)	2 mg/m ³
VLA-ED (ppm)	0.46 ppm
Notes	vía dérmica,f
Sweden - Occupational Exposure Limits	
Local name	Dietanolamin
nivågränsvärde (NVG) (mg/m ³)	15 mg/m ³
nivågränsvärde (NVG) (ppm)	3 ppm
kortidsvärde (KTV) (mg/m ³)	30 mg/m ³
kortidsvärde (KTV) (ppm)	6 ppm
Anmärkning (SE)	H
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	13 mg/m ³
WEL TWA (ppm)	3 ppm
Remark (WEL)	The UK Advisory Committee on Toxic Substances has expressed concern that, for these OELs, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list.

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Diethanolamine (111-42-2)

Norway - Occupational Exposure Limits

Local name	2,2'-iminodietanol (3-azapentan-1,5-diol; Dietanolamin)
Grønseverdier (AN) (mg/m ³)	15 mg/m ³
Grønseverdier (AN) (ppm)	3 ppm

Switzerland - Occupational Exposure Limits

VME [mg/m ³]	1 mg/m ³
KZGW (mg/m ³)	1 mg/m ³
Remark	(inhalable aerosol)

Triethanolamine (102-71-6)

Czech Republic - Occupational Exposure Limits

Local name	Triethanolamin
Expoziční limity (PEL) (mg/m ³)	5 mg/m ³
Expoziční limity (PEL) (ppm)	0.8 ppm
Expoziční limity (NPK-P) (mg/m ³)	10 mg/m ³
Expoziční limity (NPK-P) (ppm)	1.6 ppm
Remark (CZ)	D

Denmark - Occupational Exposure Limits

Local name	Triethanolamin
Grænseværdi (8 timer) (mg/m ³)	3.1 mg/m ³
Grænseværdi (8 timer) (ppm)	0.5 ppm
Grænseværdi (STEL) (mg/m ³)	6.2 mg/m ³
Grænseværdi (STEL) (ppm)	1 ppm

Finland - Occupational Exposure Limits

Local name	Trietanoliamiini
HTP-arvo (8h) (mg/m ³)	5 mg/m ³
HTP-arvo (8h) (ppm)	5 ppm

Portugal - Occupational Exposure Limits

Local name	Trietanolamina
OEL TWA (mg/m ³)	5 mg/m ³

Slovenia - Occupational Exposure Limits

Local name	2,2',2''-nitrilotrietanol
OEL TWA	5 mg/m ³

Spain - Occupational Exposure Limits

Local name	Trietanolamina
VLA-ED (mg/m ³)	5 mg/m ³

Sweden - Occupational Exposure Limits

Local name	Trietanolamin
nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³

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Triethanolamine (102-71-6)

nivågränsvärde (NVG) (ppm)	0.8 ppm
kortidsvärde (KTV) (mg/m ³)	10 mg/m ³
kortidsvärde (KTV) (ppm)	1.6 ppm
Anmärkning (SE)	(H)

Norway - Occupational Exposure Limits

Local name	Trietanolamin
Grenseverdier (AN) (mg/m ³)	5 mg/m ³

aluminium powder (pyrophoric) (7429-90-5)

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]	1 mg/m ³
Remark (BE)	(Aluminium, métal et composés insolubles, fraction alvéolaire)

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 (CZ)	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
Grænseværdi (STEL) (mg/m ³)	4 mg/m ³ (respirabel) 10 mg/m ³ (total)
Regulatory reference	BEK nr 1458 af 13/12/2019

Finland - Occupational Exposure Limits

HTP-arvo (8h) (mg/m ³)	2 mg/m ³
Huomautus (FI)	(Alumiini, liukoiset yhdisteet)

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
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Germany - Biological limit values (TRGS 903)

BLV	200 µg/l
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aluminium powder (pyrophoric) (7429-90-5)	
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
Megjegyzések (HU)	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
Hungary - Biological limit values	
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 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
Notes (IE)	(respirable dust)
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 (PL)	Frakcja wdychalna – frakcja aerozolu wnikażąca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikażąca 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)

