

Safety Data Sheet

according to Regulation (EU) 2015/830

SDS Ref.: LACO1510011

Date of issue: 10/7/2015 Revision date: 1/8/2019 Supersedes: 12/20/2017 Version: 4.0

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

1.1. Product identifier

Product form : Mixture
 Product name : Stylmark® Tube Marker, RS.2000 Paint Refill Tube
 Synonyms : Stylmark® Tube Marker - Black, Blue, Green, Red, White, Yellow, Orange, Purple, Gray, Pink, Brown / RS.2000 Paint Refill Tube - Black, Blue, Green, Red, White, Yellow, Orange, Purple, Gray, Pink, Brown

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Marking.

1.2.2. Uses advised against

Restrictions on use : No additional information available

1.3. Details of the supplier of the safety data sheet

LA-CO Industries Europe S.A.S.

Parc Industriel de la Plaine de

l'Ain - Allée des Combes.

01150.BLYES.France.

Phone: +33 (0)4 74 46 23 23

Fax: +33 (0)4 74 46 23 29

E-mail: info@eu.laco.com

Web: http://www.markal.com

1.4. Emergency telephone number

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887



| 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/Antigifocentrum 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 | Gifflinjen 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 |

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| EU Member State | Officieel adviesorgaan | Adres | Noodnummer |
|-----------------|--|--|---|
| 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]

Flammable liquids, Category 3 H226

Specific target organ toxicity — Single exposure, Category 3, Narcosis H336

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

GHS07

Signal word (CLP)

: Warning

Hazardous ingredients

: Butyl acetate

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.
H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof equipment.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a POISON CENTRE or doctor if you feel unwell.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.

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

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

: 1.02% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
1.02% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
1.02% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/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

Comments

: Only component with health hazards above the applicable thresholds and/or Exposure Limit values are shown.

Exact concentrations are withheld as trade secret.

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------------------------|---|-----------|---|
| Butyl acetate | (CAS-No.) 123-86-4 (EC-No.) 204-658-1 (EC Index-No.) 607-025-00-1 | 25 - 55 | Flam. Liq. 3, H226 STOT SE 3, H336 |
| calcium carbonate | (CAS-No.) 471-34-1 (EC-No.) 207-439-9 | 30 - 40 | Not classified |
| titanium dioxide | (CAS-No.) 13463-67-7 (EC-No.) 236-675-5 | 0 - 7 | Not classified |
| Silicon dioxide (cristobalite) | (CAS-No.) 14808-60-7 (EC-No.) 238-878-4 | 0.5 - 1.5 | Carc. 1A, H350i |
| Carbon black | (CAS-No.) 1333-86-4 (EC-No.) 215-609-9 | < 1 | Carc. 2, H351 |
| Magnesium oxide | (CAS-No.) 1309-48-4 (EC-No.) 215-171-9 | 0 - 0.7 | Not classified |
| Benzaldehyde | (CAS-No.) 100-52-7 (EC-No.) 202-860-4 (EC Index-No.) 605-012-00-5 | < 0.5 | Acute Tox. 4 (Oral), H302 |
| 2-methoxy-1-methylethyl acetate | (CAS-No.) 108-65-6 (EC-No.) 203-603-9 (EC Index-No.) 607-195-00-7 | 0 - 0.5 | Flam. Liq. 3, H226 |
| Aluminum oxide | (CAS-No.) 1344-28-1 (EC-No.) 215-691-6 | < 0.1 | Not classified |
| Xylene | (CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (EC Index-No.) 601-022-00-9 (REACH-no) 01-2119488216-32 | < 0.1 | Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 |
| D-Limonène | (CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7 | < 0.1 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 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 |
| 1-Butanol | (CAS-No.) 71-36-3 (EC-No.) 200-751-6 (EC Index-No.) 603-004-00-6 | < 0.1 | Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 |

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| | | | |
|-------------------------|--|-------|--|
| ethylbenzene | (CAS-No.) 100-41-4 (EC-No.) 202-849-4 (EC Index-No.) 601-023-00-4 (REACH-no) 01-2119489370-35 | < 0.1 | Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:dust,mist), H332 STOT RE 2, H373 Asp. Tox. 1, H304 |
| 2-methoxypropyl acetate | (CAS-No.) 70657-70-4 (EC-No.) 274-724-2 (EC Index-No.) 607-251-00-0 | < 0.1 | Flam. Liq. 3, H226 Repr. 1B, H360D STOT SE 3, H335 |

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. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. |
| First-aid measures after skin contact | : Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| 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. |

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

| | |
|-------------------------------------|--|
| Symptoms/effects after inhalation | : May cause drowsiness or dizziness. Inhalation of vapours may cause respiratory irritation. |
| Symptoms/effects after skin contact | : Repeated exposure may cause skin dryness or cracking. |

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 | : Flammable liquid and vapour. Burning produces irritating, toxic and noxious fumes. |
| Explosion hazard | : May form flammable/explosive vapour-air mixture. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. |
| Protection during firefighting | : Wear a self contained breathing apparatus. Wear fire/flare resistant/retardant clothing. EN469. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|--|
| General measures | : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Avoid all eye and skin contact and do not breathe vapour and mist. |
|------------------|--|

6.1.1. For non-emergency personnel

| | |
|----------------------|--|
| Protective equipment | : Large amounts: Wear suitable protective clothing and gloves. Chemical goggles or safety glasses. |
| Emergency procedures | : Evacuate area. |

6.1.2. For emergency responders

| | |
|----------------------|--|
| Protective equipment | : Large amounts: Wear suitable protective clothing and gloves, Chemical goggles or safety glasses. |
| Emergency procedures | : Stop leak if safe to do so. Ventilate area. |

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|--|
| For containment | : Stop leak if safe to do so. Do not allow minor leaks or spills to accumulate on walking surfaces. |
| Methods for cleaning up | : Absorb and/or contain spill with inert material, then place in suitable container. Following recovery, flush area with water. Clean surface thoroughly to remove residual contamination. |

6.4. Reference to other sections

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

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling

: No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid all eye and skin contact and do not breathe vapour and mist. Use only outdoors or in a well-ventilated area.

Hygiene measures

: Always wash your hands immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep container tightly closed.

Incompatible products

: Strong acids. Strong bases. Strong oxidizers.

Incompatible materials

: Heat sources. Direct sunlight.

Heat and ignition sources

: Keep away from heat, sparks and flame.

Prohibitions on mixed storage

: Incompatible materials.

Storage area

: Store in dry, cool, well-ventilated area. Keep out of direct sunlight. Keep out of reach of children.

7.3. Specific end use(s)

Marking.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Butyl acetate (123-86-4)

| EU | Local name | n-butyl acetate |
|----------------|---|-----------------------------|
| Austria | MAK (mg/m ³) | 480 mg/m ³ |
| Austria | MAK (ppm) | 100 ppm |
| Austria | MAK Short time value (mg/m ³) | 480 mg/m ³ |
| Austria | MAK Short time value (ppm) | 100 ppm |
| Austria | Remark (AT) | (gemessen als Momentanwert) |
| Czech Republic | Local name | Butylacetát |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 950 mg/m ³ |
| Czech Republic | Expoziční limity (PEL) (ppm) | 200.5 ppm |
| Czech Republic | Expoziční limity (NPK-P) (mg/m ³) | 1200 mg/m ³ |
| Czech Republic | Expoziční limity (NPK-P) (ppm) | 253 ppm |
| Denmark | Local name | n-Butylacetat |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 710 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (ppm) | 150 ppm |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 1420 mg/m ³ |
| Denmark | Grænseværdie (kortvarig) (ppm) | 300 ppm |
| Finland | Local name | n-Butyliasettaatti |
| Finland | HTP-arvo (8h) (mg/m ³) | 720 mg/m ³ |
| Finland | HTP-arvo (8h) (ppm) | 150 ppm |
| Finland | HTP-arvo (15 min) | 960 mg/m ³ |
| Finland | HTP-arvo (15 min) (ppm) | 200 ppm |
| France | Local name | Acétate de n-butyle |
| France | VME (mg/m ³) | 710 mg/m ³ |
| France | VME (ppm) | 150 ppm |
| France | VLE (mg/m ³) | 940 mg/m ³ |
| France | VLE (ppm) | 200 ppm |
| Germany | TRGS 900 Local name | n-Butylacetat |
| Germany | TRGS 910 Acceptable concentration notes | |
| Hungary | Local name | n-BUTIL-ACETÁT |

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| Butyl acetate (123-86-4) | | |
|--------------------------|---|---|
| Hungary | AK-érték | 950 mg/m ³ |
| Hungary | CK-érték | 950 mg/m ³ |
| Hungary | Megjegyzések (HU) | i, sz; l. |
| Latvia | Local name | Etiķskābesbutilesteris (n-butilacetāts) |
| Latvia | OEL TWA (mg/m ³) | 200 mg/m ³ |
| Lithuania | IPRV (mg/m ³) | 500 mg/m ³ |
| Lithuania | IPRV (ppm) | 100 ppm |
| Lithuania | TPRV (mg/m ³) | 700 mg/m ³ |
| Lithuania | TPRV (ppm) | 150 ppm |
| Poland | Local name | Octan butylu (n-butylu octan) |
| Poland | NDS (mg/m ³) | 200 mg/m ³ |
| Poland | NDSCh (mg/m ³) | 950 mg/m ³ |
| Portugal | Local name | Acetato de n-butilo |
| Portugal | OEL TWA (ppm) | 150 ppm |
| Portugal | OEL STEL (ppm) | 200 ppm |
| Slovakia | Local name | n-Butylacetát |
| Slovakia | NPHV (priemerná) (mg/m ³) | 500 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 100 ppm |
| Slovakia | OEL STEL (mg/m ³) | 700 mg/m ³ |
| Slovakia | OEL STEL (ppm) | 150 ppm |
| Slovenia | Local name | n-butilacetat |
| Slovenia | OEL TWA (mg/m ³) | 480 mg/m ³ |
| Slovenia | OEL TWA (ppm) | 100 ppm |
| Slovenia | OEL STEL (mg/m ³) | 480 mg/m ³ |
| Slovenia | OEL STEL (ppm) | 100 ppm |
| Spain | Local name | Acetato de n-butilo |
| Spain | VLA-ED (mg/m ³) | 724 mg/m ³ |
| Spain | VLA-ED (ppm) | 150 ppm |
| Spain | VLA-EC (mg/m ³) | 965 mg/m ³ |
| Spain | VLA-EC (ppm) | 200 ppm |
| Sweden | Local name | n-Butylacetat |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 500 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 100 ppm |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 700 mg/m ³ |
| Sweden | kortidsvärde (KTV) (ppm) | 150 ppm |
| Norway | Grenseverdier (AN) (mg/m ³) | 355 mg/m ³ |
| Norway | Grenseverdier (AN) (ppm) | 75 ppm |

| Benzaldehyde (100-52-7) | | |
|-------------------------|------------------------------------|------------------------|
| Finland | Local name | Bentsaldehydi |
| Finland | HTP-arvo (8h) (mg/m ³) | 4.4 mg/m ³ |
| Finland | HTP-arvo (8h) (ppm) | 1 ppm |
| Finland | OEL Ceiling (mg/m ³) | 17.4 mg/m ³ |
| Finland | OEL Ceiling (ppm) | 4 ppm |
| Finland | Huomautus (FI) | kattoarvo |

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| Benzaldehyde (100-52-7) | | |
|--------------------------------|---|---|
| Finland | Regulatory reference | HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö) |
| Germany | TRGS 910 Acceptable concentration notes | |
| Hungary | Local name | BENZALDEHID |
| Hungary | AK-érték | 5 mg/m ³ |
| Hungary | CK-érték | 10 mg/m ³ |
| Hungary | Regulatory reference | 25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról |
| Latvia | Local name | Benzaldehīds |
| Latvia | OEL TWA (mg/m ³) | 5 mg/m ³ |
| Latvia | Regulatory reference | Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325 |
| Lithuania | IPRV (mg/m ³) | 5 mg/m ³ |
| Poland | Local name | Benzaldehyd (benzoesowy aldehyd) |
| Poland | NDS (mg/m ³) | 10 mg/m ³ |
| Poland | NDSch (mg/m ³) | 40 mg/m ³ |
| Poland | Regulatory reference | Dz. U. 2018 poz. 1286 |

| D-Limonène (5989-27-5) | | |
|-------------------------------|---|---|
| Finland | Local name | D-Limoneeni |
| Finland | HTP-arvo (8h) (mg/m ³) | 140 mg/m ³ |
| Finland | HTP-arvo (8h) (ppm) | 25 ppm |
| Finland | HTP-arvo (15 min) | 280 mg/m ³ |
| Finland | HTP-arvo (15 min) (ppm) | 50 ppm |
| Finland | Regulatory reference | HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö) |
| Germany | TRGS 900 Local name | (R)-p-Mentha-1,8-dien (D-Limonen) |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 28 mg/m ³ |
| Germany | TRGS 900 Occupational exposure limit value (ppm) | 5 ppm |
| Germany | TRGS 900 Limitation of exposure peaks | 4(II) |
| Germany | TRGS 900 Remark | DFG;H;Sh;Y |
| Germany | TRGS 900 Regulatory reference | TRGS900 |
| Germany | TRGS 910 Acceptable concentration notes | |
| Spain | Local name | d-Limoneno |
| Spain | VLA-ED (mg/m ³) | 168 mg/m ³ |
| Spain | VLA-ED (ppm) | 30 ppm |
| Spain | Notes | Sen (Sensibilizante), 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). |
| Spain | Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2018. INSHT |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 150 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 25 ppm |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 300 mg/m ³ |
| Sweden | kortidsvärde (KTV) (ppm) | 50 ppm |
| Norway | Local name | d-limonen (Limonen) |

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| D-Limonène (5989-27-5) | | |
|-------------------------------|---|--|
| Norway | Grenseverdier (AN) (mg/m ³) | 140 mg/m ³ |
| Norway | Grenseverdier (AN) (ppm) | 25 ppm |
| Norway | 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) |
| Norway | Regulatory reference | FOR-2018-08-21-1255 |
| Switzerland | VME (mg/m ³) | 110 mg/m ³ |
| Switzerland | MAK (ppm) | 20 ppm |
| Switzerland | KZGW (mg/m ³) | 220 mg/m ³ |
| Switzerland | KZGW (ppm) | 40 ppm |

| Carbon black (1333-86-4) | | |
|---------------------------------|---|---|
| Belgium | Limit value (mg/m ³) | 3.5 mg/m ³ |
| Denmark | Local name | Carbon black |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 3.5 mg/m ³ |
| Denmark | Anmærkninger (DK) | K |
| Denmark | Regulatory reference | BEK nr 655 af 31/05/2018 |
| Finland | Local name | Nokimusta |
| Finland | HTP-arvo (8h) (mg/m ³) | 3.5 mg/m ³ |
| Finland | HTP-arvo (15 min) | 7 mg/m ³ |
| Finland | Regulatory reference | HTP-ARVOT 2018 (Sosiaali- ja terveystieteistie) |
| France | Local name | Noir de carbone |
| France | VME (mg/m ³) | 3.5 mg/m ³ |
| France | Note (FR) | Valeurs recommandées/admises |
| France | Regulatory reference | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016) |
| Germany | TRGS 910 Acceptable concentration notes | |
| Ireland | OEL (8 hours ref) (mg/m ³) | 3.5 mg/m ³ |
| Ireland | OEL (15 min ref) (mg/m ³) | 7 mg/m ³ |
| Poland | Local name | Sadza techniczna |
| Poland | NDS (mg/m ³) | 4 mg/m ³ frakcja wdychalna |
| Poland | Remark (PL) | Frakcja wdychalna – frakcja aerozolu wnikaająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. |
| Poland | Regulatory reference | Dz. U. 2018 poz. 1286 |
| Portugal | Local name | Carbono, preto (Negro de fumo) |
| Portugal | OEL TWA (mg/m ³) | 3 mg/m ³ I (Fracção inalável) |
| Slovakia | Regulatory reference | Norma Portuguesa NP 1796:2014 |
| Spain | Local name | Negro de humo |
| Spain | VLA-ED (mg/m ³) | 3.5 mg/m ³ |
| Spain | Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2018. INSHT |
| Sweden | Local name | Kimrök |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 3 mg/m ³ |

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| Carbon black (1333-86-4) | | |
|--------------------------|---|--|
| Sweden | 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 | Local name | Carbon black |
| United Kingdom | WEL TWA (mg/m ³) | 3.5 mg/m ³ |
| United Kingdom | WEL STEL (mg/m ³) | 7 mg/m ³ |
| Norway | Local name | Carbon Black (lampesot) |
| Norway | Grenseverdier (AN) (mg/m ³) | 3.5 mg/m ³ |
| Norway | Regulatory reference | FOR-2018-08-21-1255 |

| 2-methoxy-1-methylethyl acetate (108-65-6) | | |
|--|--|-----------------------|
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 550 mg/m ³ |
| Denmark | Grænseværdie (kortvarig) (ppm) | 100 ppm |
| Finland | Huomautus (FI) | iho |
| France | Note (FR) | Peau |
| Germany | TRGS 900 Limitation of exposure peaks (mg/m ³) | 270 mg/m ³ |
| Germany | TRGS 900 Limitation of exposure peaks (ppm) | 50 ppm |
| Germany | TRGS 910 Acceptable concentration notes | |
| Slovakia | NPHV (priemerná) (mg/m ³) | 275 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 50 ppm |
| Slovakia | Upozornenie (SK) | (K) |
| Spain | VLA-ED (mg/m ³) | 275 mg/m ³ |
| Spain | VLA-ED (ppm) | 50 ppm |
| Spain | VLA-EC (mg/m ³) | 550 mg/m ³ |
| Spain | VLA-EC (ppm) | 100 ppm |
| Spain | Notes | VLI |
| Sweden | Anmärkning (SE) | H |

| 2-methoxypropyl acetate (70657-70-4) | | |
|--------------------------------------|--|-----------------------|
| Czech Republic | Remark (CZ) | D |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 220 mg/m ³ |
| Denmark | Grænseværdie (kortvarig) (ppm) | 40 ppm |
| Germany | TRGS 900 Limitation of exposure peaks (mg/m ³) | 224 mg/m ³ |
| Germany | TRGS 900 Limitation of exposure peaks (ppm) | 40 ppm |
| Germany | TRGS 910 Acceptable concentration notes | |
| Slovakia | NPHV (priemerná) (mg/m ³) | 110 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 20 ppm |
| Slovakia | Upozornenie (SK) | (K) |
| Spain | VLA-ED (mg/m ³) | 28 mg/m ³ |
| Spain | VLA-ED (ppm) | 5 ppm |
| Spain | VLA-EC (mg/m ³) | 220 mg/m ³ |
| Spain | VLA-EC (ppm) | 40 ppm |
| Spain | Notes | TR1B,r |