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aluminium powder (pyrophoric) (7429-90-5)	
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) 25 µg/g creatinine (Celkový, M,,d) 150 µg/g creatinine (Celkový,M,b)
Regulatory reference	Nariadenie vlády č. 33/2018 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)	10 mg/m ³ (inhalable aerosol) 5 mg/m ³ (respirable aerosol)
Sweden - Occupational Exposure Limits	
Local name	Aluminium, lösliga föreningar (som Al)
nivågränsvärde (NVG) (mg/m ³)	1 mg/m ³ (Aluminium, lösliga föreningar, som Al) 5 mg/m ³ (totaldamm, som Al) 2 mg/m ³ (respirabelt damm, som Al)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	10 mg/m ³ (inhalable dust) 4 mg/m ³ (respirable dust)
Norway - Occupational Exposure Limits	
Local name	Aluminiumpulver (pyroteknikk)
Grenseverdier (AN) (mg/m ³)	5 mg/m ³
Merknader (NO)	(Aluminiumpulver, pyroteknikk)
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(alveolengängiger Staub)

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Silicon dioxide (amorphous) (7631-86-9)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	4 mg/m ³
Remark (AT)	(einatembare Fraktion)
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 (E)
Remark	DFG;2;Y
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	Silīcija 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 (SI)	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)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	6 mg/m ³ (inhalable aerosol) 2.4 mg/m ³ (respirable aerosol)
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	4 mg/m ³
Remark	(einatembarer Staub)

Titanium dioxide (13463-67-7)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	5 mg/m ³ (alveolengängiger Anteil)
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)

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Titanium dioxide (13463-67-7)	
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 1458 af 13/12/2019
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 (PL)	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Obowiązuje jednocześnie oznaczenie 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)
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. 33/2018 Z. z.
Spain - Occupational Exposure Limits	
Local name	Dióxido de titanio
VLA-ED (mg/m ³)	10 mg/m ³
Notes	inhalable aerosol

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Titanium dioxide (13463-67-7)	
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Titandioxid
nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ totaldamm
Anmärkning (SE)	3 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol
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)

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)
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 limity (PEL) (mg/m ³)	0.5 mg/m ³
Expoziční limity (PEL) (ppm)	0.4 ppm

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formaldehyde (50-00-0)	
Expoziční limity (NPK-P) (mg/m ³)	1 mg/m ³
Expoziční limity (NPK-P) (ppm)	0.8 ppm
Remark (CZ)	I - dráždí sliznice (oči, dýchací cesty), respektive kůži, 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
Anmærkninger (DK)	L (markerer, at grænseværdien er en loftværdi, som ikke på noget tidspunkt må overskrides); K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 1458 af 13/12/2019
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 (Terveydenhuolto- sekä hTerveydenhuolto 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)
HTP-arvo (15 min) (ppm)	0.6 ppm (Raja-arvoa sovelletaan 11.7.2021 alkaen)
Huomautus (FI)	Ihoherkistyminen
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Aldéhyde formique
VME (OEL TWA) [ppm]	0.5 ppm
VLE [ppm]	1 ppm
Note (FR)	Valeurs recommandées/admises; substance classée cancérogène de catégorie 1B et mutagène de catégorie 2; procédé cancérogène cité à l'arrêté du 5 janvier 1993 modifié
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
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;Sh;Y;X
Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	FORMALDEHID

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formaldehyde (50-00-0)	
AK-érték	0.6 mg/m ³
CK-érték	0.6 mg/m ³
Megjegyzések (HU)	k(1B) (rákkeltő), b (Bőrön át is felszívódik), m (maró hatású anyag, amely felmarja a bőrt, nyálkahártyát, szemet vagy mindhármat), 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)
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	0.5 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
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
Remark (LT)	Ū J K
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 2020
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 (PL)	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	
Local name	Formaldeído
OEL C	0.3 mg/m ³

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formaldehyde (50-00-0)	
OEL C [ppm]	0.3 ppm
Remark	S (Agente com potencial para produzir sensibilização); A2 (Agente carcinogénico confirmado nos animais de laboratório com 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
NPHV (priemerná) (ppm)	0.3 ppm
NPHV (OEL STEL)	0.74 mg/m ³
NPHV (OEL STEL) [ppm]	0.6 ppm
Upozornenie (SK)	S - znamená, že faktor môže spôsobiť senzibilizáciu
Regulatory reference	Nariadenie vlády č. 33/2018 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 (SI)	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 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 2019. 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