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| Silicon dioxide (cristobalite) (14808-60-7) | | |
|---|---|--|
| EU | Local name | Silica crystalline (Quartz) |
| EU | Notes | SCOEL Recommendations (2003) |
| EU | Regulatory reference | SCOEL Recommendations |
| Austria | MAK (mg/m ³) | 0.15 mg/m ³ |
| Austria | Remark (AT) | (alveolengängige Fraktion; Jahres-Miw) |
| Belgium | Limit value (mg/m ³) | 0.1 mg/m ³ |
| Belgium | Remark (BE) | (poussières alvéolaires) |
| Denmark | Local name | Kvarts |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 0.3 mg/m ³ (inhalable aerosol) 0.1 mg/m ³ (K, respirable aerosol) |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 0.6 mg/m ³ (inhalable aerosol) 0.2 mg/m ³ (K, respirable aerosol) |
| Denmark | Anmærkninger (DK) | K (betyder, at stoffet anses for at kunne være kræftfremkaldende) |
| Denmark | Regulatory reference | BEK nr 655 af 31/05/2018 |
| Finland | Local name | Kvartsi |
| Finland | HTP-arvo (8h) (mg/m ³) | 0.05 mg/m ³ |
| Finland | Huomautus (FI) | (alveolijae) |
| Finland | Regulatory reference | HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö) |
| France | Local name | Quartz (Silices cristallines) |
| France | VME (mg/m ³) | 0.1 mg/m ³ |
| France | Note (FR) | (poussières alvéolaires de quartz) |
| France | Regulatory reference | Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016) |
| Germany | TRGS 910 Acceptable concentration notes | |
| Hungary | Local name | Kvarc |
| Hungary | AK-érték | 0.15 mg/m ³ |
| Hungary | MK-érték | 0.15 mg/m ³ respirabilis frakció |
| Hungary | Megjegyzések (HU) | (respirable aerosol) |
| Hungary | Regulatory reference | 25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról |
| Ireland | OEL (8 hours ref) (mg/m ³) | 0.1 mg/m ³ |
| Lithuania | IPRV (mg/m ³) | 0.1 mg/m ³ |
| Lithuania | Remark (LT) | (Piūrėk IX skyriaus 3 pastabà) |
| Netherlands | Local name | Silicium(di)oxide – kwarts |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 0.075 mg/m ³ |
| Netherlands | Remark (MAC) | (Voor respirabel stof) (kankerverwekkende stoff) |
| Netherlands | Regulatory reference | Arbeidsomstandighedenregeling 2018 |
| Poland | Local name | Krzemionka krystaliczna – kwarc |
| Poland | NDS (mg/m ³) | 2 mg/m ³ (krzemionke powyzej 50%; pyl calkowity) 0.3 mg/m ³ (krzemionke powyzej 50%; pyl respirabilny) 2 mg/m ³ (krzemionke od 2% do 50%; pyl calkowity) 0.3 mg/m ³ (krzemionke od 2% do 50%; pyl respirabilny) |
| Poland | Remark (PL) | Frakcja respirabilna – frakcja aerozolu wnikajàca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej. |
| Poland | Regulatory reference | Dz. U. 2018 poz. 1286 |

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| Silicon dioxide (cristobalite) (14808-60-7) | | |
|--|---|--|
| Portugal | Local name | Silica, cristalina α - Quartzo |
| Portugal | OEL TWA (mg/m ³) | 0.025 mg/m ³ R (Fracção respirável) |
| Slovakia | Regulatory reference | Norma Portuguesa NP 1796:2014 |
| Slovakia | Local name | oxid kremičitý, kryštalický |
| Slovakia | NPHV (priemerná) (mg/m ³) | 0.1 mg/m ³ |
| Slovakia | Upozornenie (SK) | (Dokázaný karcinogén pre ľudí, R) |
| Slovakia | Regulatory reference | Nariadenie vlády č. 83/2015 Z. z. |
| Slovenia | Local name | kremen |
| Slovenia | OEL TWA (mg/m ³) | 0.15 mg/m ³ |
| Slovenia | Regulatory reference | Uradni list RS, št. 38/2015 z dne 4.6.2015 |
| Spain | Local name | Sílice Cristalina (Cuarzo) |
| Spain | VLA-ED (mg/m ³) | 0.1 mg/m ³ |
| Spain | Notes | (respirable aerosol) |
| Spain | Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2018. INSHT |
| Sweden | Local name | Kvarts |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 0.1 mg/m ³ |
| Sweden | Anmärkning (SE) | (respirabelt damm; M, 1) |
| Sweden | Regulatory reference | Hygieniska gränsvärden (AFS 2018:1) |
| Norway | Local name | α -kvarts |
| Norway | Grønseverdier (AN) (mg/m ³) | 0.3 mg/m ³ Totalstøv 0.1 mg/m ³ Respirabelt støv |
| Norway | Merknader (NO) | K (Kjemikalier som skal betraktes som kreftfremkallende); 7) Støv som inneholder α -kvarts, kristobalitt og/eller tridymitt vurderes ut fra summasjonsformel. Samtidig må verdiene for sjenerende støv overholdes |
| Norway | Regulatory reference | FOR-2018-08-21-1255 |
| Switzerland | VME (mg/m ³) | 0.15 mg/m ³ |
| Switzerland | Remark | (respirable aerosol) |

| Magnesium oxide (1309-48-4) | | |
|------------------------------------|---|---|
| Austria | MAK (mg/m ³) | 10 mg/m ³ (einatembare Fraktion) 5 mg/m ³ (gemessen als alveolengängige Fraktion) 5 mg/m ³ (Magnesiumoxidrauch, alveolengängige Fraktion) |
| Austria | MAK Short time value (mg/m ³) | 20 mg/m ³ (einatembare Fraktion) max. 2x60 min./Schicht 10 mg/m ³ (gemessen als alveolengängige Fraktion) max. 2x60 min./Schicht 20 mg/m ³ (Magnesiumoxidrauch, alveolengängige Fraktion) max. 4x15 min./Schicht |
| Belgium | Limit value (mg/m ³) | 10 mg/m ³ |
| Belgium | Remark (BE) | (oxyde de) (fumées) |
| Denmark | Local name | Magnesiumoxid |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 6 mg/m ³ |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 12 mg/m ³ |
| Denmark | Regulatory reference | BEK nr 655 af 31/05/2018 |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 10 mg/m ³ E (mg/m ³) |
| Germany | TRGS 910 Acceptable concentration notes | |

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| Magnesium oxide (1309-48-4) | | |
|-----------------------------|---|--|
| Hungary | Local name | MAGNÉZIUM-OXID (Mg-ra számítva) |
| Hungary | AK-érték | 6 mg/m ³ |
| Hungary | CK-érték | 24 mg/m ³ |
| Hungary | Megjegyzések (HU) | respirable aerosol |
| Hungary | Regulatory reference | 25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról |
| Ireland | OEL (8 hours ref) (mg/m ³) | 4 mg/m ³ respirable dust 5 mg/m ³ fume 10 mg/m ³ total inhalable dust |
| Ireland | OEL (15 min ref) (mg/m ³) | 10 mg/m ³ fume |
| Lithuania | IPRV (mg/m ³) | 4 mg/m ³ |
| Poland | NDS (mg/m ³) | 5 mg/m ³ dymy 10 mg/m ³ pyly |
| Portugal | Local name | Óxido de magnésio |
| Portugal | OEL TWA (mg/m ³) | 10 mg/m ³ I (Fração inalável) |
| Slovakia | Regulatory reference | Norma Portuguesa NP 1796:2014 |
| Slovakia | Local name | Oxid horečnatý |
| Slovakia | NPHV (priemerná) (mg/m ³) | 10 mg/m ³ 4 mg/m ³ (inhalovateľná frakcia) |
| Slovakia | Regulatory reference | Nariadenie vlády č. 33/2018 Z.z. |
| Spain | Local name | Óxido de Magnesio |
| Spain | VLA-ED (mg/m ³) | 10 mg/m ³ |
| Spain | Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2018. INSHT |
| United Kingdom | WEL TWA (mg/m ³) | 10 mg/m ³ (inhalable dust) 4 mg/m ³ (fume and respirable dust) |
| Norway | Local name | Magnesiumoksid |
| Norway | Grønseverdier (AN) (mg/m ³) | 10 mg/m ³ |
| Norway | Merknader (NO) | 1) |
| Norway | Regulatory reference | FOR-2018-08-21-1255 |
| Switzerland | VME (mg/m ³) | 3 mg/m ³ |
| Switzerland | Remark | (respirable aerosol) |

| Iron oxide red (1309-37-1) | | |
|----------------------------|---|---|
| Austria | MAK (mg/m ³) | 10 mg/m ³ (einatembare Fraktion) 5 mg/m ³ (aveolengängige Fraktion) |
| Austria | 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 | Limit value (mg/m ³) | 5 mg/m ³ |
| Belgium | Limit value (ppm) | 2 ppm |
| Belgium | Remark (BE) | (trioxyde de; fumées, en Fe) |
| Denmark | Local name | Jernoxid |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 3.5 mg/m ³ |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 7 mg/m ³ |
| Denmark | Anmærkninger (DK) | (Jernoxid, total dust) |
| Denmark | Regulatory reference | BEK nr 655 af 31/05/2018 |
| Finland | Local name | Rautaoksidi, huurut |

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| Iron oxide red (1309-37-1) | | |
|----------------------------|---|--|
| Finland | HTP-arvo (8h) (mg/m ³) | 5 mg/m ³ |
| Finland | Huomautus (FI) | (Fe) |
| Finland | Regulatory reference | HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö) |
| France | Local name | Trioxyde de difer |
| France | VME (mg/m ³) | 10 mg/m ³ (oxyde rouge synthétique) 5 mg/m ³ (trioxide de di-,fumées) |
| France | Note (FR) | Valeurs recommandées/admises |
| France | Regulatory reference | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016) |
| Germany | TRGS 910 Acceptable concentration notes | |
| Hungary | Local name | VAS(III)-OXID (Fe-ra számítva) |
| Hungary | AK-érték | 6 mg/m ³ |
| Hungary | Megjegyzések (HU) | (respirabilis por) |
| Hungary | Regulatory reference | 25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról |
| Ireland | OEL (8 hours ref) (mg/m ³) | 5 mg/m ³ (Iron oxide, fume as Fe) 10 mg/m ³ (Rouge total inhalable dust) 4 mg/m ³ (Rouge total respirable dust) |
| Ireland | OEL (15 min ref) (mg/m ³) | 10 mg/m ³ (Iron oxide, fume as Fe) |
| Lithuania | IPRV (mg/m ³) | 3.5 mg/m ³ |
| Lithuania | Remark (LT) | (Piūrėk IX skyriaus 3 pastabà.) |
| Poland | Local name | Tlenki zelaza w przeliczeniu na Fe dymy |
| Poland | NDS (mg/m ³) | 5 mg/m ³ |
| Poland | NDSch (mg/m ³) | 10 mg/m ³ |
| Poland | Remark (PL) | (dymy) |
| Poland | Regulatory reference | Dz. U. 2018 poz. 1286 |
| Portugal | Local name | Óxido de ferro |
| Portugal | OEL TWA (mg/m ³) | 5 mg/m ³ R (Fração respirável) |
| Slovakia | Regulatory reference | Norma Portuguesa NP 1796:2014 |
| Slovakia | Local name | Oxidy železa, dymy (ako Fe) |
| Slovakia | NPHV (priemerná) (mg/m ³) | 1.5 mg/m ³ (respirabilná frakcia) 4 mg/m ³ (inhalovateľná frakcia) |
| Slovakia | Regulatory reference | Nariadenie vlády č. 33/2018 Z.z. |
| Spain | Local name | Óxido de hierro (III) |
| Spain | VLA-ED (mg/m ³) | 5 mg/m ³ |
| Spain | Notes | (Óxido de hierro(III) (polvo y humos), como Fe) |
| Spain | Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2018. INSHT |
| Sweden | Local name | Järnoxid (som Fe) |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 3.5 mg/m ³ |
| Sweden | Anmärkning (SE) | (Järnoxid, respirabelt damm) |
| Sweden | Regulatory reference | Hygieniska gränsvärden (AFS 2018:1) |
| United Kingdom | WEL TWA (mg/m ³) | 10 mg/m ³ (Rouge, inhalable fraction) 4 mg/m ³ (Rouge, respirable fraction) 5 mg/m ³ (fume, as Fe) |
| United Kingdom | WEL STEL (mg/m ³) | 10 mg/m ³ (fume, as Fe) |
| Norway | Local name | Jern(III)oksid (beregnet som Fe) |
| Norway | Grenseverdier (AN) (mg/m ³) | 3 mg/m ³ |

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| Iron oxide red (1309-37-1) | | |
|----------------------------|--------------------------|-----------------------------------|
| Norway | Merknader (NO) | (Jern(III)oksid, beregnet som Fe) |
| Norway | Regulatory reference | FOR-2018-08-21-1255 |
| Switzerland | VME (mg/m ³) | 3 mg/m ³ |
| Switzerland | Remark | (alveolengängiger Staub) |

| Aluminum oxide (1344-28-1) | | |
|----------------------------|---|---|
| Austria | MAK (mg/m ³) | 10 mg/m ³ (gemessen als einatembarer Aerosolanteil) 5 mg/m ³ (alveolengängiger Anteil) |
| Austria | 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 | Limit value (mg/m ³) | 10 mg/m ³ |
| Belgium | Remark (BE) | (oxyde d') (en Al) |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 5 mg/m ³ (total) 2 mg/m ³ (respirabel) |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 10 mg/m ³ (total) 4 mg/m ³ (respirabel) |
| France | VME (mg/m ³) | 10 mg/m ³ |
| France | Note (FR) | (respirable aerosol) |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 3 mg/m ³ |
| Germany | TRGS 900 Remark | (gemessen als alveolengängiger Staubanteil) |
| Germany | TRGS 910 Acceptable concentration notes | |
| Hungary | AK-érték | 6 mg/m ³ |
| Hungary | Megjegyzések (HU) | (respirable aerosol) |
| Ireland | OEL (8 hours ref) (mg/m ³) | 10 mg/m ³ (total inhalable dust) 4 mg/m ³ (respirable dust) |
| Lithuania | IPRV (mg/m ³) | 2 mg/m ³ |
| Lithuania | Remark (LT) | (alveolinė frakcija. Biūrėk IX skyriaus 3 pastabà.) |
| Poland | NDS (mg/m ³) | 2.5 mg/m ³ (dymy, pyl calkowity) 1.2 mg/m ³ (dymy, pyl respirabilny) |
| Slovakia | NPHV (priemerná) (mg/m ³) | 1.5 mg/m ³ (respirabilná frakcia) 4 mg/m ³ (inhalovateľná frakcia) |
| Spain | VLA-ED (mg/m ³) | 10 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 5 mg/m ³ (inhalable aerosol) 2 mg/m ³ (respirable aerosol) |
| United Kingdom | WEL TWA (mg/m ³) | 10 mg/m ³ (inhalable aerosol) 4 mg/m ³ (respirable aerosol) |
| Norway | Grenseverdier (AN) (mg/m ³) | 10 mg/m ³ |
| Norway | Merknader (NO) | 1) |
| Switzerland | VME (mg/m ³) | 3 mg/m ³ |
| Switzerland | Remark | (respirable aerosol) |

| calcium carbonate (471-34-1) | | |
|------------------------------|---|----------------------|
| France | VME (mg/m ³) | 10 mg/m ³ |
| France | Note (FR) | inhalable aerosol |
| Germany | TRGS 910 Acceptable concentration notes | |
| Hungary | AK-érték | 10 mg/m ³ |
| Hungary | Megjegyzések (HU) | inhalable aerosol |