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formaldehyde (50-00-0)	
kortidsvärde (KTV) (ppm)	0.6 ppm
TGV (OEL C)	0.74 mg/m ³
TGV (OEL C) [ppm]	0.6 ppm
Anmärkning (SE)	C (Ämnet är cancerframkallande. Risk för cancer finns även vid annan exponering än via inandning. För vissa cancerframkallande ämnen som inte har gränsvärden gäller förbud eller tillståndskrav enligt föreskrifterna om kemiska 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); 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); 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 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	2.5 mg/m ³
WEL TWA (ppm)	2 ppm
WEL STEL (mg/m ³)	2.5 mg/m ³
WEL STEL (OEL STEL) [ppm]	2 ppm
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
Merknader (NO)	A: Kjemikalier som skal betraktes som at de fremkaller allergi eller annen overfølsomhet i øynene eller luftveier, eller som skal betraktes som at de fremkaller allergi ved hudkontakt; 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
MAK (ppm)	0.3 ppm
KZGW (mg/m ³)	0.74 mg/m ³
KZGW (ppm)	0.6 ppm
Carbon black (1333-86-4)	
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	3.5 mg/m ³
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
Anmærkninger (DK)	K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 1458 af 13/12/2019
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 terveysministeriö)
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)
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 (PL)	Frakcja wdychalna – frakcja aerozolu wnikająca 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)
Regulatory reference	Norma Portuguesa NP 1796:2014
Spain - Occupational Exposure Limits	
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 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Kimrök
nivågränsvärde (NVG) (mg/m ³)	3 mg/m ³
Anmärkning (SE)	2 (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)
United Kingdom - Occupational Exposure Limits	
Local name	Carbon black

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Carbon black (1333-86-4)

WEL TWA (mg/m ³)	3.5 mg/m ³
WEL STEL (mg/m ³)	7 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

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:

Either local exhaust or general room ventilation is usually required.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. Long sleeved protective clothing

Hand protection:

Wear suitable gloves. Use rubber gloves. EN 374

8.2.2.3. Respiratory protection

Respiratory protection:

Where excessive vapour may result, wear approved mask. Use air-purifying respirator equipped with particulate filtering cartridges. EN 12083

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

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9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: A solid crayon-like marker.
Colour	: Variable.
Odour	: Solvent.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 62 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 48.87 %
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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 will not occur.

10.4. Conditions to avoid

Heat. Direct sunlight.

10.5. Incompatible materials

Strong acids. Strong oxidizers.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides. metallic oxides. Sulphur oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

1-butoxypropan-2-ol (5131-66-8)

LD50 oral rat	3300 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat [ppm]	> 651 ppm/4h

(2-Methoxymethylethoxy)-propanol (34590-94-8)

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LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 19020 mg/kg
LC50 Inhalation - Rat	> 1667 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 1667 mg/l/4h

N-Ethyl O/P Toluene Sulfonamides (8047-99-2)

LD50 oral rat	2250 mg/kg
LD50 dermal rabbit	1000 mg/kg

4-tert-butylphenol (98-54-4)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 16 g/kg
LC50 Inhalation - Rat	5.6 mg/l/4h

Aluminum oxide (1344-28-1)

LD50 oral rat	> 15900 mg/kg
LC50 Inhalation - Rat	7.6 mg/l/4h

Diethanolamine (111-42-2)

LD50 oral rat	1100 mg/kg
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Triethanolamine (102-71-6)

LD50 oral rat	6400 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg

aluminium powder (pyrophoric) (7429-90-5)

LD50 oral rat	> 15900 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 10 mg/l/4h

Silicon dioxide (amorphous) (7631-86-9)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 58.8 mg/l/4h

Titanium dioxide (13463-67-7)

LD50 oral rat	> 5000 mg/kg
LC50 Inhalation - Rat	> 6.82 mg/l/4h

formaldehyde (50-00-0)

LC50 Inhalation - Rat [ppm]	31.7 ppm
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Carbon black (1333-86-4)

LD50 oral rat	> 8000 mg/kg
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LC50 Inhalation - Rat	> 4.6 mg/m ³ 4 h
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Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)

Diethanolamine (111-42-2)	
IARC group	2B - Possibly carcinogenic to humans

Triethanolamine (102-71-6)	
IARC group	3 - Not classifiable

Silicon dioxide (amorphous) (7631-86-9)	
IARC group	3 - Not classifiable

Titanium dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans

formaldehyde (50-00-0)	
IARC group	1 - Carcinogenic to humans

Carbon black (1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans, Inhalation of dust

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	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)

Diethanolamine (111-42-2)	
LOAEL (oral, rat, 90 days)	14 mg/kg bodyweight/day 14 mg/kg female; 25 mg/kg male
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

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1-butoxypropan-2-ol (5131-66-8)

LC50 fish 1	> 560 (560 – 1000) mg/l 96 h
EC50 crustacea	> 1000 mg/l 48 h

(2-Methoxymethylethoxy)-propanol (34590-94-8)

LC50 fish 1	> 1000 mg/l <i>Poecilia reticulata</i>
ErC50 algae	> 1000 mg/l

4-tert-butylphenol (98-54-4)