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| calcium carbonate (471-34-1) | | |
|------------------------------|------------------------------|--|
| Poland | NDS (mg/m ³) | 10 mg/m ³ |
| Poland | Remark (PL) | pyly |
| United Kingdom | WEL TWA (mg/m ³) | 10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol |
| Switzerland | VME (mg/m ³) | 3 mg/m ³ |
| Switzerland | Remark | (respirable aerosol) |

| Xylene (1330-20-7) | | |
|--------------------|---|---|
| EU | Local name | Xylene, mixed isomers, pure |
| EU | IOELV TWA (mg/m ³) | 221 mg/m ³ |
| EU | IOELV TWA (ppm) | 50 ppm |
| EU | IOELV STEL (mg/m ³) | 442 mg/m ³ |
| EU | IOELV STEL (ppm) | 100 ppm |
| EU | Notes | Skin |
| Austria | MAK (mg/m ³) | 221 mg/m ³ (H) |
| Austria | MAK (ppm) | 50 ppm (H) |
| Austria | MAK Short time value (mg/m ³) | 442 mg/m ³ max. 4x15 min./Schicht, (H) |
| Austria | MAK Short time value (ppm) | 100 ppm max. 4x15 min./Schicht, (H) |
| Belgium | Limit value (mg/m ³) | 221 mg/m ³ |
| Belgium | Limit value (ppm) | 50 ppm |
| Belgium | Short time value (mg/m ³) | 442 mg/m ³ |
| Belgium | Short time value (ppm) | 100 ppm |
| Belgium | Remark (BE) | D |
| Czech Republic | Local name | Xylen technická směs isomerů (všechny isomery) |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 200 mg/m ³ |
| Czech Republic | Expoziční limity (PEL) (ppm) | 46 ppm |
| Czech Republic | Expoziční limity (NPK-P) (mg/m ³) | 400 mg/m ³ |
| Czech Republic | Expoziční limity (NPK-P) (ppm) | 92 ppm |
| Czech Republic | Remark (CZ) | D,I |
| Denmark | Local name | Xylen (Dimethylbenzen), alle isomere |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 109 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (ppm) | 25 ppm |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 218 mg/m ³ |
| Denmark | Grænseværdie (kortvarig) (ppm) | 50 ppm |
| Denmark | Anmærkninger (DK) | H |
| Finland | Local name | Ksyleeni |
| Finland | HTP-arvo (8h) (mg/m ³) | 220 mg/m ³ |
| Finland | HTP-arvo (8h) (ppm) | 50 ppm |
| Finland | HTP-arvo (15 min) | 440 mg/m ³ |
| Finland | HTP-arvo (15 min) (ppm) | 100 ppm |
| Finland | Huomautus (FI) | iho |
| France | Local name | Xylène, isomères mixtes, purs |
| France | VME (mg/m ³) | 221 mg/m ³ |
| France | VME (ppm) | 50 ppm |
| France | VLE (mg/m ³) | 442 mg/m ³ |

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| Xylene (1330-20-7) | | |
|--------------------|---|---|
| France | VLE (ppm) | 100 ppm |
| Germany | TRGS 900 Local name | Xylol (alle Isomeren) |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 440 mg/m ³ |
| Germany | TRGS 900 Occupational exposure limit value (ppm) | 100 ppm |
| Germany | TRGS 900 Remark | H |
| Germany | TRGS 910 Acceptable concentration notes | |
| Hungary | Local name | XILOL(ok) |
| Hungary | AK-érték | 221 mg/m ³ |
| Hungary | CK-érték | 442 mg/m ³ |
| Ireland | OEL (8 hours ref) (mg/m ³) | 221 mg/m ³ |
| Ireland | OEL (8 hours ref) (ppm) | 50 ppm |
| Ireland | OEL (15 min ref) (mg/m ³) | 442 mg/m ³ |
| Ireland | OEL (15 min ref) (ppm) | 100 ppm |
| Ireland | Notes (IE) | Sk, IOELV |
| Italy | Local name | Xilene, isomeri misti, puro |
| Italy | OEL TWA (mg/m ³) | 221 mg/m ³ |
| Italy | OEL TWA (ppm) | 50 ppm |
| Italy | OEL STEL (mg/m ³) | 442 mg/m ³ |
| Italy | OEL STEL (ppm) | 100 ppm |
| Latvia | Local name | Ksilols (o-,m-,p-ksilols, dimetilbenzols) |
| Latvia | OEL TWA (mg/m ³) | 221 mg/m ³ |
| Latvia | OEL TWA (ppm) | 50 ppm |
| Latvia | OEL STEL (mg/m ³) | 442 mg/m ³ |
| Latvia | OEL STEL (ppm) | 100 ppm |
| Lithuania | IPRV (mg/m ³) | 200 mg/m ³ |
| Lithuania | IPRV (ppm) | 50 ppm |
| Lithuania | TPRV (mg/m ³) | 450 mg/m ³ |
| Lithuania | TPRV (ppm) | 100 ppm |
| Lithuania | Remark (LT) | O |
| Netherlands | Local name | Xyleen, o-, m-, p-isomeren |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 210 mg/m ³ |
| Netherlands | Grenswaarde TGG 8H (ppm) | 50 ppm |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 442 mg/m ³ |
| Netherlands | Remark (MAC) | (H) |
| Poland | Local name | Ksylen mieszanina izomerów: 1,2-; 1,3-; 1,4- |
| Poland | NDS (mg/m ³) | 100 mg/m ³ |
| Poland | NDSch (mg/m ³) | 350 mg/m ³ |
| Portugal | Local name | Xileno (isómeros) |
| Portugal | OEL TWA (ppm) | 100 ppm |
| Portugal | OEL STEL (ppm) | 150 ppm |
| Slovakia | Local name | Xylén, zmiešané izoméry |
| Slovakia | NPHV (priemerná) (mg/m ³) | 221 mg/m ³ (K) |
| Slovakia | NPHV (priemerná) (ppm) | 50 ppm (K) 1.5 ppm (Xylén) 2000 ppm (Suma kyselín 2,3,4-metylhippurových) |

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| Xylene (1330-20-7) | | |
|---------------------------|---|---|
| Slovakia | OEL STEL (mg/m ³) | 442 mg/m ³ |
| Slovakia | OEL STEL (ppm) | 100 ppm |
| Slovenia | Local name | ksilen (mešane izomere) |
| Slovenia | OEL TWA (mg/m ³) | 221 mg/m ³ |
| Slovenia | OEL TWA (ppm) | 50 ppm |
| Slovenia | OEL STEL (mg/m ³) | 442 mg/m ³ |
| Slovenia | OEL STEL (ppm) | 100 ppm |
| Spain | Local name | Xilenos, mezcla isómeros |
| Spain | VLA-ED (mg/m ³) | 221 mg/m ³ vía dérmica, VLB, VLI |
| Spain | VLA-ED (ppm) | 50 ppm vía dérmica, VLB, VLI 1.5 ppm (Ácidos metilhipúricos en orina; Final de la jornada laboral 2) |
| Spain | VLA-EC (mg/m ³) | 442 mg/m ³ vía dérmica, VLB, VLI |
| Spain | VLA-EC (ppm) | 100 ppm vía dérmica, VLB, VLI |
| Sweden | Local name | Xylen |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 221 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 50 ppm |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 442 mg/m ³ |
| Sweden | kortidsvärde (KTV) (ppm) | 100 ppm |
| Sweden | Anmärkning (SE) | (H) |
| United Kingdom | WEL TWA (mg/m ³) | 220 mg/m ³ (Sk) |
| United Kingdom | WEL TWA (ppm) | 50 ppm (Sk) 650 ppm (methyl hippuric acid/mol creatinine in urine, Post shift) |
| United Kingdom | WEL STEL (mg/m ³) | 441 mg/m ³ (Sk) |
| United Kingdom | WEL STEL (ppm) | 100 ppm (Sk) |
| Norway | Local name | Xylen (alle isomere) |
| Norway | Grenseverdier (AN) (mg/m ³) | 108 mg/m ³ |
| Norway | Grenseverdier (AN) (ppm) | 25 ppm |
| Norway | Merknader (NO) | H |
| Switzerland | VME (mg/m ³) | 435 mg/m ³ |
| Switzerland | MAK (ppm) | 100 ppm 1.5 ppm Methylhippur-(Tolur-)säure (urina; in caso di esposizione per molto tempo/fine dell'esposizione / del turno) 1.5 ppm xilolo (sangue; fine dell'esposizione / del turno) |
| Switzerland | KZGW (mg/m ³) | 870 mg/m ³ max. 4x30 min./turno |
| Switzerland | KZGW (ppm) | 200 ppm max. 4x30 min./turno |

| ethylbenzene (100-41-4) | | |
|--------------------------------|---------------------------------|---------------------------|
| EU | Local name | Ethylbenzene |
| EU | IOELV TWA (mg/m ³) | 442 mg/m ³ |
| EU | IOELV TWA (ppm) | 100 ppm |
| EU | IOELV STEL (mg/m ³) | 884 mg/m ³ |
| EU | IOELV STEL (ppm) | 200 ppm |
| EU | Notes | Skin |
| Austria | MAK (mg/m ³) | 440 mg/m ³ (H) |
| Austria | MAK (ppm) | 100 ppm (H) |

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| ethylbenzene (100-41-4) | | |
|-------------------------|---|---|
| Austria | MAK Short time value (mg/m ³) | 880 mg/m ³ max. 8x5 min./Schicht (gemessen als Momentanwert), (H) |
| Austria | MAK Short time value (ppm) | 200 ppm max. 8x5 min./Schicht (gemessen als Momentanwert), (H) |
| Belgium | Limit value (mg/m ³) | 442 mg/m ³ |
| Belgium | Limit value (ppm) | 100 ppm |
| Belgium | Short time value (mg/m ³) | 551 mg/m ³ |
| Belgium | Short time value (ppm) | 125 ppm |
| Belgium | Remark (BE) | D |
| Czech Republic | Local name | Ethylbenzen |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 200 mg/m ³ |
| Czech Republic | Expoziční limity (PEL) (ppm) | 46 ppm |
| Czech Republic | Expoziční limity (NPK-P) (mg/m ³) | 500 mg/m ³ |
| Czech Republic | Expoziční limity (NPK-P) (ppm) | 115 ppm |
| Czech Republic | Remark (CZ) | D |
| Denmark | Local name | Ethylbenzen |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 217 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (ppm) | 50 ppm |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 434 mg/m ³ |
| Denmark | Grænseværdie (kortvarig) (ppm) | 100 ppm |
| Denmark | Anmærkninger (DK) | K |
| Finland | Local name | Etylibentseeni |
| Finland | HTP-arvo (8h) (mg/m ³) | 220 mg/m ³ iho |
| Finland | HTP-arvo (8h) (ppm) | 50 ppm iho 5.2 ppm (Virtsan mantelihappo, Työvuoron päätyttyä työviikon tai altistusjakson loputtua) |
| Finland | HTP-arvo (15 min) | 880 mg/m ³ iho |
| Finland | HTP-arvo (15 min) (ppm) | 200 ppm iho |
| France | Local name | Ethylbenzène |
| France | VME (mg/m ³) | 88.4 mg/m ³ |
| France | VME (ppm) | 20 ppm |
| France | VLE (mg/m ³) | 442 mg/m ³ |
| France | VLE (ppm) | 100 ppm |
| France | Note (FR) | Peau |
| Germany | TRGS 900 Local name | Ethylbenzol |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 440 mg/m ³ |
| Germany | TRGS 900 Occupational exposure limit value (ppm) | 100 ppm |
| Germany | TRGS 903 Biological limit value | 1 mg/l Ethylbenzol (Blut; Expositionsende bzw. Schichtende) 800 mg/l Mandelsäure + Phenylglyoxylsäure (Urin; Expositionsende bzw. Schichtende) |
| Germany | TRGS 910 Acceptable concentration notes | |
| Hungary | Local name | ETILBENZOL |
| Hungary | AK-érték | 442 mg/m ³ |
| Hungary | CK-érték | 884 mg/m ³ |
| Ireland | OEL (8 hours ref) (mg/m ³) | 442 mg/m ³ |
| Ireland | OEL (8 hours ref) (ppm) | 100 ppm |

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| ethylbenzene (100-41-4) | | |
|-------------------------|--|---|
| Ireland | OEL (15 min ref) (mg/m ³) | 884 mg/m ³ |
| Ireland | OEL (15 min ref) (ppm) | 200 ppm |
| Italy | Local name | Etilbenzene |
| Italy | OEL TWA (mg/m ³) | 442 mg/m ³ |
| Italy | OEL TWA (ppm) | 100 ppm |
| Italy | OEL STEL (mg/m ³) | 884 mg/m ³ |
| Italy | OEL STEL (ppm) | 200 ppm |
| Latvia | Local name | Etilbenzols |
| Latvia | OEL TWA (mg/m ³) | 442 mg/m ³ |
| Latvia | OEL TWA (ppm) | 100 ppm |
| Latvia | OEL STEL (mg/m ³) | 884 mg/m ³ |
| Latvia | OEL STEL (ppm) | 200 ppm |
| Lithuania | IPRV (mg/m ³) | 442 mg/m ³ |
| Lithuania | IPRV (ppm) | 100 ppm |
| Lithuania | TPRV (mg/m ³) | 884 mg/m ³ |
| Lithuania | TPRV (ppm) | 200 ppm |
| Lithuania | Remark (LT) | O |
| Netherlands | Local name | Ethylbenzeen |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 215 mg/m ³ |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 430 mg/m ³ |
| Poland | Local name | Etylobenzen |
| Poland | NDS (mg/m ³) | 200 mg/m ³ |
| Poland | NDSch (mg/m ³) | 400 mg/m ³ |
| Portugal | Local name | Etilbenzeno |
| Portugal | OEL TWA (ppm) | 20 ppm |
| Slovakia | Local name | Etylbenzén |
| Slovakia | NPHV (priemerná) (mg/m ³) | 442 mg/m ³ (K) |
| Slovakia | NPHV (priemerná) (ppm) | 100 ppm (K) 12 ppm (2 - a 4 -Etylfenol) 1600 ppm (Kyselina mandľová a kyselina fenylglyoxylová) |
| Slovakia | OEL STEL (mg/m ³) | 884 mg/m ³ |
| Slovakia | OEL STEL (ppm) | 200 ppm |
| Slovenia | Local name | etilbenzen |
| Slovenia | OEL TWA (mg/m ³) | 442 mg/m ³ |
| Slovenia | OEL TWA (ppm) | 100 ppm |
| Slovenia | OEL STEL (mg/m ³) | 884 mg/m ³ |
| Slovenia | OEL STEL (ppm) | 200 ppm |
| Spain | Local name | Etilbenceno |
| Spain | VLA-ED (mg/m ³) | 441 mg/m ³ vía dérmica, VLB, VLI |
| Spain | VLA-ED (ppm) | 100 ppm vía dérmica, VLB, VLI 700 ppm I, S "(Suma del ácido mandélico y el ácido fenilgloxílico en orina; Final de la semana laboral 1)" |
| Spain | VLA-EC (mg/m ³) | 884 mg/m ³ vía dérmica, VLB, VLI |
| Spain | VLA-EC (ppm) | 200 ppm vía dérmica, VLB, VLI |
| Sweden | Local name | Etylbensen |

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| ethylbenzene (100-41-4) | | |
|-------------------------|---|---|
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 200 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 50 ppm |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 450 mg/m ³ |
| Sweden | kortidsvärde (KTV) (ppm) | 100 ppm |
| United Kingdom | WEL TWA (mg/m ³) | 441 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 100 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 552 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 125 ppm |
| United Kingdom | Remark (WEL) | (Sk) |
| Norway | Local name | Etylbenzen |
| Norway | Grenseverdier (AN) (mg/m ³) | 20 mg/m ³ |
| Norway | Grenseverdier (AN) (ppm) | 5 ppm |
| Norway | Merknader (NO) | HK |
| Switzerland | VME (mg/m ³) | 435 mg/m ³ |
| Switzerland | MAK (ppm) | 100 ppm 1.5 ppm Etilbenzene (sangue; fine dell'esposizione / del turno) 2 ppm Acido mandelico + acido fenilglicosilico (urina; fine dell'esposizione / del turno) |
| Switzerland | KZGW (mg/m ³) | 435 mg/m ³ |
| Switzerland | KZGW (ppm) | 100 ppm |

| 1-Butanol (71-36-3) | | |
|---------------------|---|--|
| EU | Local name | n-Butyl alcohol |
| Austria | MAK (mg/m ³) | 150 mg/m ³ |
| Austria | MAK (ppm) | 50 ppm |
| Austria | MAK Short time value (mg/m ³) | 600 mg/m ³ max. 4x15 min./Schicht |
| Austria | MAK Short time value (ppm) | 200 ppm max. 4x15 min./Schicht |
| Belgium | Limit value (mg/m ³) | 62 mg/m ³ |
| Belgium | Limit value (ppm) | 20 ppm |
| Belgium | Remark (BE) | D |
| Czech Republic | Local name | Butanol (všechny isomery) |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 300 mg/m ³ |
| Czech Republic | Expoziční limity (PEL) (ppm) | 99 ppm |
| Czech Republic | Expoziční limity (NPK-P) (mg/m ³) | 600 mg/m ³ |
| Czech Republic | Expoziční limity (NPK-P) (ppm) | 198 ppm |
| Czech Republic | Remark (CZ) | I |
| Denmark | Local name | 1-Butanol (Butylalkohol) |
| Finland | Local name | n-Butanoli |
| Finland | HTP-arvo (8h) (mg/m ³) | 150 mg/m ³ |
| Finland | HTP-arvo (8h) (ppm) | 50 ppm |
| Finland | HTP-arvo (15 min) | 230 mg/m ³ |
| Finland | HTP-arvo (15 min) (ppm) | 75 ppm |
| Finland | Huomautus (FI) | iho |
| France | Local name | Alcool n-butylique |
| France | VLE (mg/m ³) | 150 mg/m ³ |