LC50 fish 1	> 1 mg/l 96 h
EC50 crustacea	4.8 mg/l 48 h

Aluminum oxide (1344-28-1)

EC50 crustacea	1470 mg/l
NOEC (acute)	50 mg/l

Diethanolamine (111-42-2)

LC50 fish 1	1460 mg/l 96 h
EC50 crustacea	30.1 mg/l 48 h
ErC50 algae	2.2 mg/l 96 h

Triethanolamine (102-71-6)

LC50 fish 1	11800 mg/l
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Silicon dioxide (amorphous) (7631-86-9)

LC50 fish 1	> 10000 mg/l
EC50 crustacea	> 1000 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

12.2. Persistence and degradability

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Persistence and degradability	Not established.
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1-butoxypropan-2-ol (5131-66-8)

Persistence and degradability	Readily biodegradable.
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(2-Methoxymethylethoxy)-propanol (34590-94-8)

Persistence and degradability	Readily biodegradable.
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4-tert-butylphenol (98-54-4)

Biodegradation	60 % 28 d
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Diethanolamine (111-42-2)

Persistence and degradability	Readily biodegradable.
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Silicon dioxide (amorphous) (7631-86-9)

Persistence and degradability	Product persists.
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formaldehyde (50-00-0)

Persistence and degradability	Readily biodegradable.
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Carbon black (1333-86-4)

Persistence and degradability	Not readily biodegradable.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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1-butoxypropan-2-ol (5131-66-8)

Log Pow	1.2
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4-tert-butylphenol (98-54-4)

Log Pow	3
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Diethanolamine (111-42-2)

Log Pow	-1.71
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Bioaccumulative potential	Not expected to bioaccumulate.
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Triethanolamine (102-71-6)

Log Pow	-1.75
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formaldehyde (50-00-0)

BCF fish 1	< 1
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Log Pow	0.35
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12.4. Mobility in soil

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Ecology - soil	No data available.
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12.5. Results of PBT and vPvB assessment

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PBT: not yet assessed

vPvB: not yet assessed

Component

4-tert-butylphenol (98-54-4)	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
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12.6. 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 : HP4 - "Irritant — skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment
HP10 - "Toxic for reproduction:" waste which has adverse effects on sexual function and fertility in adult males and females, as well as developmental toxicity in the offspring.

SECTION 14: Transport information

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

14.1 UN 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.

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Transport by sea

Not regulated.

Air transport

Not regulated.

Inland waterway transport

Not regulated.

Rail transport

Not regulated.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code	Applicable on	Entry title or description
28.	formaldehyde	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(b)	1-butoxypropan-2-ol ; N-Ethyl O/P Toluene Sulfonamides ; 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
40.	aluminium powder (pyrophoric)	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.
72.	formaldehyde	The substances listed in column 1 of the Table in Appendix 12

Contains substance on the REACH candidate list in concentration $\geq 0.1\%$ or with a lower specific limit: 4-tert-butylphenol (EC 202-679-0, CAS 98-54-4)

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 48.87 %

15.1.2. National regulations

France

Occupational diseases

Code	Description
RG 43	Diseases caused by formaldehyde and its polymers
RG 43 BIS	Cancerous conditions caused by formaldehyde
RG 49	Skin disorders caused by aliphatic, alicyclic amines or ethanolamines
RG 49 BIS	Respiratory disorders caused by aliphatic amines, ethanolamines or isophoronediamine
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)

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WGK remark	: Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: N-Ethyl O/P Toluene Sulfonamides, formaldehyde are listed
SZW-lijst van mutagene stoffen	: N-Ethyl O/P Toluene Sulfonamides is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: 4-tert-butylphenol is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed
Denmark	
Class for fire hazard	: Class III-1
Store unit	: 50 liter
Classification remarks	: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes:

Product identifier. Revised format.

Abbreviations and acronyms:

	ACGIH (American Conference of Government Industrial Hygienists)
	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
	PBT: Persistent, Bioaccumulative, Toxic
	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 . Kristen 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:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
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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 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Carc. 1B	Carcinogenicity, Category 1B
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Pyr. Sol. 1	Pyrophoric Solids, Category 1
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
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
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Category 2
H250	Catches fire spontaneously if exposed to air.
H261	In contact with water releases flammable gases.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic 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.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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H412	Harmful to aquatic life with long lasting effects.
	White, Lime Green, Fluorescent Yellow.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Repr. 2	H361	Expert judgment
Aquatic Chronic 3	H412	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.