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| 1-Butanol (71-36-3) | | |
|---------------------|---|--|
| France | VLE (ppm) | 50 ppm |
| Germany | TRGS 900 Local name | Butan-1-ol |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 310 mg/m ³ |
| Germany | TRGS 900 Occupational exposure limit value (ppm) | 100 ppm |
| Germany | TRGS 903 Biological limit value | 2 mg/g creatinine 1-Butanol (Urin; vor nachfolgender Schicht) 10 mg/g creatinine 1-Butanol (Urin; Expositionsende bzw. Schichtende) |
| Germany | TRGS 910 Acceptable concentration notes | |
| Hungary | Local name | n-BUTIL-ALKOHOL |
| Hungary | AK-érték | 45 mg/m ³ |
| Hungary | CK-érték | 90 mg/m ³ |
| Ireland | OEL (8 hours ref) (ppm) | 20 ppm |
| Ireland | Notes (IE) | SK |
| Latvia | Local name | Butilspirtī(pirmējais, otrējais,trešējais) (n-butanols, |
| Latvia | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Lithuania | IPRV (mg/m ³) | 45 mg/m ³ |
| Lithuania | IPRV (ppm) | 15 ppm |
| Lithuania | NRV (mg/m ³) | 90 mg/m ³ |
| Lithuania | NRV (ppm) | 30 ppm |
| Lithuania | Remark (LT) | Ū O |
| Poland | Local name | Butan-1-ol (n-butyłowy alkohol) |
| Poland | NDS (mg/m ³) | 50 mg/m ³ |
| Poland | NDSch (mg/m ³) | 150 mg/m ³ |
| Portugal | Local name | n-Butanol (Álcool n-butílico) |
| Portugal | OEL TWA (ppm) | 20 ppm |
| Slovakia | Local name | n-Butanol |
| Slovakia | NPHV (priemerná) (mg/m ³) | 310 mg/m ³ krátkodobý: kategória I. |
| Slovakia | NPHV (priemerná) (ppm) | 100 ppm krátkodobý: kategória I. 2 ppm (M,d) 10 ppm (M,b) |
| Slovenia | Local name | butan-1-ol |
| Slovenia | OEL TWA (mg/m ³) | 310 mg/m ³ |
| Slovenia | OEL TWA (ppm) | 100 ppm |
| Slovenia | OEL STEL (mg/m ³) | 310 mg/m ³ |
| Slovenia | OEL STEL (ppm) | 100 ppm |
| Spain | Local name | n-Butanol (Alcohol n-butílico) |
| Spain | VLA-EC (mg/m ³) | 154 mg/m ³ |
| Spain | VLA-EC (ppm) | 50 ppm |
| Spain | Notes | vía dérmica, |
| Sweden | Local name | n-Butanol |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 45 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 15 ppm |
| Sweden | takgränsvärde (TGV) (mg/m ³) | 90 mg/m ³ |
| Sweden | takgränsvärde (TGV) (ppm) | 30 ppm |
| Sweden | Anmärkning (SE) | H |

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| 1-Butanol (71-36-3) | | |
|---------------------|---|-----------------------|
| United Kingdom | WEL STEL (mg/m ³) | 154 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 50 ppm |
| United Kingdom | Remark (WEL) | (Sk) |
| Norway | Local name | Butan-1-ol |
| Norway | Grenseverdier (Takverdi) (mg/m ³) | 75 mg/m ³ |
| Norway | Grenseverdier (Takverdi) (ppm) | 25 ppm |
| Norway | Merknader (NO) | H |
| Switzerland | VME (mg/m ³) | 150 mg/m ³ |
| Switzerland | MAK (ppm) | 50 ppm |
| Switzerland | KZGW (mg/m ³) | 150 mg/m ³ |
| Switzerland | KZGW (ppm) | 50 ppm |

| titanium dioxide (13463-67-7) | | |
|-------------------------------|---|--|
| EU | Local name | Titanium dioxide |
| Austria | MAK (mg/m ³) | 5 mg/m ³ (alveolengängiger Anteil) |
| Austria | MAK Short time value (mg/m ³) | 10 mg/m ³ max. 2x60 min./Schicht (alveolengängiger Anteil) |
| Belgium | Limit value (mg/m ³) | 10 mg/m ³ |
| Belgium | Remark (BE) | (dioxyde de) |
| Denmark | Local name | Titandioxid |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 6 mg/m ³ |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 12 mg/m ³ |
| France | Local name | Titane (dioxyde de), en Ti |
| France | VME (mg/m ³) | 10 mg/m ³ |
| France | Note (FR) | inhalable aerosol |
| Germany | TRGS 900 Local name | Titandioxid |
| Germany | TRGS 910 Acceptable concentration notes | |
| Ireland | OEL (8 hours ref) (mg/m ³) | 10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust |
| Latvia | Local name | Titānadioksīds |
| Latvia | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Lithuania | IPRV (mg/m ³) | 5 mg/m ³ |
| Portugal | Local name | Dióxido de titânio |
| Portugal | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Slovakia | Local name | Oxid titaničitý |
| Slovakia | NPHV (priemerná) (mg/m ³) | 5 mg/m ³ |
| Spain | Local name | Dióxido de titanio |
| Spain | VLA-ED (mg/m ³) | 10 mg/m ³ |
| Spain | Notes | inhalable aerosol |
| Sweden | Local name | Titandioxid |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 5 mg/m ³ |
| Sweden | Anmärkning (SE) | total dust, 1 |
| United Kingdom | WEL TWA (mg/m ³) | 10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol |
| Norway | Local name | Titandioksid |
| Norway | Grenseverdier (AN) (mg/m ³) | 5 mg/m ³ |

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| titanium dioxide (13463-67-7) | | |
|-------------------------------|--------------------------|----------------------|
| Switzerland | VME (mg/m ³) | 3 mg/m ³ |
| Switzerland | Remark | (respirable aerosol) |

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

None under normal use.

Eye protection:

None under normal use

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Wear appropriate mask. EN 12083

Consumer exposure controls:

Keep out of reach of children.

Other information:

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | : Liquid |
| Appearance | : Solid marker containing liquid colored paint. |
| 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 | : 21 - 55 °C |
| Boiling point | : > 35 °C |
| Flash point | : 27.5 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Flammable liquid and vapour. |
| Vapour pressure | : < 110 kPa |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : insoluble in water. |
| 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 |
| Lower explosive limit (LEL) | : 1.2 vol % |
| Upper explosive limit (UEL) | : 7.5 vol % |

9.2. Other information

VOC content : ≈ 50 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

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10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong bases. Strong oxidizers. Strong acids.

10.6. Hazardous decomposition products

May release flammable gases. Burning produces irritating, toxic and noxious fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Butyl acetate (123-86-4)

| | |
|----------------------------|---------------|
| LD50 oral rat | 10760 mg/kg |
| LD50 dermal rabbit | > 14112 mg/kg |
| LC50 inhalation rat (mg/l) | > 21 mg/l/4h |

Benzaldehyde (100-52-7)

| | |
|--------------------|--------------|
| LD50 oral rat | 1430 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |

D-Limonène (5989-27-5)

| | |
|--------------------|--------------|
| LD50 oral rat | > 4400 mg/kg |
| LD50 oral | > 2000 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |

Carbon black (1333-86-4)

| | |
|----------------------------|-----------------------------|
| LD50 oral rat | > 8000 mg/kg |
| LC50 inhalation rat (mg/l) | > 4.6 mg/m ³ 4 h |

2-methoxy-1-methylethyl acetate (108-65-6)

| | |
|---------------------------|--------------|
| LD50 oral rat | 8532 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 inhalation rat (ppm) | 4345 ppm 6 h |

2-methoxypropyl acetate (70657-70-4)

| | |
|---------------------------|--------------|
| LC50 inhalation rat (ppm) | 2700 ppm 6 h |
|---------------------------|--------------|

Magnesium oxide (1309-48-4)

| | |
|---------------|-------------------|
| LD50 oral rat | 3870 - 3990 mg/kg |
|---------------|-------------------|

Iron oxide red (1309-37-1)

| | |
|----------------------------|---------------|
| LD50 oral rat | > 10000 mg/kg |
| LD50 dermal rat | 5500 mg/kg |
| LC50 inhalation rat (mg/l) | 5.05 mg/l/4h |

Aluminum oxide (1344-28-1)

| | |
|----------------------------|---------------|
| LD50 oral rat | > 15900 mg/kg |
| LC50 inhalation rat (mg/l) | 7.6 mg/l/4h |

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calcium carbonate (471-34-1)

| | |
|----------------------------|--------------|
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | > 3 mg/l/4h |

Xylene (1330-20-7)

| | |
|---------------|--------------|
| LD50 oral rat | > 3500 mg/kg |
|---------------|--------------|

ethylbenzene (100-41-4)

| | |
|---------------------------|------------|
| LD50 oral rat | 3500 mg/kg |
| LD50 dermal rabbit | 17.8 ml/kg |
| LC50 inhalation rat (ppm) | < 1500 ppm |

titanium dioxide (13463-67-7)

| | |
|----------------------------|----------------|
| LD50 oral rat | > 5000 mg/kg |
| LC50 inhalation rat (mg/l) | > 6.82 mg/l/4h |

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

: 1.02% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
1.02% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
1.02% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Skin corrosion/irritation

: Not classified

Additional information

: Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation

: Not classified

Respiratory or skin sensitisation

: Not classified

Germ cell mutagenicity

: Not classified

Carcinogenicity

: Not classified.

D-Limonène (5989-27-5)

| | |
|------------|----------------------|
| IARC group | 3 - Not classifiable |
|------------|----------------------|

Carbon black (1333-86-4)

| | |
|------------|--|
| IARC group | 2B - Possibly carcinogenic to humans, Inhalation of dust |
|------------|--|

Silicon dioxide (cristobalite) (14808-60-7)

| | |
|------------|----------------------------|
| IARC group | 1 - Carcinogenic to humans |
|------------|----------------------------|

Iron oxide red (1309-37-1)

| | |
|------------|----------------------|
| IARC group | 3 - Not classifiable |
|------------|----------------------|

Xylene (1330-20-7)

| | |
|------------|----------------------|
| IARC group | 3 - Not classifiable |
|------------|----------------------|

ethylbenzene (100-41-4)

| | |
|------------|--------------------------------------|
| IARC group | 2B - Possibly carcinogenic to humans |
|------------|--------------------------------------|

titanium dioxide (13463-67-7)

| | |
|------------|--------------------------------------|
| IARC group | 2B - Possibly carcinogenic to humans |
|------------|--------------------------------------|

titanium dioxide (13463-67-7)

| | |
|---|------------------------|
| NOAEL (chronic, oral, animal/male, 2 years) | 5 mg/kg bodyweight rat |
|---|------------------------|

Reproductive toxicity

: Not classified

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D-Limonène (5989-27-5)

| | |
|-----------------------------|-----------------------|
| LOAEL (animal/male, F0/P) | 500 (500 - 600) mg/kg |
| LOAEL (animal/female, F0/P) | 500 (500 - 600) mg/kg |

STOT-single exposure : May cause drowsiness or dizziness.
STOT-repeated exposure : Not classified

Benzaldehyde (100-52-7)

| | |
|----------------------------|--------------------------|
| NOAEL (oral, rat, 90 days) | 400 mg/kg bodyweight/day |
|----------------------------|--------------------------|

D-Limonène (5989-27-5)

| | |
|--|----------------------------------|
| NOAEL (subacute, oral, animal/male, 28 days) | 825 mg/kg bodyweight |
| NOAEL (subacute, oral, animal/female, 28 days) | 1650 mg/kg bodyweight |
| NOAEL (subchronic, oral, animal/male, 90 days) | 500 (100 - 600) mg/kg bodyweight |
| NOAEL (subchronic, oral, animal/female, 90 days) | 500 (100 - 600) mg/kg bodyweight |

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No ecotoxicological data about this product are known.
Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Not classified

D-Limonène (5989-27-5)

| | |
|----------------|------------------------------|
| LC50 fish 1 | < 1 mg/l Pimephales promelas |
| EC50 Daphnia 1 | < 1 mg/l |

2-methoxy-1-methylethyl acetate (108-65-6)

| | |
|----------------|-----------------|
| LC50 fish 1 | 100 - 180 mg/l |
| EC50 Daphnia 1 | > 500 mg/l 48 h |
| ErC50 (algae) | > 1000 mg/l |

Magnesium oxide (1309-48-4)

| | |
|----------------|-----------|
| LC50 fish 1 | 1355 mg/l |
| EC50 Daphnia 1 | 190 mg/l |

Iron oxide red (1309-37-1)

| | |
|----------------|------------|
| EC50 Daphnia 1 | > 100 mg/l |
|----------------|------------|

Aluminum oxide (1344-28-1)

| | |
|----------------|-----------|
| EC50 Daphnia 1 | 1470 mg/l |
| NOEC (acute) | 50 mg/l |

calcium carbonate (471-34-1)

| | |
|----------------|-------------------|
| LC50 fish 1 | > 100 % v/v, 96 h |
| EC50 Daphnia 1 | > 100 % v/v, 48 h |

ethylbenzene (100-41-4)

| | |
|--------------------------------|----------|
| LC50 fish 1 | 5.1 mg/l |
| EC50 other aquatic organisms 1 | 7.7 mg/l |

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| | |
|--------------|----------|
| NOEC (acute) | 3.3 mg/l |
|--------------|----------|

12.2. Persistence and degradability

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| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

D-Limonène (5989-27-5)

| | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

Carbon black (1333-86-4)

| | |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
|-------------------------------|----------------------------|

2-methoxy-1-methylethyl acetate (108-65-6)

| | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

| | |
|----------------|-----------|
| Biodegradation | 89 % 10 d |
|----------------|-----------|

ethylbenzene (100-41-4)

| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

12.3. Bioaccumulative potential

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| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

D-Limonène (5989-27-5)

| | |
|-------------------------------------|----------------|
| Bioconcentration factor (BCF REACH) | 1022 estimated |
|-------------------------------------|----------------|

| | |
|---------|------|
| Log Kow | 4.38 |
|---------|------|

| | |
|---------------------------|----------------------------|
| Bioaccumulative potential | Bioaccumulative potential. |
|---------------------------|----------------------------|

2-methoxy-1-methylethyl acetate (108-65-6)

| | |
|---------|------|
| Log Pow | 0.43 |
|---------|------|

Xylene (1330-20-7)

| | |
|------------|----------|
| BCF fish 1 | 1.3 mg/l |
|------------|----------|

| | |
|---------------------------|--------------------------------|
| Bioaccumulative potential | Not expected to bioaccumulate. |
|---------------------------|--------------------------------|

ethylbenzene (100-41-4)

| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

12.4. Mobility in soil

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| | |
|----------------|--------------------------------------|
| Ecology - soil | No additional information available. |
|----------------|--------------------------------------|

12.5. Results of PBT and vPvB assessment

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| |
|-----------------------|
| PBT: not yet assessed |
|-----------------------|

| |
|------------------------|
| vPvB: not yet assessed |
|------------------------|

12.6. Other adverse effects

Additional information : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : For disposal within the EC, the appropriate code according to the European Waste

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HP Code

Catalogue (EWC) should be used.
20 01 27* - paint, inks, adhesives and resins containing dangerous substances

: HP3 - "Flammable:"
— flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
— flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
— flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
— flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
— water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
— other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.

HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : UN 1263
UN-No. (IMDG) : UN 1263
UN-No. (IATA) : UN 1263
UN-No. (ADN) : UN 1263
UN-No. (RID) : UN 1263

14.2. UN proper shipping name

Proper Shipping Name (ADR) : PAINT
Proper Shipping Name (IMDG) : PAINT
Proper Shipping Name (IATA) : PAINT
Proper Shipping Name (ADN) : PAINT
Proper Shipping Name (RID) : PAINT
Transport document description (ADR) : UN 1263 PAINT, 3, III, (D/E)
Transport document description (IMDG) : UN 1263 PAINT, 3, III
Transport document description (IATA) : UN 1263 PAINT, 3, III
Transport document description (ADN) : UN 1263 PAINT, 3, III
Transport document description (RID) : UN 1263 PAINT, 3, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3

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ADN

Transport hazard class(es) (ADN) : 3

Danger labels (ADN) : 3



RID

Transport hazard class(es) (RID) : 3

Danger labels (RID) : 3



14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

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

Classification code (ADR) : F1

Hazard identification number (Kemler No.) : 30

Orange plates :



Tunnel restriction code (ADR) : D/E

EAC code : •3YE

- Transport by sea

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-E

Stowage category (IMDG) : A

Properties and observations (IMDG) : Miscibility with water depends upon the composition.

- Air transport

Special provisions (IATA) : A3, A72, A192

ERG code (IATA) : 3L

- Inland waterway transport

Classification code (ADN) : F1

- Rail transport

Classification code (RID) : F1

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

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

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.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

VOC content : ≈ 50 %

15.1.2. National regulations

Germany

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

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 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : 2-methoxypropyl acetate, Silicon dioxide (cristobalite) are listed

SZW-lijst van mutagene stoffen : 2-methoxypropyl acetate 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 : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : 2-methoxypropyl acetate, Xylene are listed

Denmark

Class for fire hazard : Class II-1

Store unit : 5 liter

Classification remarks : R10 <H226;H336>; Emergency management guidelines for the storage of flammable liquids must be followed

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

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Classification.

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 |

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| | |
|--|------------------------------------|
| | 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: | |
|-------------------------------------|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| 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 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Carc. 1A | Carcinogenicity (inhalation) Category 1A |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Repr. 1B | Reproductive toxicity, 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, Narcosis |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H350i | May cause cancer by inhalation. |
| H351 | Suspected of causing cancer. |
| H360D | May damage the unborn child. |
| 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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| | | |
|--|--|-----------------------|
| H411 | Toxic to aquatic life with long lasting effects. | |
| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | |
| Flam. Liq. 3 | H226 | On basis of test data |
| STOT SE 3 | H336 | Calculation method |

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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